

Table S1.

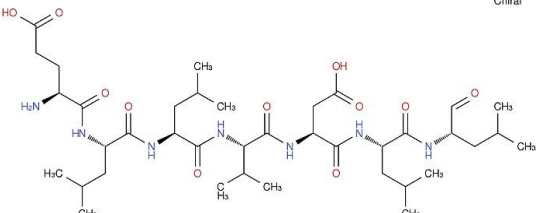
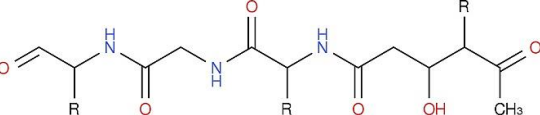
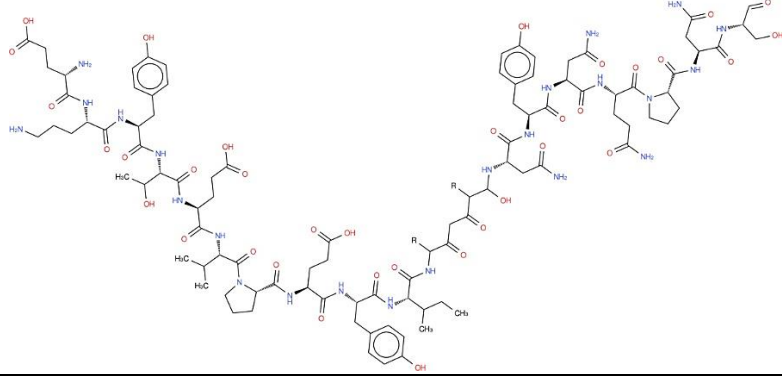
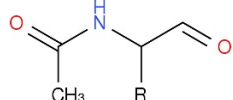
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CAU B946</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85884	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137829	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41109	-	-
Cluster 9	Transatpks	95444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

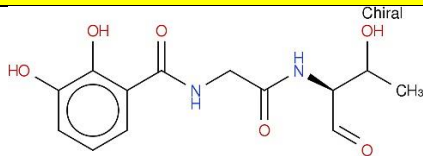
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CAU B946</b>				
Cluster 10	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

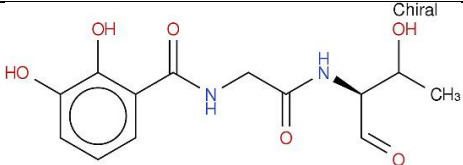
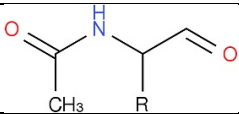
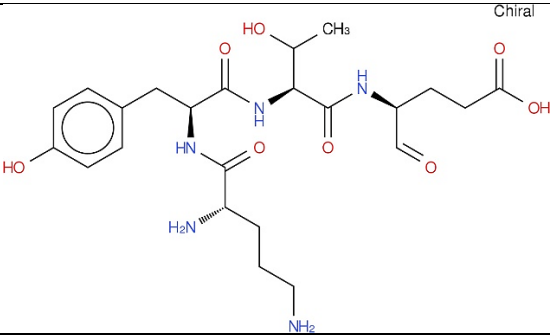
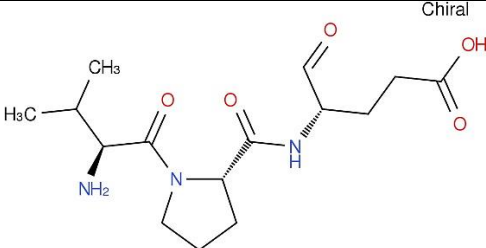
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>M27</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	51793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	T3pks	41109	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Nrps	22704	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 7	Nrps	14947	Fengycin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 8	Nrps	10147	Fengycin biosynthetic gene cluster (13% of genes show similarity)	

Table S1. Continued.

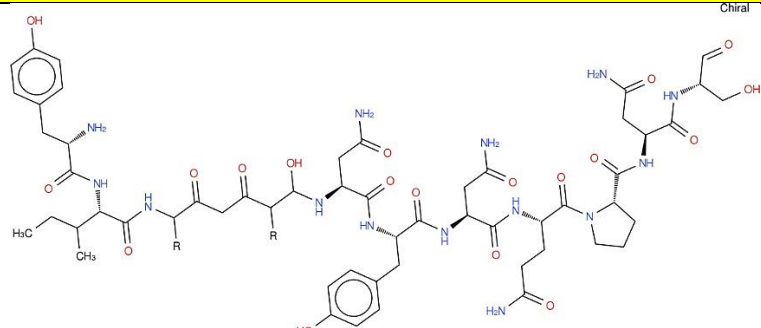
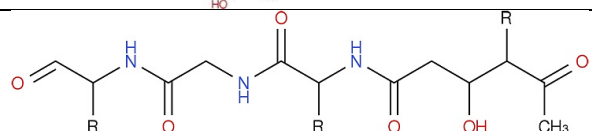
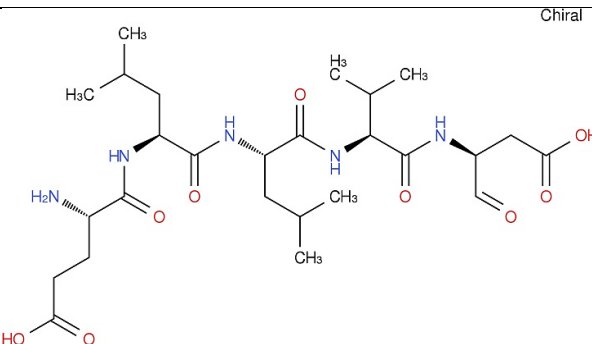
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>M27</b>				
Cluster 9	Nrps-Transatpks	87564	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 10	Transatpks-Nrps	102707	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks	85802	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 12	Lantipeptide	28889	-	-
Cluster 13	Terpene	20740	-	-
Cluster 14	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 15	Nrps	25161	Surfactin biosynthetic gene cluster (34% of genes show similarity)	-
Cluster 16	Nrps	38342	Surfactin biosynthetic gene cluster (52% of genes show similarity)	



Table S1. Continued.

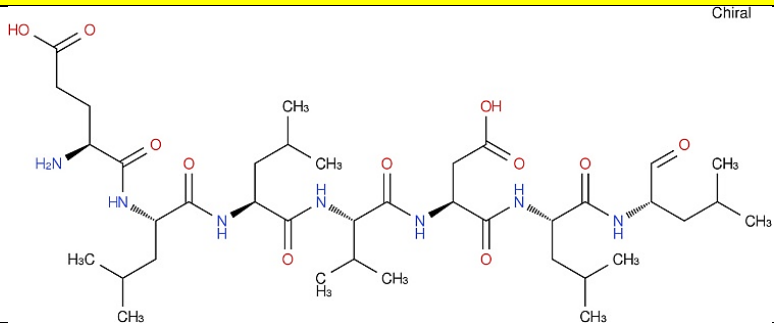
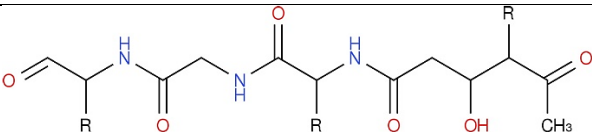
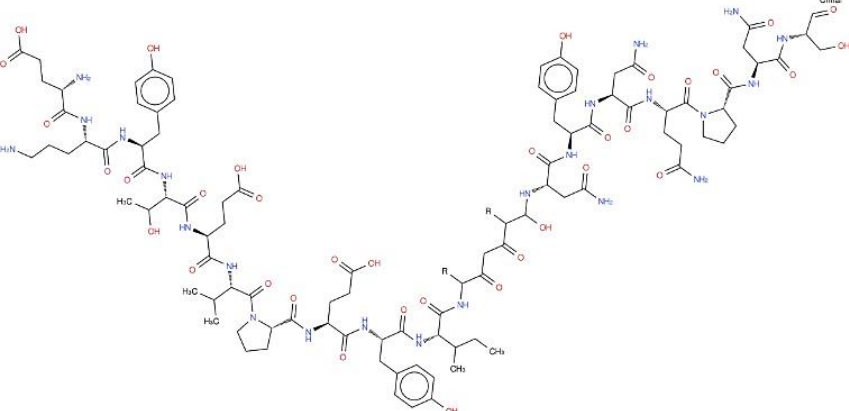
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AS43.3</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Ladderane	41217	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85896	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102678	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	139085	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

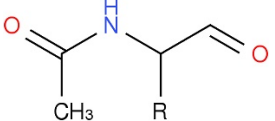
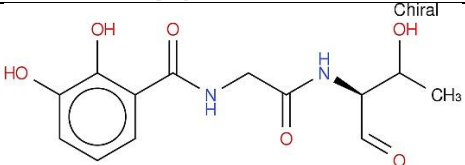
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AS43.3</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41109	-	-
Cluster 10	Transatpks	100449	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66790	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

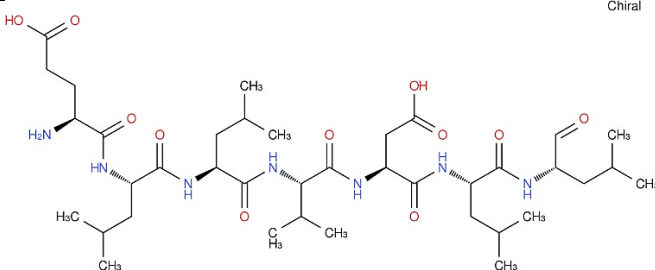
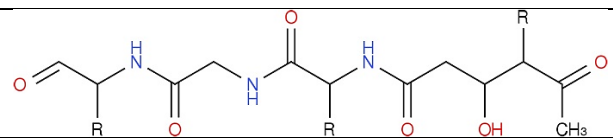
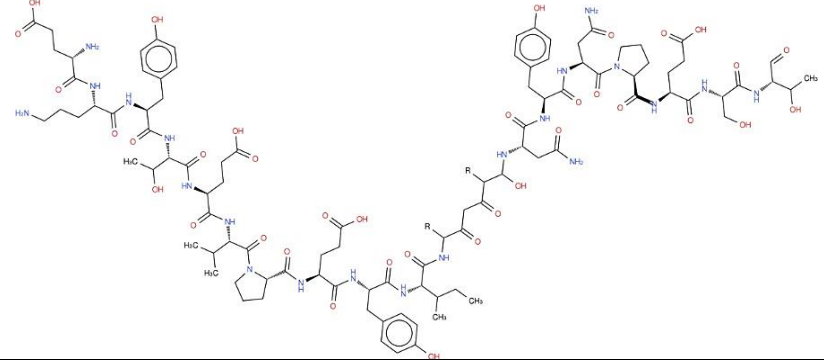
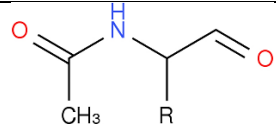
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FZB42</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	-	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137825	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41109	-	-
Cluster 9	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

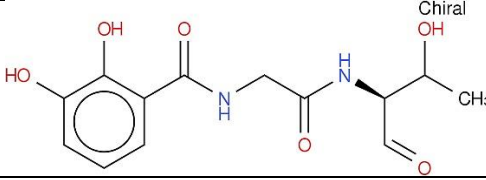
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FZB42</b>				
Cluster 10	Nrps	55810	-	-
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 The chemical structure of Bacillibactin is shown. It consists of a 3,4,5-trihydroxybenzoyl group (a benzene ring with three hydroxyl groups at positions 3, 4, and 5) linked via an amide bond to a 2-amino-3-oxopropyl chain. This chain is further linked via another amide bond to a chiral center (a carbon atom bonded to a hydrogen atom, a hydroxyl group, a methyl group, and a 2-oxoethyl group). The chiral center is labeled 'Chiral' and 'OH'.
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

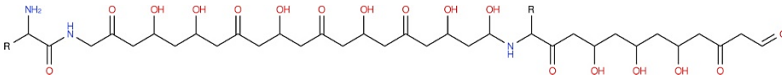
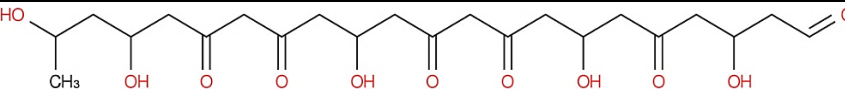
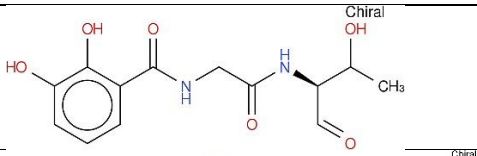
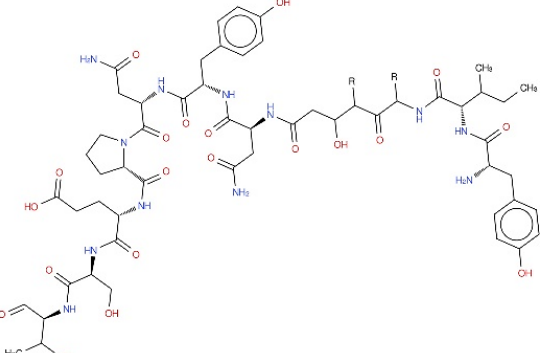
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AQGM01000001</b>				
Cluster 1	Nrps	23248	-	-
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	100101	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks	45842	Difficidin biosynthetic gene cluster (53% of genes show similarity)	-
Cluster 7	T3pks	41109	-	-
Cluster 8	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Phosphonate	40902	-	-
Cluster 10	Bacteriocin-Nrps	51536	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks-Nrps	88037	Fengycin biosynthetic gene cluster (86% of genes show similarity)	

Table S1. Continued.

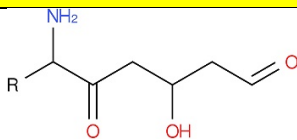
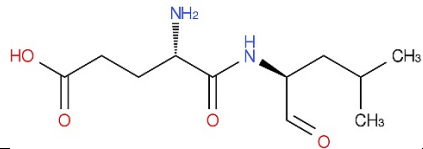
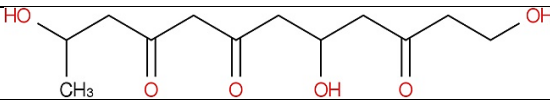
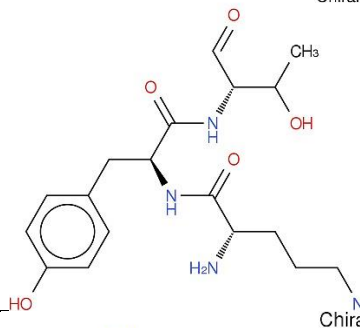
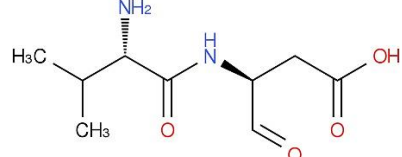
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AQGM01000001</b>				
Cluster 12	Transatpks	28292	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 13	Nrps	28032	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 14	Terpene	21883	-	-
Cluster 15	Nrps	21780	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 16	Transatpks	23101	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 17	Nrps	15078	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 18	Nrps	13069	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	9559	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

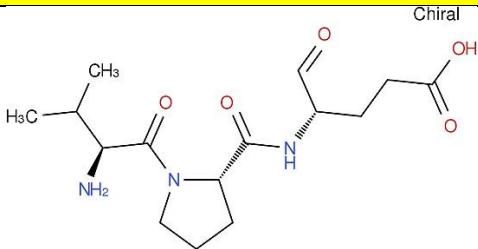
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AQGM01000001</b>				
Cluster 20	Nrps	9098	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 21	Nrps	6895	-	-
Cluster 22	Nrps	6499	-	-

Table S1. Continued.

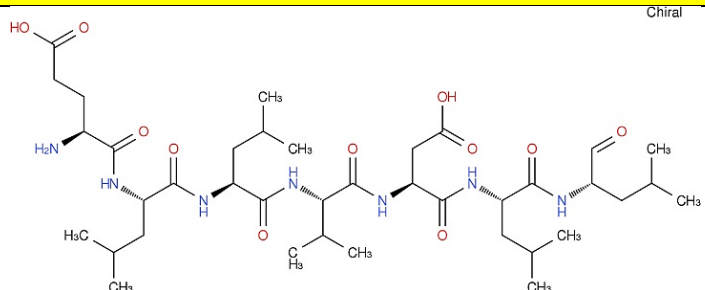
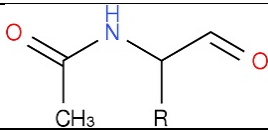
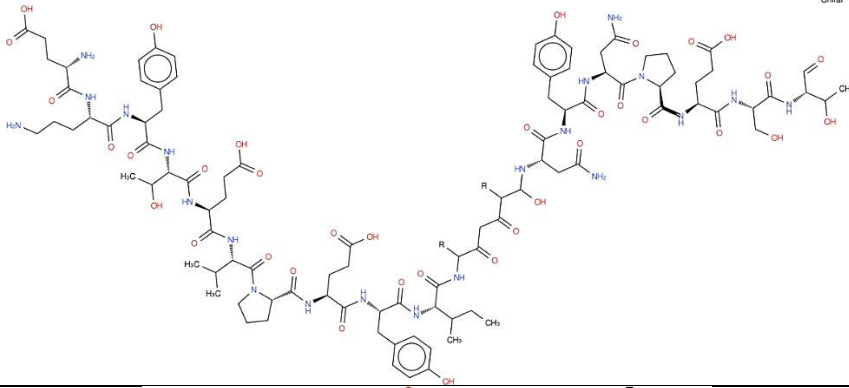
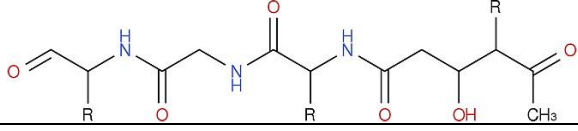
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NAU-B3</b>				
Cluster 1	Nrps	65408	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Phosphonate	40902	-	-
Cluster 3	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	T3pks	41109	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Transatpks-Nrps	137831	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (92% of genes show similarity)	
Cluster 8	Transatpks	78518	Macrolactin biosynthetic gene cluster (90% of genes show similarity)	-



Table S1. Continued.

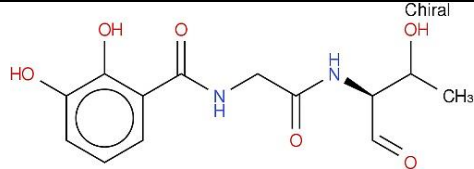
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NAU-B3</b>				
Cluster 9	Terpene	20740	-	-
Cluster 10	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 11	Bacteriocin-Nrps	66795	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65342	-	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

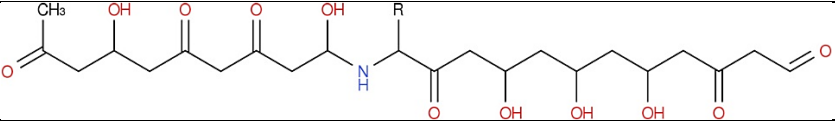
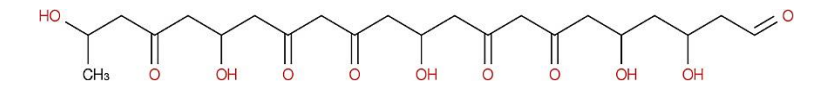
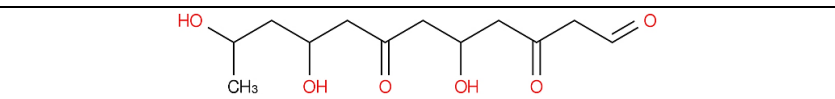
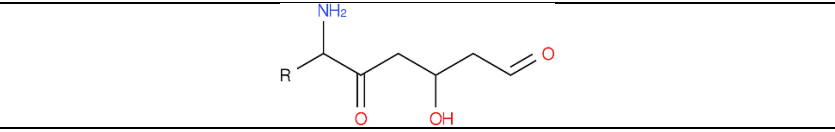
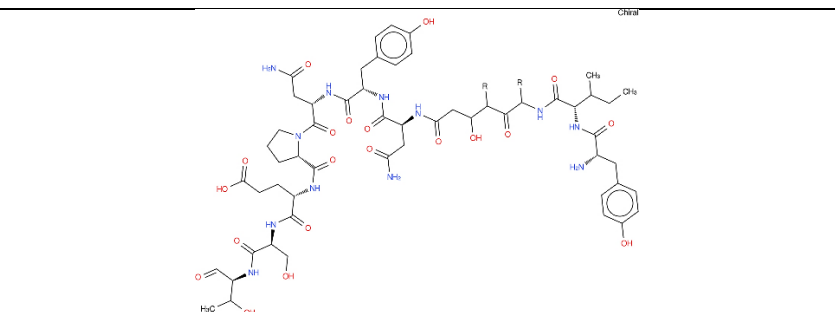
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SK19.001</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Transatpks-Nrps	82374	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Lantipeptide	28889	-	-
Cluster 7	Terpene	21883	-	-
Cluster 8	Transatpks	45822	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 9	Transatpks	28322	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 10	Nrps	25189	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 11	Nrps-Transatpks	87842	Fengycin biosynthetic gene cluster (80% of genes show similarity)	

Table S1. Continued.

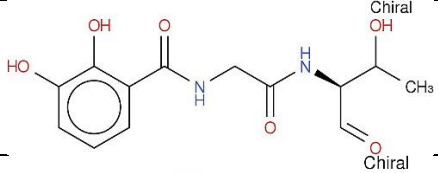
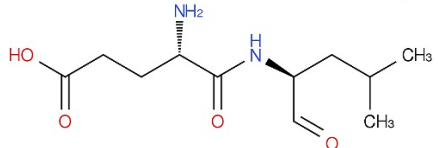
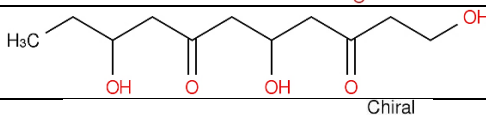
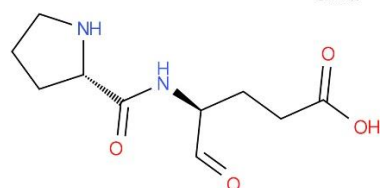
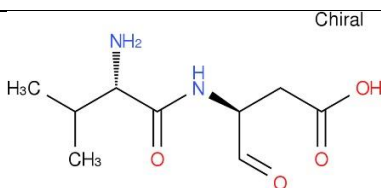
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SK19.001</b>				
Cluster 12	Bacteriocin-Nrps	51522	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Nrps	27628	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 14	Transatpk	23032	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 15	Nrps	21896	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 16	Nrps	14781	Plipastatin biosynthetic gene cluster (38% of genes show similarity)	-
Cluster 17	Nrps	8947	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 18	Bacteriocin	6571	-	-
Cluster 19	Nrps	1883	-	-

Table S1. Continued.

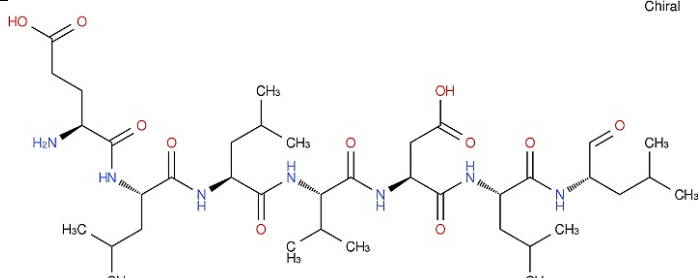
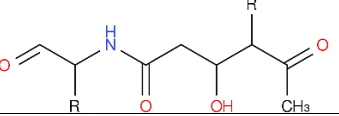
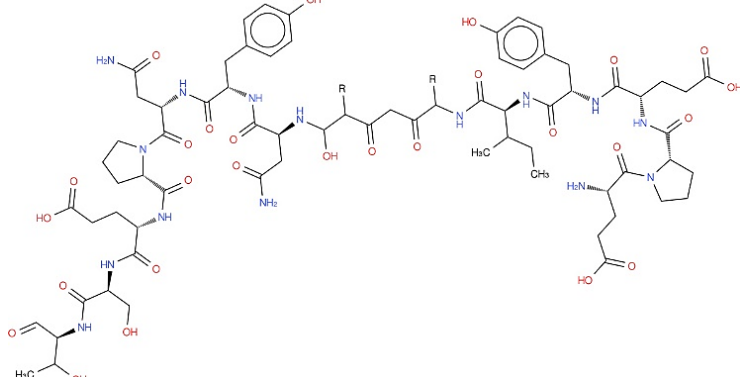
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>9912D</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28889	Micrococcin P1 biosynthetic gene cluster (8% of genes show similarity)	-
Cluster 5	Transatpk	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpk-Nrps	83665	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpk-Nrps	136487	Fengycin biosynthetic gene cluster (93% of genes show similarity)	

Table S1. Continued.

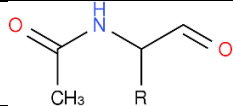
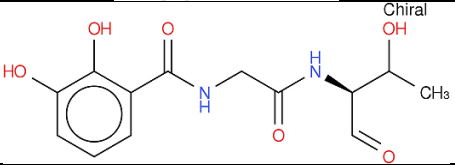
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>9912D</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

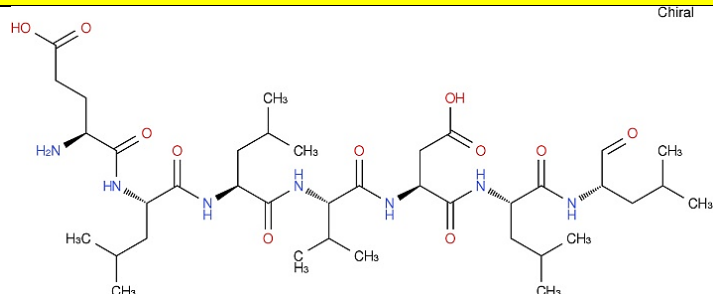
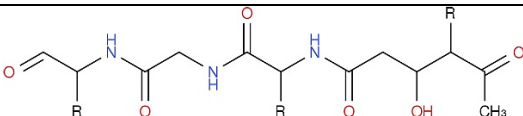
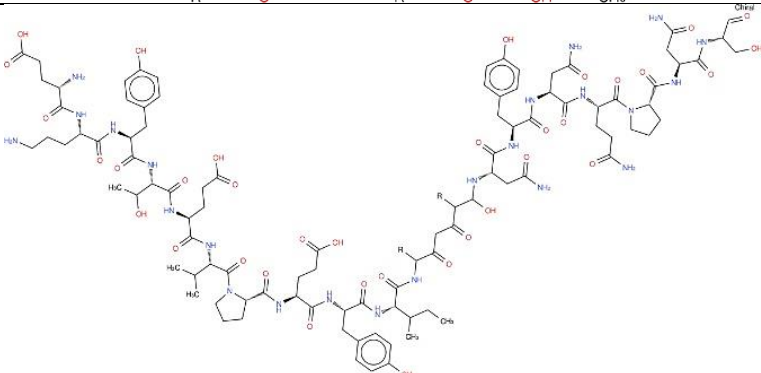
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JJ-D34</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Thiopeptide	45069	Kijanamicin biosynthetic gene cluster (4% of genes show similarity)	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137832	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

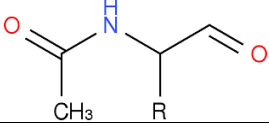
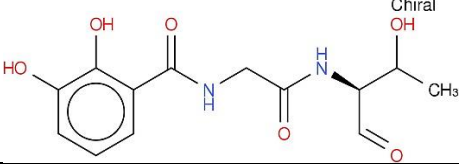
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JJ-D34</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41109	-	-
Cluster 10	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

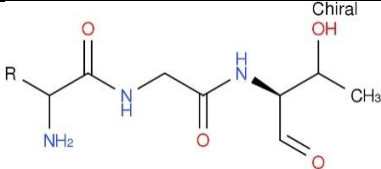
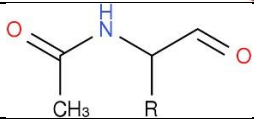
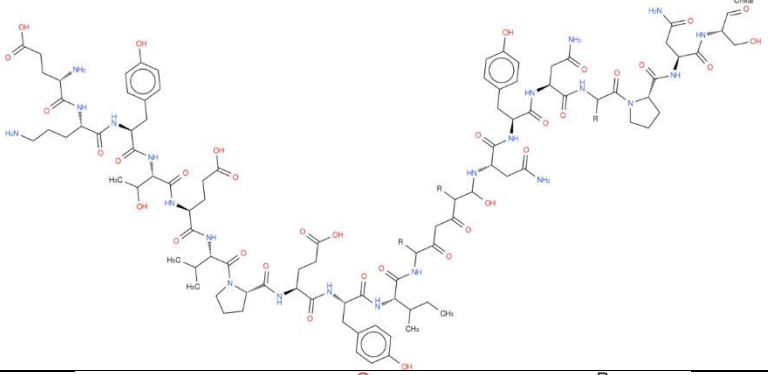
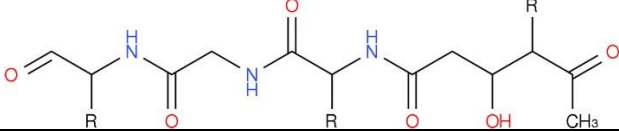
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CBMB205_complete</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	T3pks	41100	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Transatpks-Nrps	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Lantipeptide	28888	-	-
Cluster 10	Terpene	20740	-	-



Table S1. Continued.

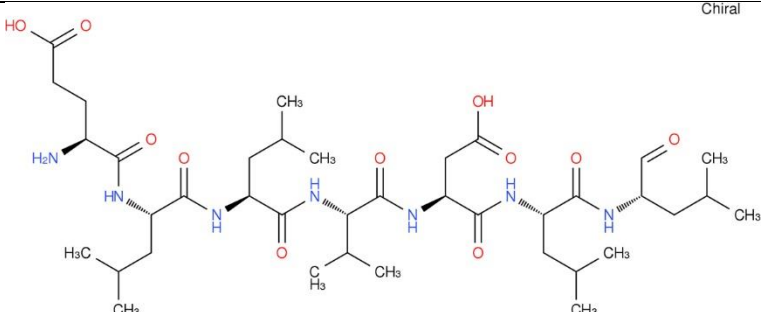
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CBMB205_complete</b>				
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	

Table S1. Continued.

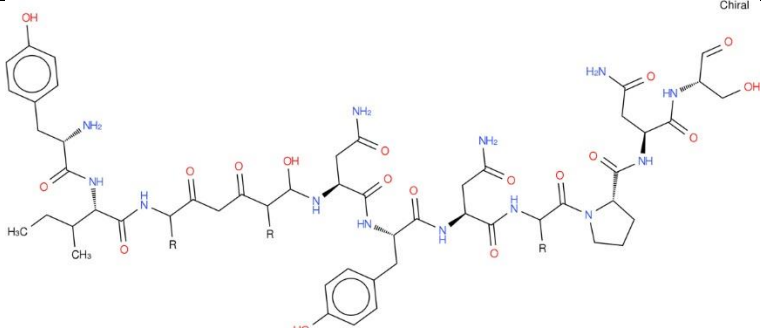
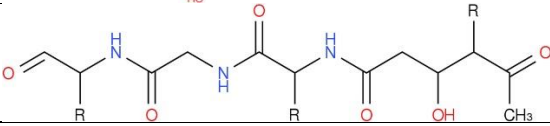
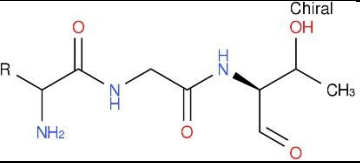
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CBMB205_assembly</b>				
Cluster 1	Transatpks-Nrps	87730	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Lantipeptide	28888	-	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 7	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 8	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Nrps	22185	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 10	Terpene	21883	-	-
Cluster 11	T3pks	41100	-	-

Table S1. Continued.

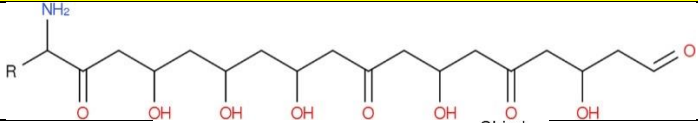
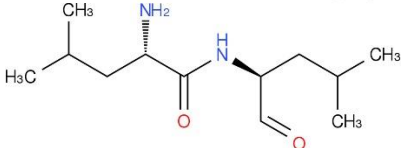
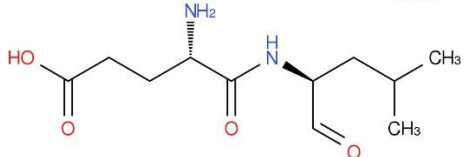
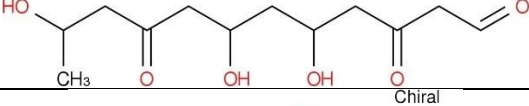
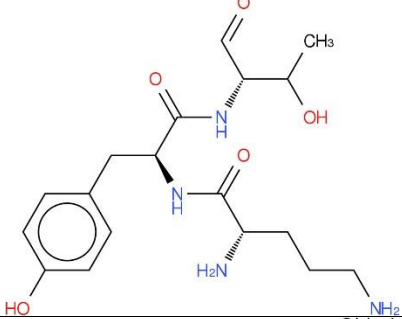
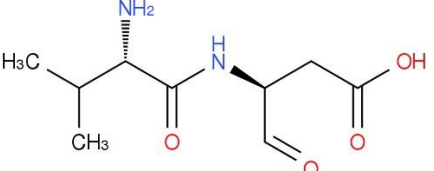
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CBMB205_assembly</b>				
Cluster 12	Transatpks	75784	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 13	Nrps	26566	Surfactin biosynthetic gene cluster (39% of genes show similarity)	
Cluster 14	Nrps	28255	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 15	Transatpks	24565	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 16	Nrps	13586	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 17	Nrps	10519	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

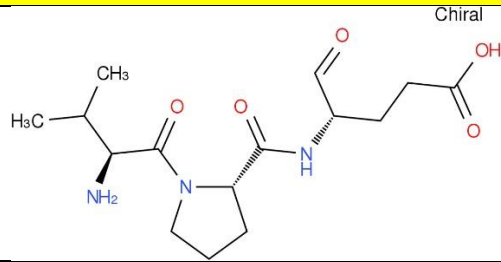
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CBMB205_assembly</b>				
Cluster 18	Nrps	10053	Fengycin biosynthetic gene cluster (13% of genes show similarity)	

Table S1. Continued.

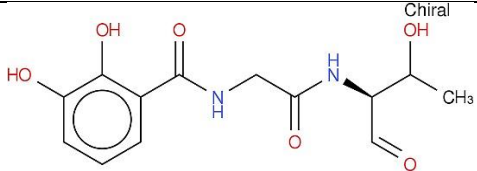
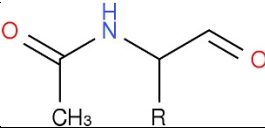
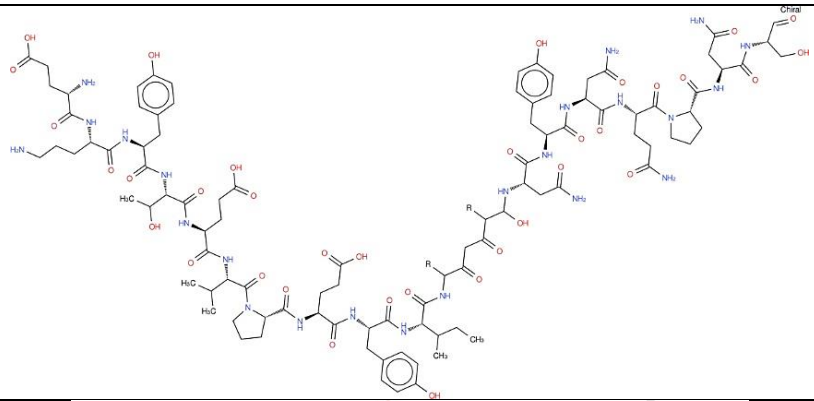
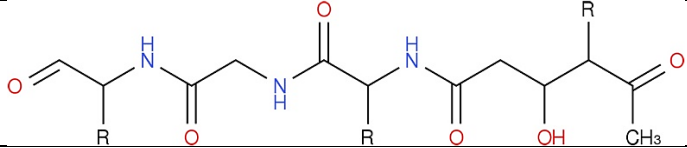
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FKM10</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	51791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	T3pks	41109	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Nrps-Transatpks	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks	85905	Macrolactin biosynthetic gene cluster (90% of genes show similarity)	-
Cluster 9	Lantipeptide	28888	-	-

Table S1. Continued.

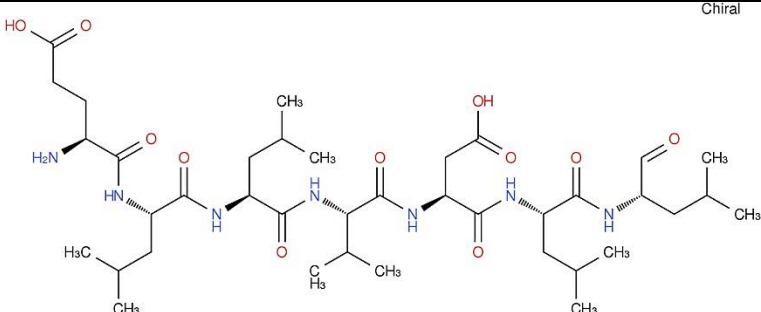
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FKM10</b>				
Cluster 10	Terpene	20740	-	-
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	

Table S1. Continued.

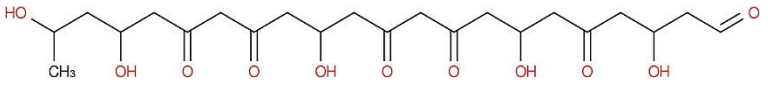
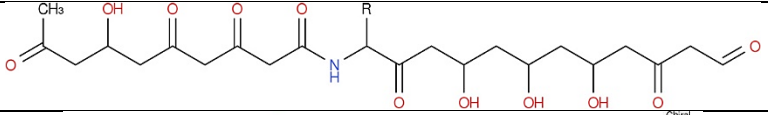
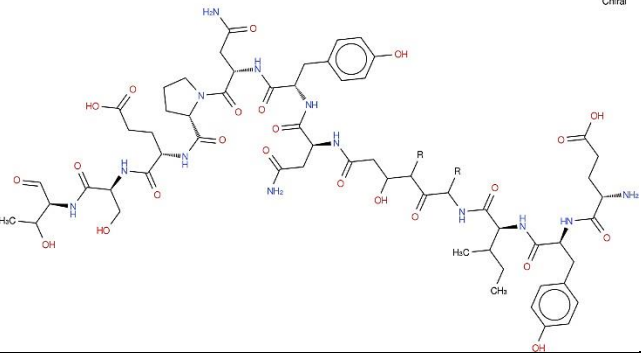
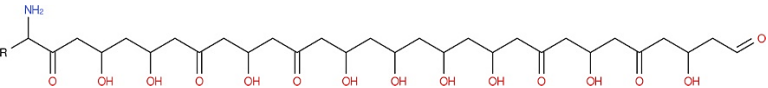
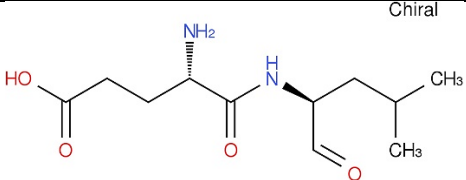
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>K26</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	82375	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	111670	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 5	Terpene	21883	-	-
Cluster 6	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Lantipeptide	28889	-	-
Cluster 8	Terpene	20740	-	-
Cluster 9	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 10	Nrps	27949	Surfactin biosynthetic gene cluster (47% of genes show similarity)	

Table S1. Continued.

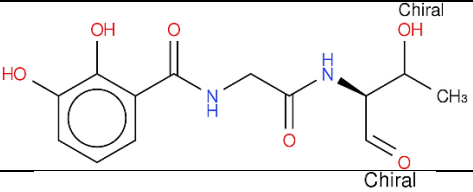
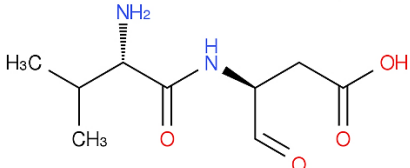
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>K26</b>				
Cluster 11	Nrps	26083	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 12	Ladderane	41217	-	-
Cluster 13	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 14	Nrps	10159	Surfactin biosynthetic gene cluster (8% of genes show similarity)	



Table S1. Continued.

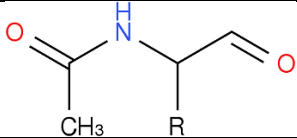
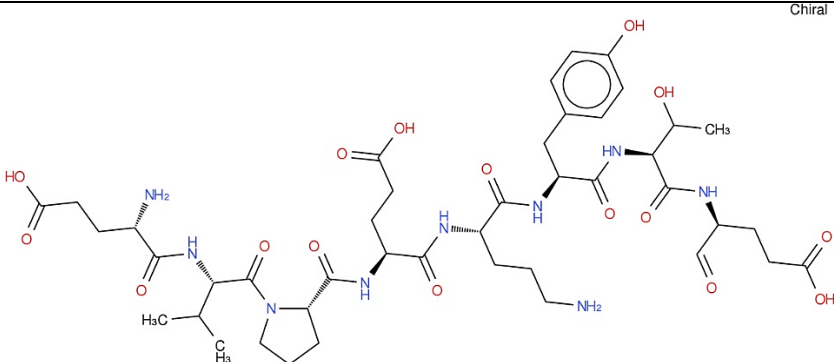
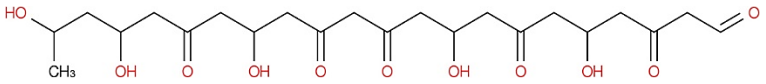
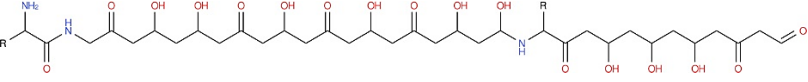
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>B26</b>				
Cluster 1	Transatpks	75787	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 2	T3pks	41109	-	-
Cluster 3	Terpene	21883	-	-
Cluster 4	Nrps	48404	Plipastatin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 5	Nrps	24757	-	-
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Terpene	20740	-	-
Cluster 8	Transatpks	85896	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Nrps-Transatpks	102689	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Nrps-Transatpks	88616	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 11	Nrps	35338	-	-

Table S1. Continued.

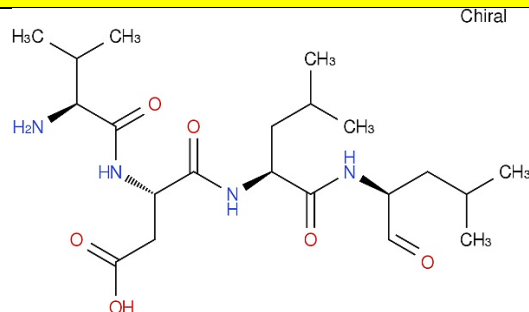
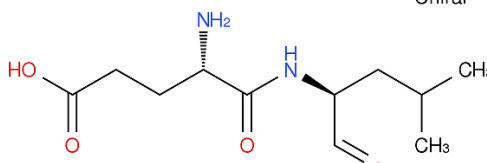
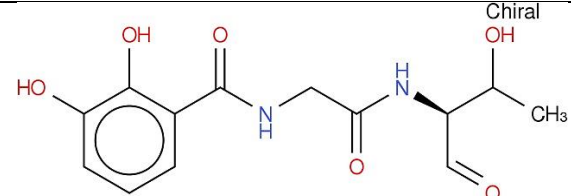
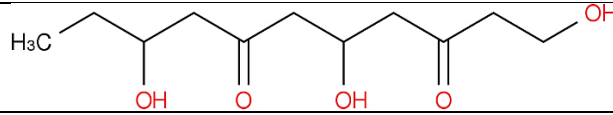
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>B26</b>				
Cluster 12	Nrps	37080	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 13	Nrps	28237	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 14	Bacteriocin-Nrps	51794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 16	Transatpks	24629	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 17	Nrps	7256	-	-

Table S1. Continued.

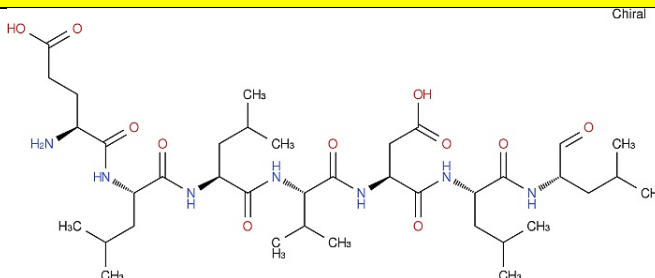
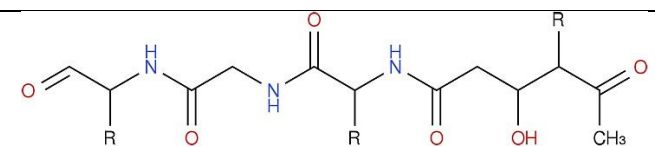
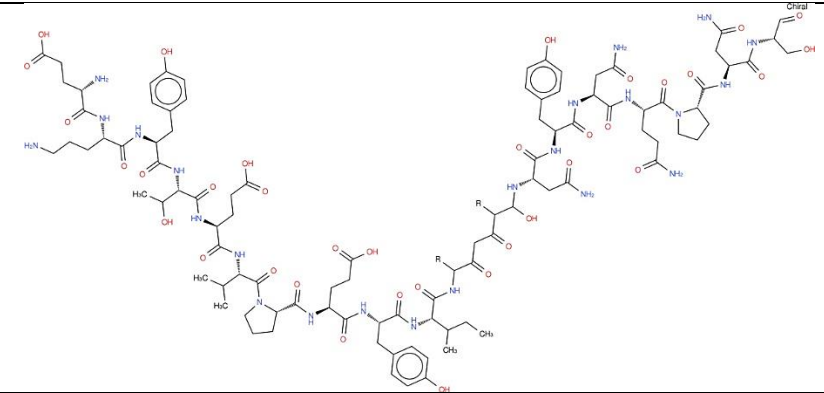
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>LS69</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28888	-	-
Cluster 5	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Nrps-Transatpks	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps-Transatpks	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41109	-	-

Table S1. Continued.

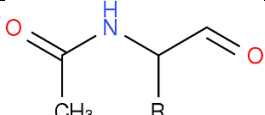
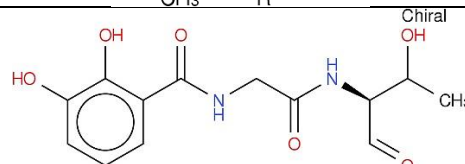
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>LS69</b>				
Cluster 10	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

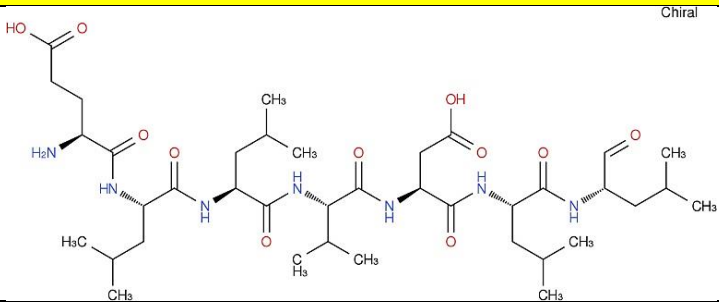
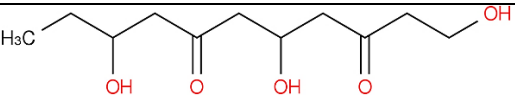
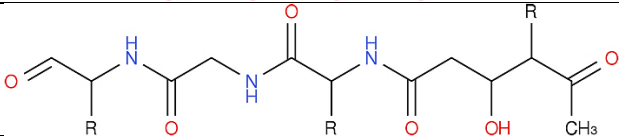
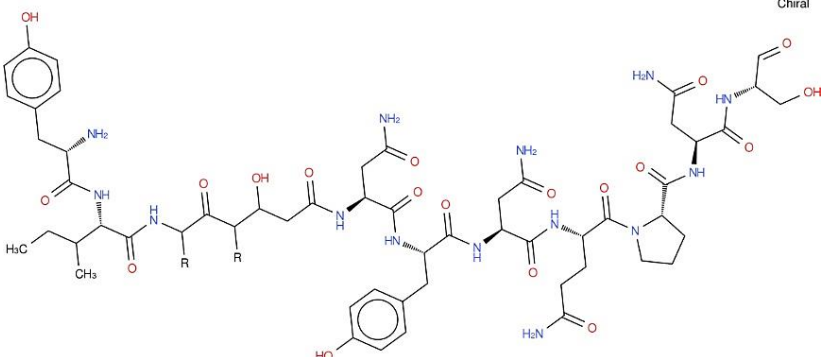
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>RC218</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Transatpks	24266	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102695	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Terpene	20740	-	-
Cluster 7	Transatpks-Nrps	88755	Fengycin biosynthetic gene cluster (86% of genes show similarity)	

Table S1. Continued.

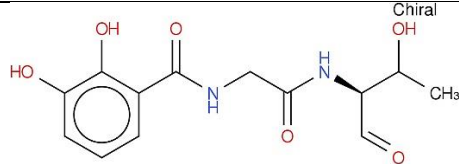
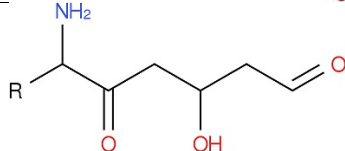
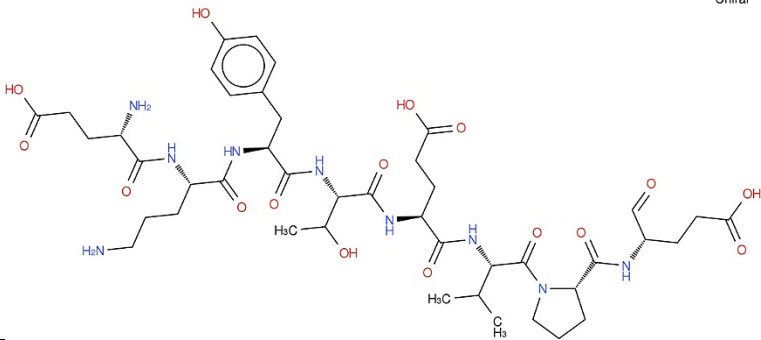
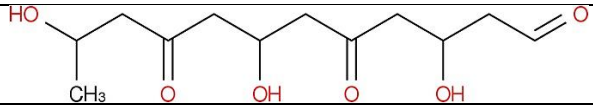
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>RC218</b>				
Cluster 8	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Lantipeptide	27056	Subtilin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Bacteriocin-Nrps	51792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks	28662	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 12	Nrps	49224	Plipastatin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 13	Terpene	21883	-	-
Cluster 14	T3pks	41109	-	-
Cluster 15	Transatpks	46720	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

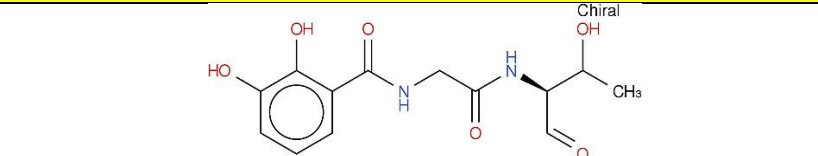
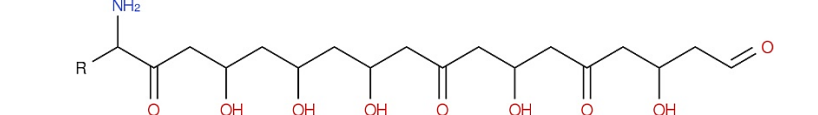
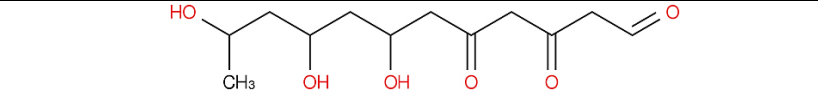
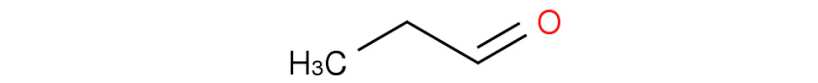
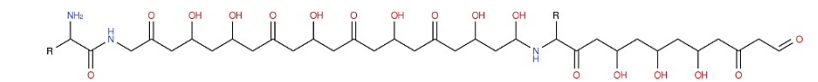
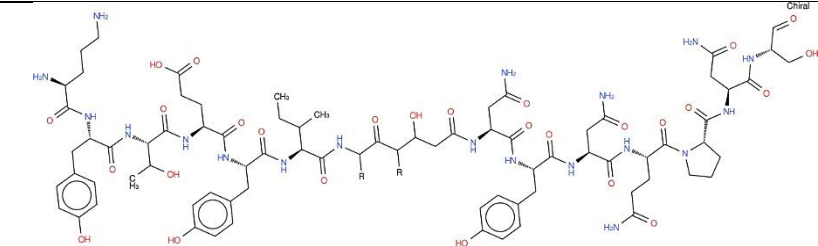
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP183</b>				
Cluster 1	Bacteriocin-Nrps	51792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks	75784	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 3	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Transatpks	46090	Myxovirescin biosynthetic gene cluster (17% of genes show similarity)	
Cluster 5	Transatpks-T1pks	30008	Thiomarinol biosynthetic gene cluster (5% of genes show similarity)	
Cluster 6	Transatpks-T1pks	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-T1pks	103075	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 8	Transatpks	68255	Macrolactin biosynthetic gene cluster (80% of genes show similarity)	-
Cluster 9	Terpene	20740	-	-
Cluster 10	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-

Table S1. Continued.

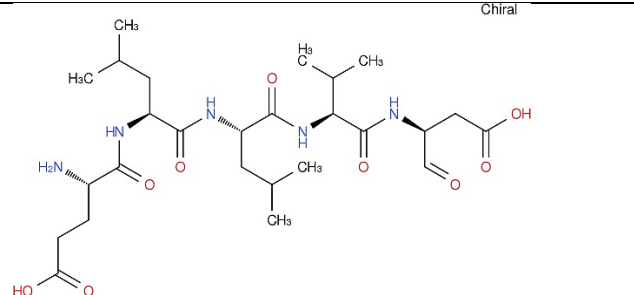
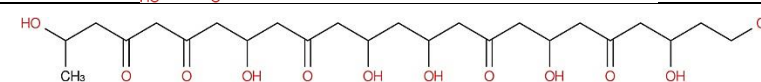
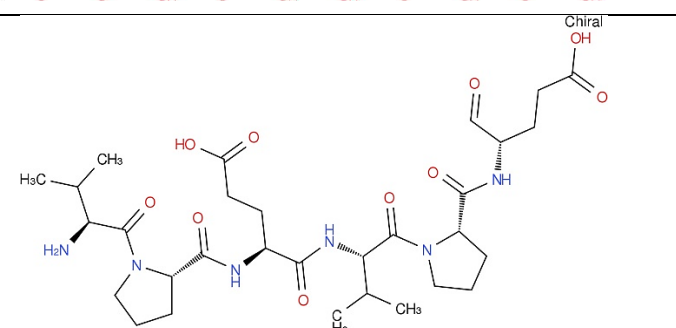
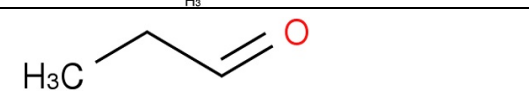
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP183</b>				
Cluster 11	Nrps	25177	Surfactin biosynthetic gene cluster (43% of genes show similarity)	-
Cluster 12	Nrps	38360	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 13	Transatpks	47375	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 14	Nrps	19928	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 15	Transatpks	8122	Bryostatin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 16	T3pks	26386	-	-
Cluster 17	Terpene	21883	-	-



Table S1. Continued.

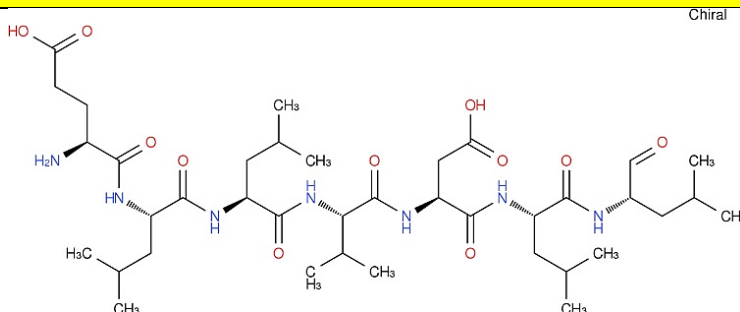
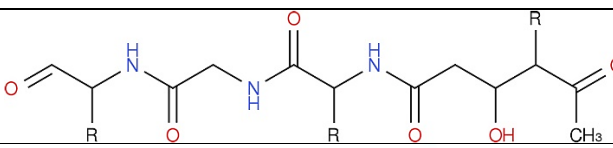
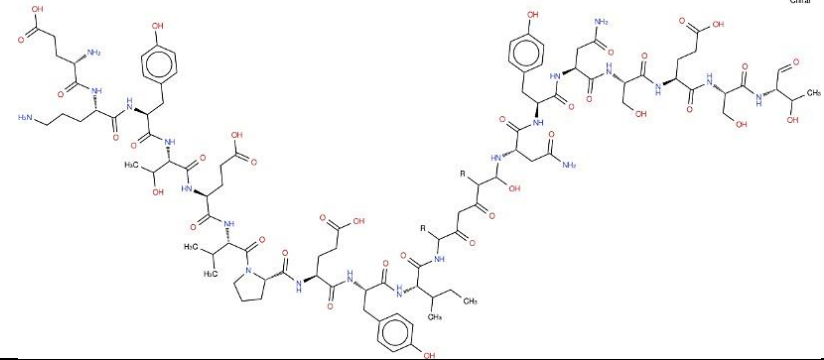
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>G341</b>				
Cluster 5	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Lantipeptide-Terpene	45895	-	-
Cluster 4	Transatpks	85893	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Nrps-Transatpks	102698	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Nrps-Transatpks	139131	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41109	-	-

Table S1. Continued.

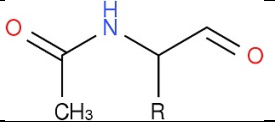
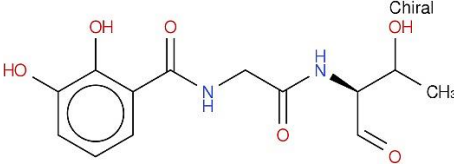
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>G341</b>				
Cluster 9	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP194</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Transatpks	85893	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	45699	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 4	Lantipeptide	27137	Haloduracin alpha / haloduracin beta biosynthetic gene cluster (40% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	85704	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	T3pks	41100	-	-
Cluster 7	Nrps	23938	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	-
Cluster 8	Terpene	21883	-	-
Cluster 9	Transatpks	30074	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 10	Transatpks	24406	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 11	Nrps	13196	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

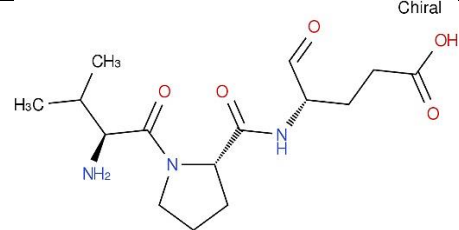
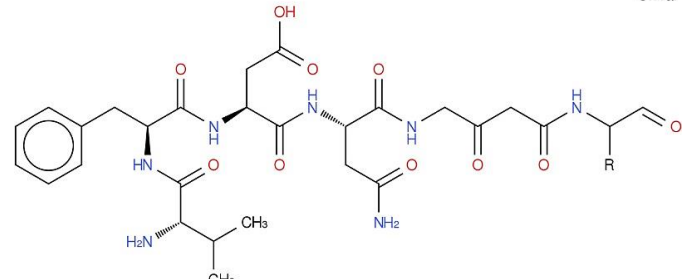
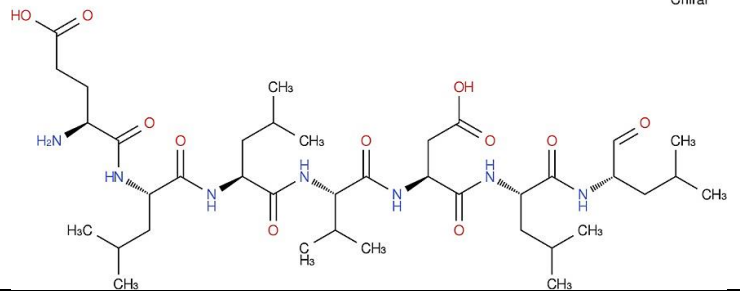
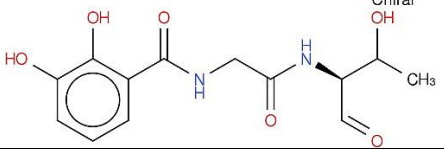
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP194</b>				
Cluster 12	Nrps	9648	Fengycin biosynthetic gene cluster (13% of genes show similarity)	 <p>Chiral</p>
Cluster 13	Transatpks-Nrps	77730	Rhizoctin biosynthetic gene cluster (16% of genes show similarity)	 <p>Chiral</p>
Cluster 14	Nrps	65413	Surfactin biosynthetic gene cluster (91% of genes show similarity)	 <p>Chiral</p>
Cluster 15	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 16	Terpene	20740	-	-
Cluster 17	Bacteriocin-Nrps	66789	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chiral</p>

Table S1. Continued.

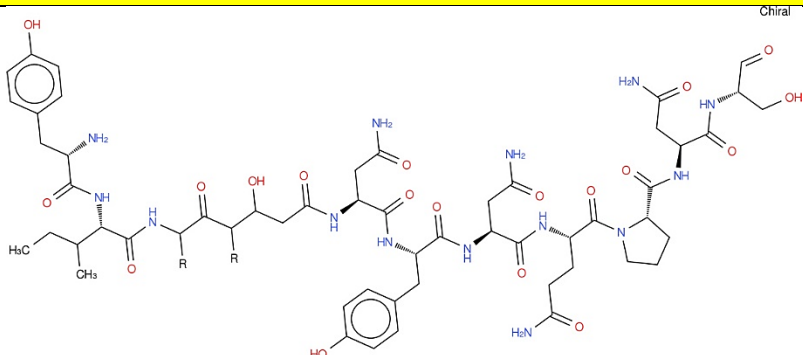
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP194</b>				
Cluster 18	Nrps- Transatpks	87890	Fengycin biosynthetic gene cluster (80% of genes show similarity)	

Table S1. Continued.

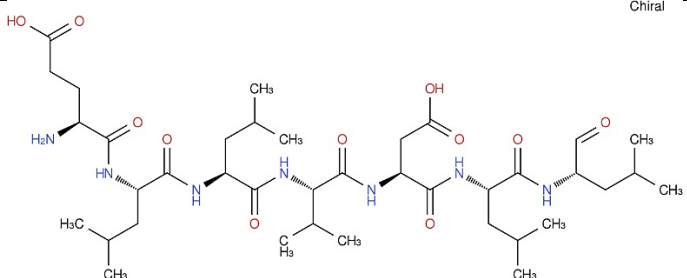
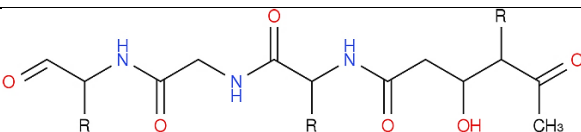
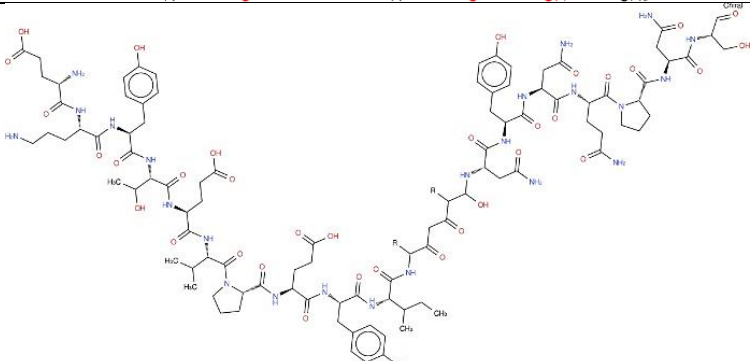
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>B25</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Thiopeptide	45069	Kijanamicin biosynthetic gene cluster (4% of genes show similarity)	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28676	-	-
Cluster 6	Transatpks	85869	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102704	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137827	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

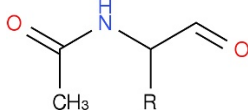
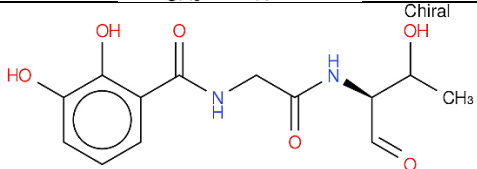
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>B25</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41109	-	-
Cluster 11	Transatpks	100438	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

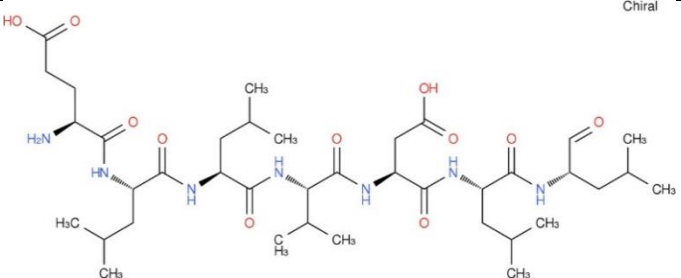
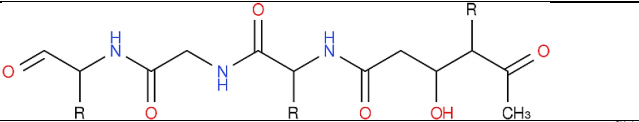
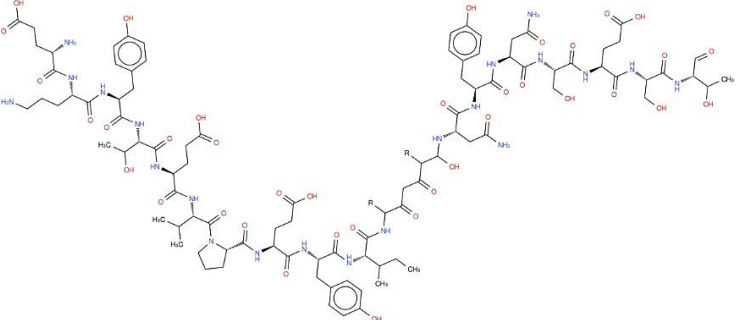
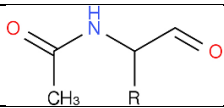
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>D2-2</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102698	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137962	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41100	-	-
Cluster 9	Transatpks	98975	Difficidin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

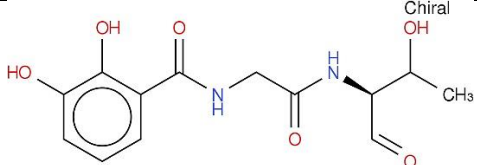
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>D2-2</b>				
Cluster 10	Bacteriocin-Nrps	66796	Bacillibactin biosynthetic genecluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 12	Thiopeptide	29487	-	-

Table S1. Continued.

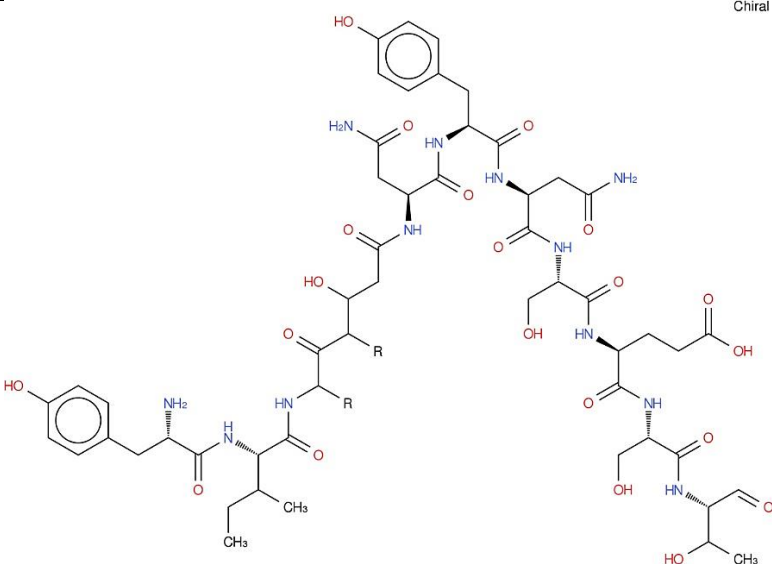
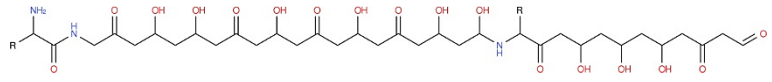
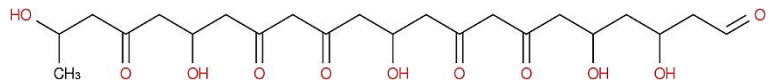
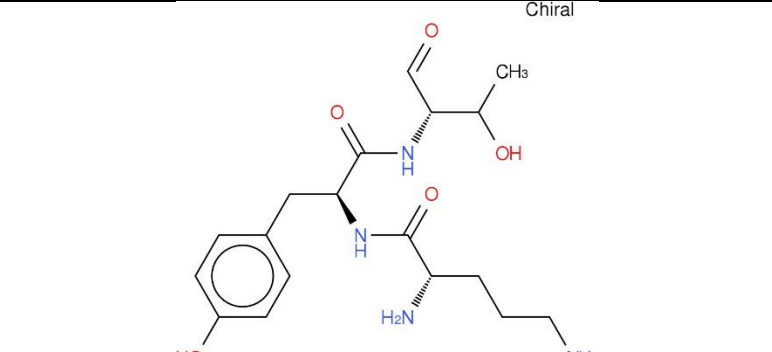
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 18228</b>				
Cluster 1	Transatpks-Nrps	88593	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102686	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	85907	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Nrps	14235	Fengycin biosynthetic gene cluster (26% of genes show similarity)	

Table S1. Continued.

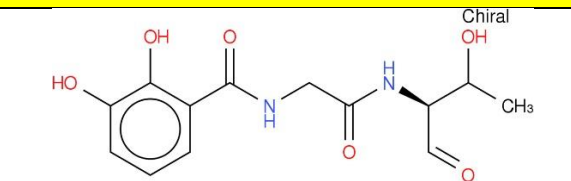
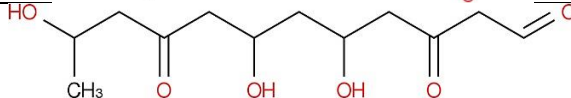
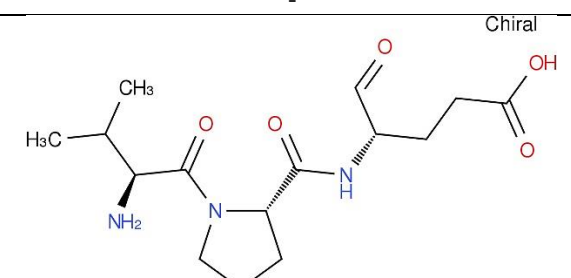
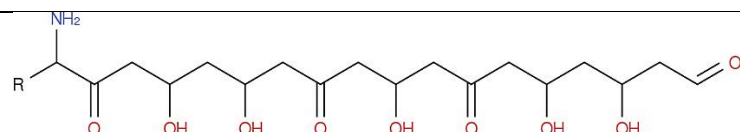
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 18228</b>				
Cluster 5	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks	46832	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 7	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 8	Terpene	20740	-	-
Cluster 9	Nrps	11190	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 10	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 11	Transatpks	53381	Difficidin biosynthetic gene cluster (60% of genes show similarity)	
Cluster 12	T3pks	41109	-	-
Cluster 13	Nrps	22464	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 14	Thiopeptide-Lantipeptide	26819	-	-

Table S1. Continued.

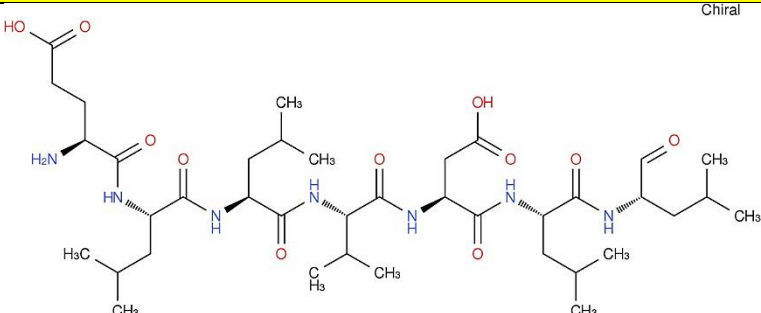
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 18228</b>				
Cluster 15	Nrps	65410	Surfactin biosynthetic gene cluster (82% of genes show similarity)	 <p>Chiral</p>

Table S1. Continued.

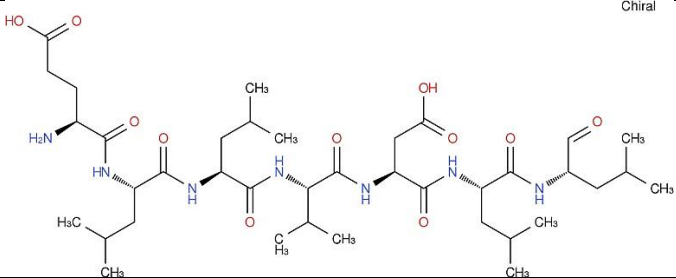
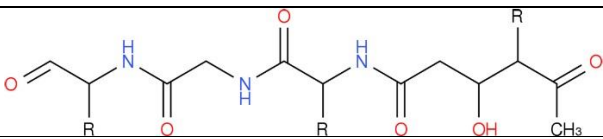
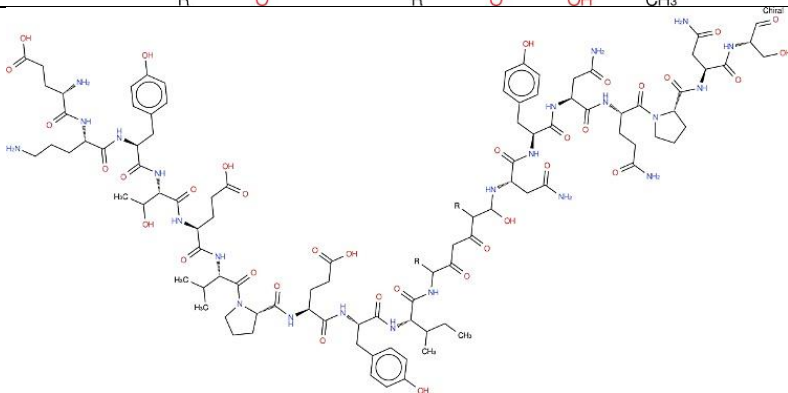
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>S3-1</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28888	-	-
Cluster 5	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41109	-	-

Table S1. Continued.

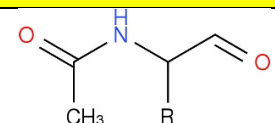
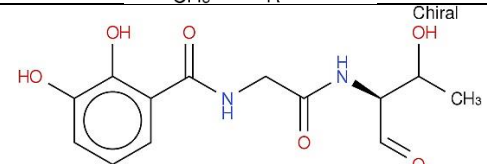
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>S3-1</b>				
Cluster 10	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 18	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 19	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

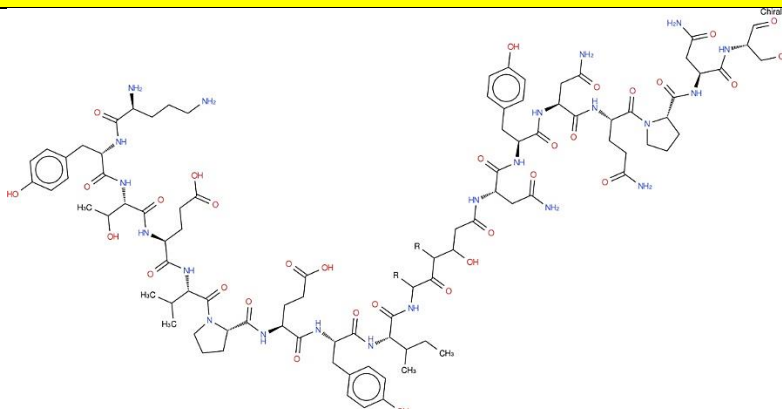
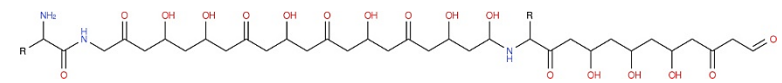
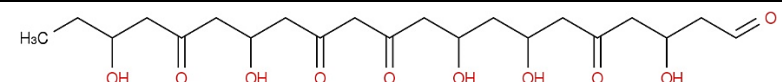
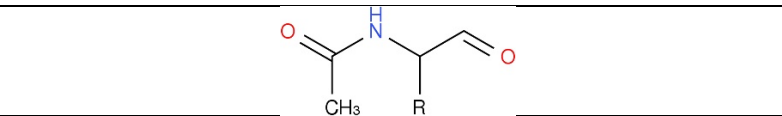
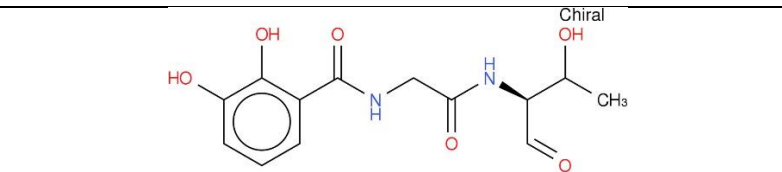
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NBIF-003</b>				
Cluster 1	Nrps-Transatpks	114892	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	T3pks	41109	-	-
Cluster 6	Terpene	21883	-	-
Cluster 7	Nrps	22957	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 8	Bacteriocin-Nrps	51791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

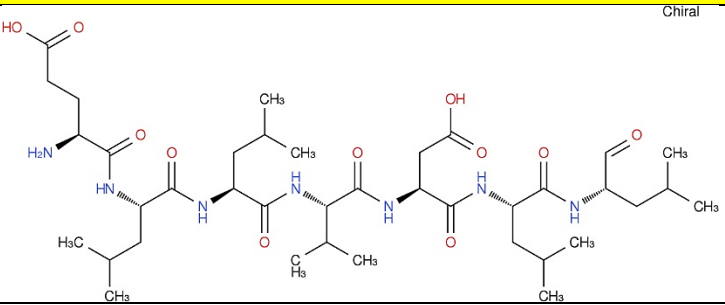
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NBIF-003</b>				
Cluster 10	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Terpene	20740	-	-
Cluster 13	Lantipeptide	28888	-	-



Table S1. Continued.

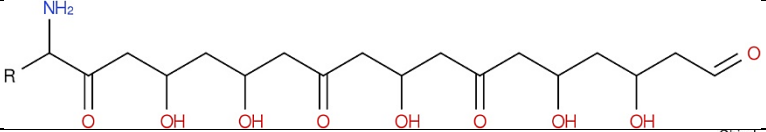
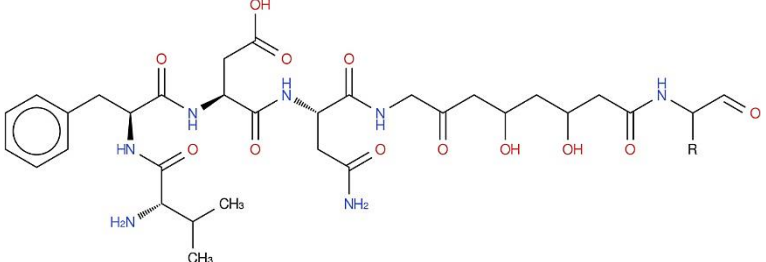
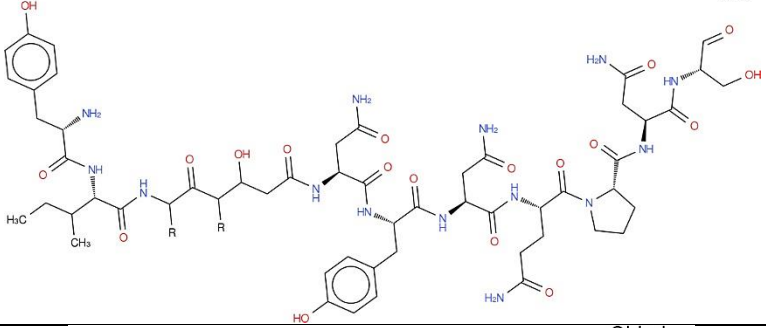
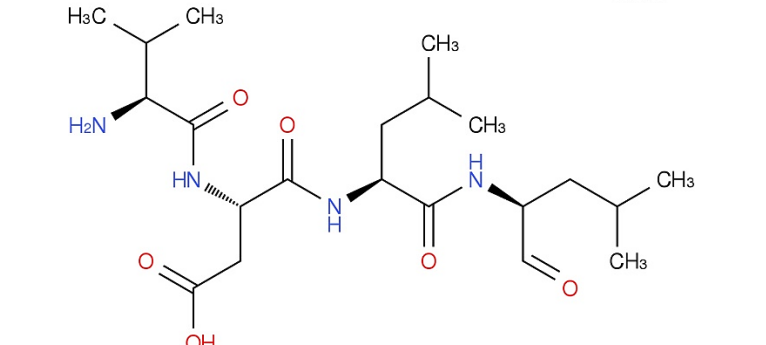
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP214</b>				
Cluster 1	Transatpks	53090	Difficidin biosynthetic gene cluster (60% of genes show similarity)	 <p>Chiral</p>
Cluster 2	Transatpks-Nrps	77735	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	 <p>Chiral</p>
Cluster 3	Transatpks-Nrps	87728	Fengycin biosynthetic gene cluster (80% of genes show similarity)	 <p>Chiral</p>
Cluster 4	Nrps	36551	Surfactin biosynthetic gene cluster (47% of genes show similarity)	 <p>Chiral</p>

Table S1. Continued.

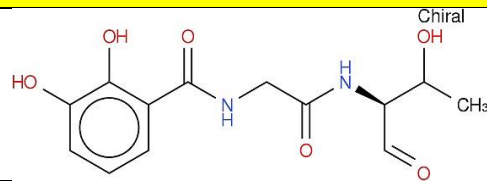
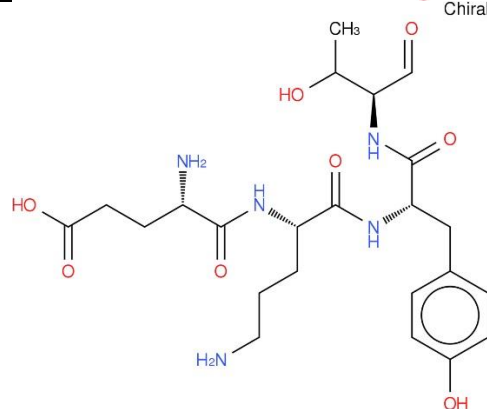
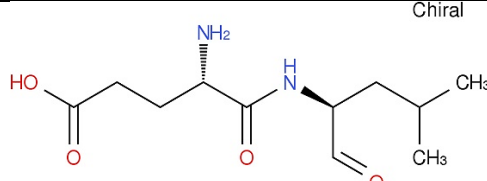
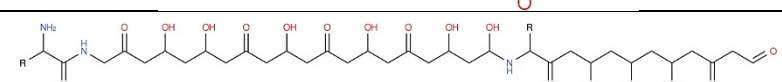
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP214</b>				
Cluster 5	Nrps	41963	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Nrps	37288	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 7	Transatpks	45022	Difficidin biosynthetic gene cluster (46% of genes show similarity)	-
Cluster 8	T3pks	41109	-	-
Cluster 9	Terpene	21883	-	-
Cluster 10	Nrps	27924	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 11	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

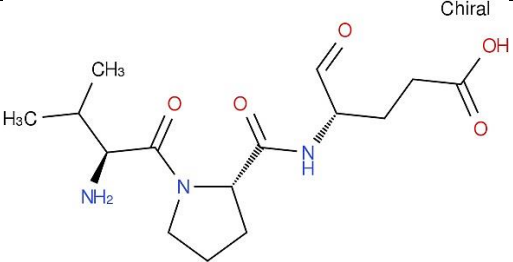
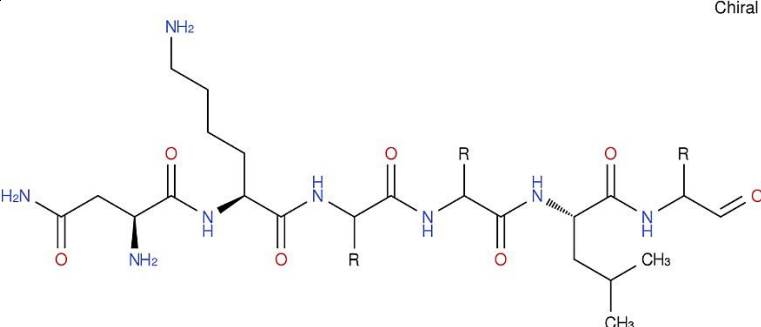
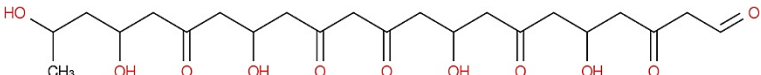
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AP214</b>				
Cluster 12	Nrps	9651	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 13	Terpene	20740	-	-
Cluster 14	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 15	Nrps	84176	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 16	Transatpks	85888	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

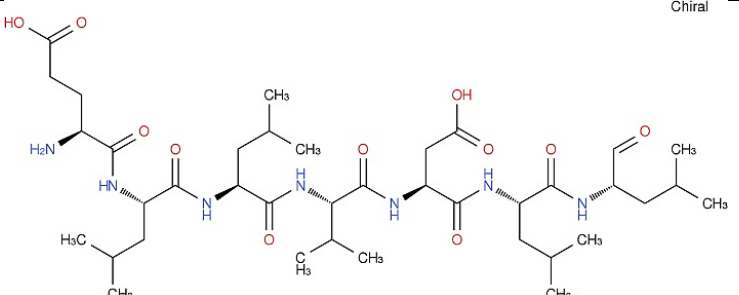
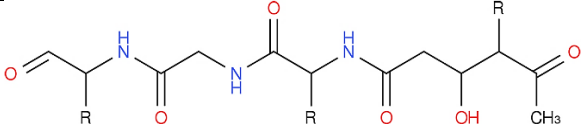
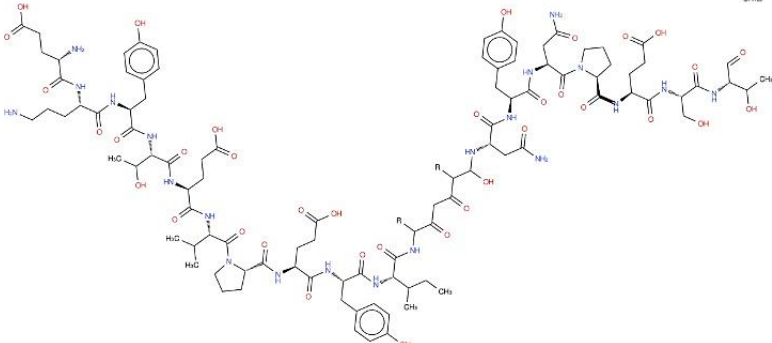
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JS25R</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Phosphonate	40902	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Nrps-Transatpks	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps-Transatpks	137830	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41109	-	-

Table S1. Continued.

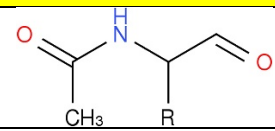
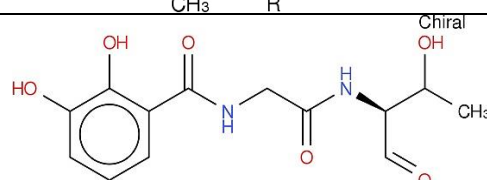
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JS25R</b>				
Cluster 10	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66795	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65342	-	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

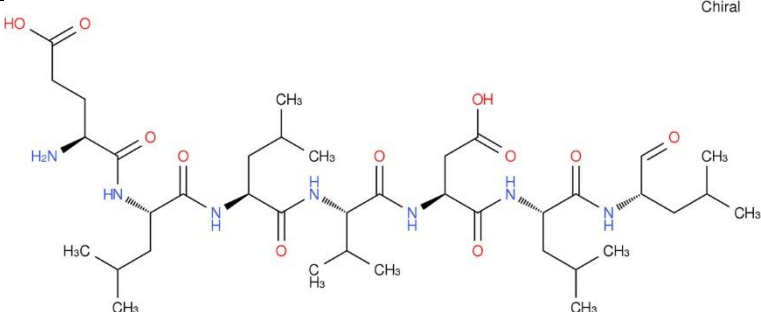
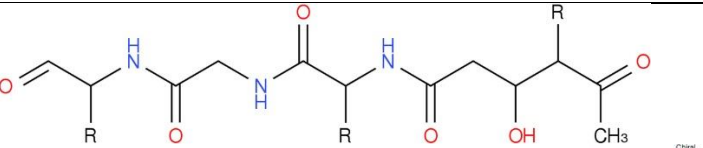
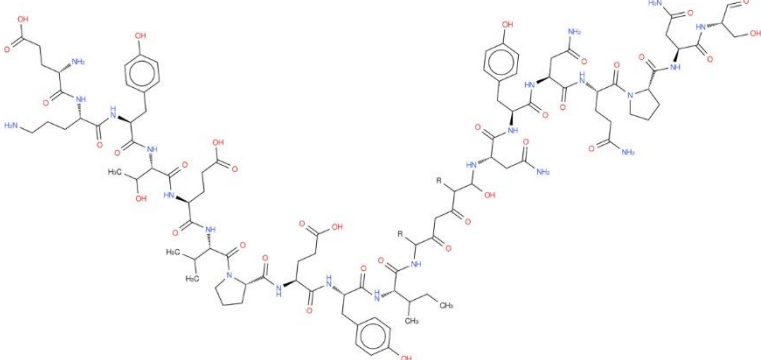
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5036</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85881	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102392	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137815	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41100	-	-

Table S1. Continued.

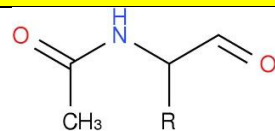
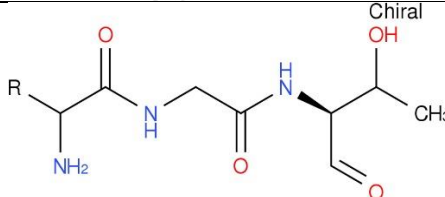
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5036</b>				
Cluster 9	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Nrps	44115	-	-
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

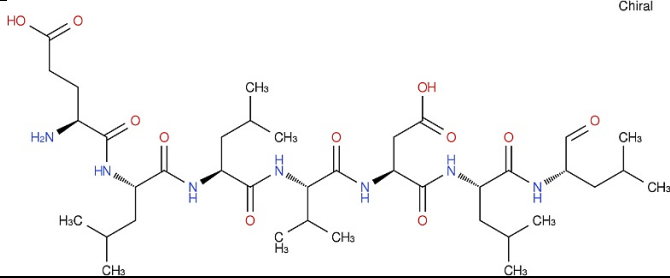
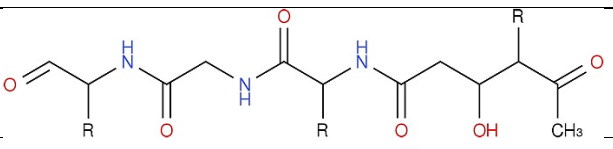
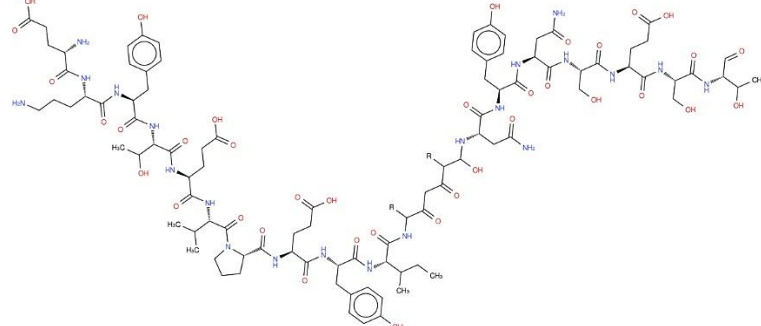
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SB1216</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	83565	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Nrps-Transatpks	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Nrps-Transatpks	13172	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Other	41418	Bacilysin biosynthetic gene cluster (85% of genes show similarity)	-
Cluster 8	T3pks	41109	-	-



Table S1. Continued.

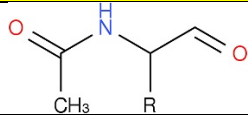
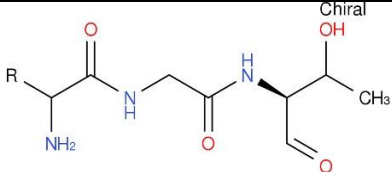
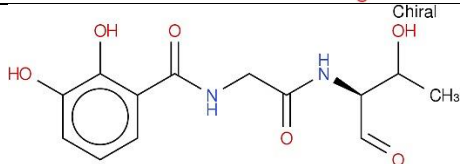
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SB1216</b>				
Cluster 9	Transatpks	100456	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Terpene	21883	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

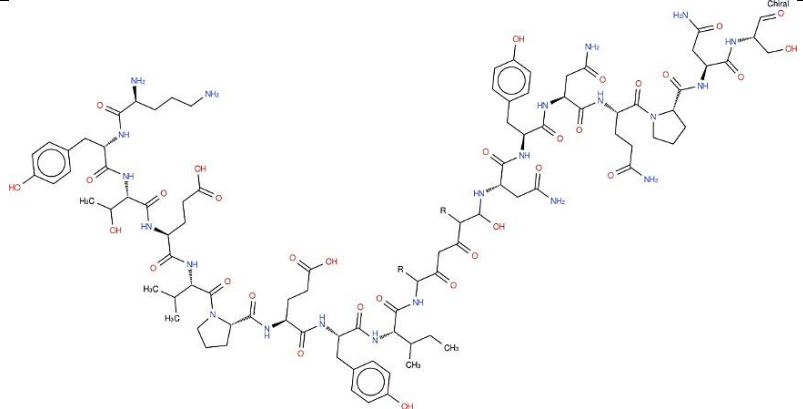
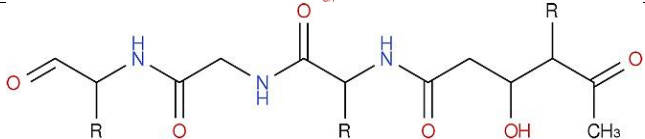
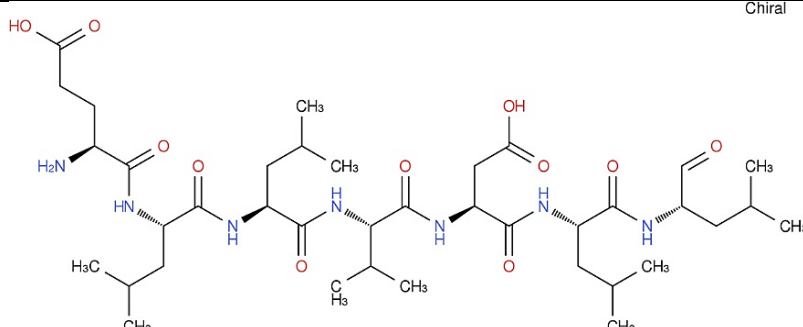
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CC09</b>				
Cluster 1	Nrps- Transatpks- Bacteriocin	128301	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 2	Transatpks- Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 6	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	

Table S1. Continued.

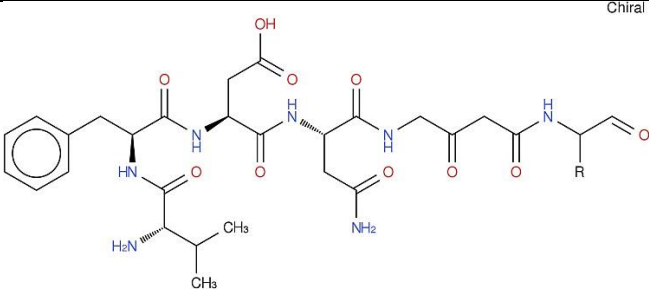
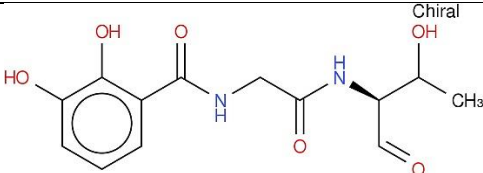
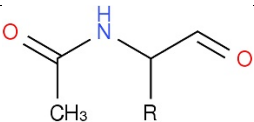
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CC09</b>				
Cluster 7	Transatpks-Nrps	77757	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 8	Other	41418	Bacilysin biosynthetic gene cluster (85% of genes show similarity)	-
Cluster 9	Nrps	60005	-	-
Cluster 10	Bacteriocin-Nrps	51794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	T3pks	41109	-	-
Cluster 13	Terpene	21883	-	-
Cluster 14	Nrps	22720	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-

Table S1. Continued.

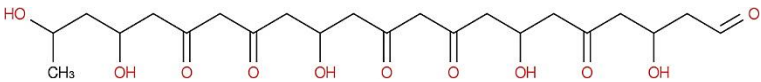
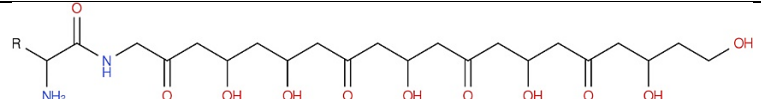
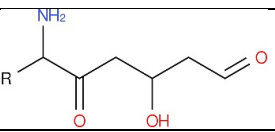
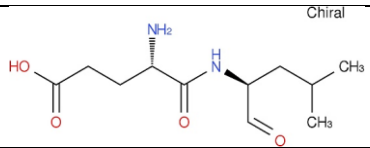
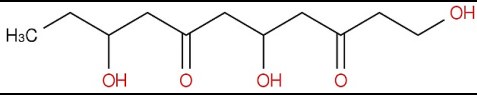
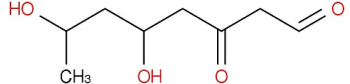
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034338</b>				
Cluster 1	Terpene	13634	-	-
Cluster 2	Terpene	29871	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Transatpks	68716	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	59131	Bacillaene biosynthetic gene cluster (85% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks	28165	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 8	Nrps	25179	Surfactin biosynthetic gene cluster (43% of genes show similarity)	-
Cluster 9	Bacteriocin-Nrps	26509	Bacillibactin biosynthetic gene cluster (76% of genes show similarity)	-
Cluster 10	T3pks	23877	-	-
Cluster 11	Nrps	27595	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 12	Transatpks	22682	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 13	Transatpks	39780	Bacillaene biosynthetic gene cluster (21% of genes show similarity)	

Table S1. Continued.

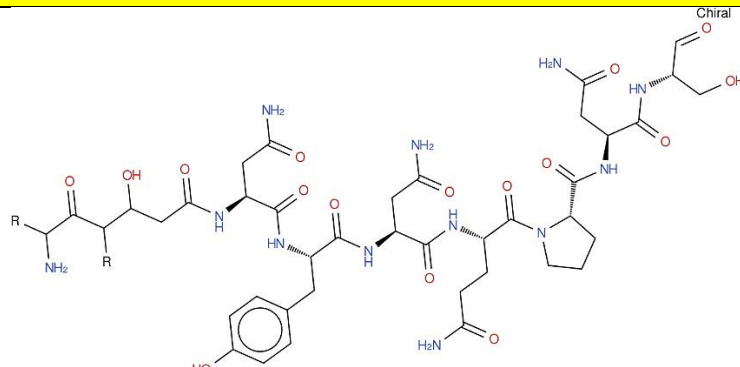
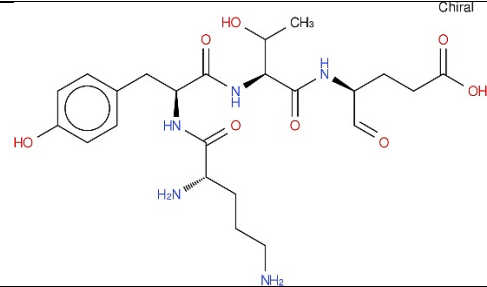
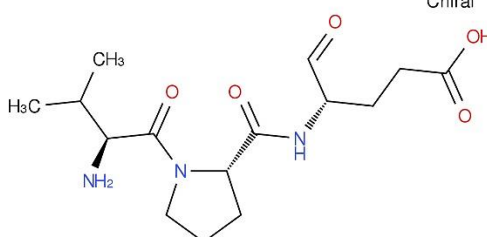
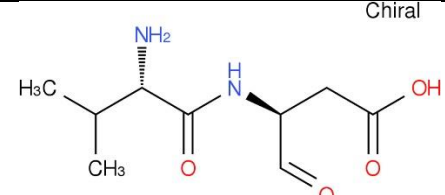
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034338</b>				
Cluster 14	Transatpks-Nrps	76026	Bacillomycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	Nrps	13938	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 16	Nrps	9325	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 17	Nrps	8901	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034338</b>				
Cluster 18	Nrps	7875	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	6339	Bacillibactin biosynthetic gene cluster (23% of genes show similarity)	
Cluster 20	Other	3125	-	-
Cluster 21	Nrps	1906	-	-
Cluster 22	Transatpks	45630	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

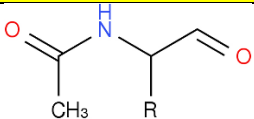
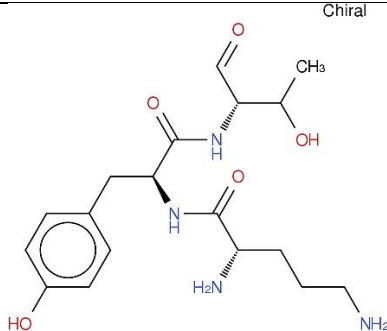
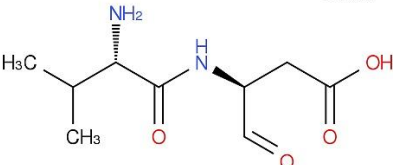
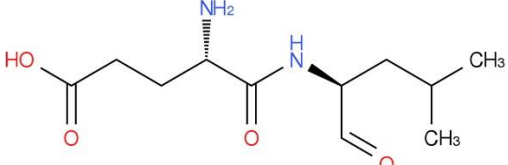
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NRRL B-4257</b>				
Cluster 1	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	T3pks	41109	-	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Nrps	13862	Fengycin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 7	Nrps	14408	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 8	Nrps	8922	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 9	Nrps	27617	Surfactin biosynthetic gene cluster (47% of genes show similarity)	

Table S1. Continued.

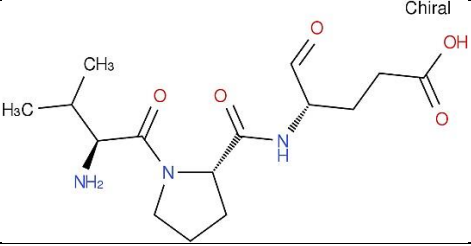
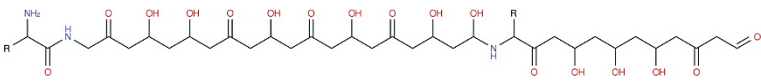
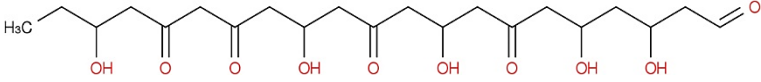
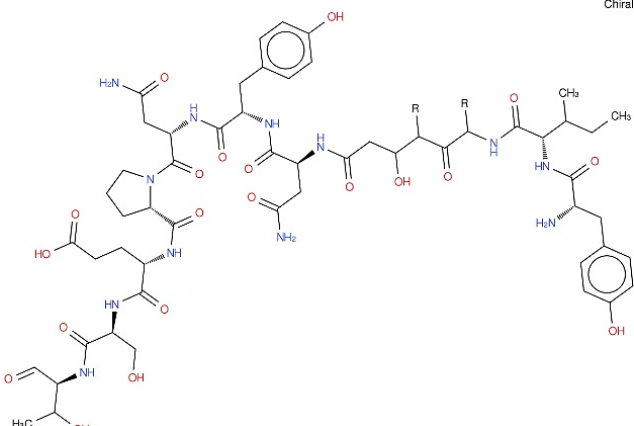
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NRRL B-4257</b>				
Cluster 10	Nrps	11967	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 11	Nrps	2335	-	-
Cluster 12	Nrps	1883	-	-
Cluster 13	Nrps	1223	-	-
Cluster 14	Phosphonate	40902	-	-
Cluster 15	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 16	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 17	Nrps	25178	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 18	Nrps-Transatpks	88020	Fengycin biosynthetic gene cluster (80% of genes show similarity)	



Table S1. Continued.

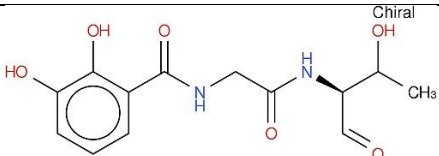
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NRRL B-4257</b>				
Cluster 19	Nrps	40295	-	-
Cluster 20	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 21	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 22	Nrps-Bacteriocin	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

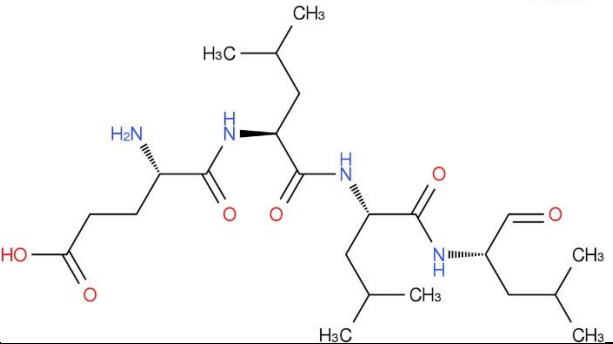
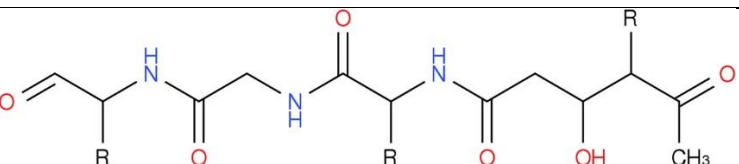
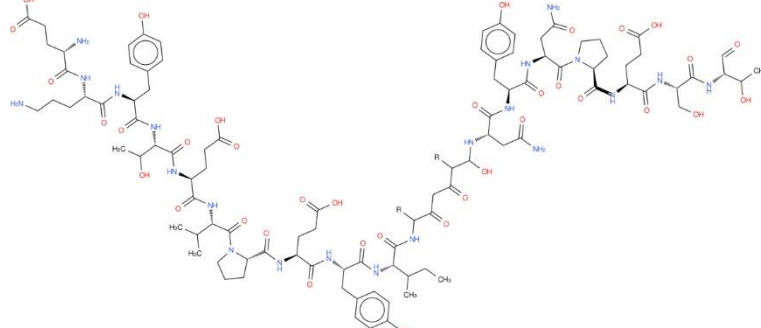
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>YAU B9601-Y2</b>				
Cluster 1	Nrps	54640	Surfactin biosynthetic gene cluster (82% of genes show similarity)	<p>Chiral</p> 
Cluster 2	Phosphonate	40884	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102680	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137831	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

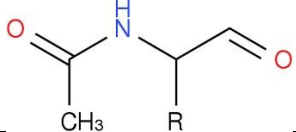
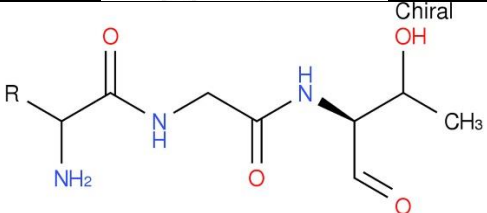

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>YAU B9601-Y2</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66796	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	68420	-	
Cluster 13	Other	41400	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 14	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

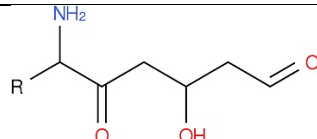
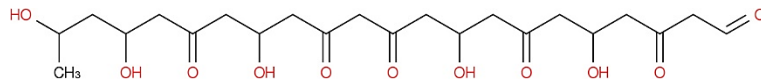
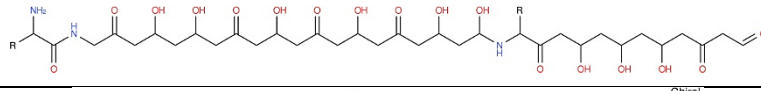
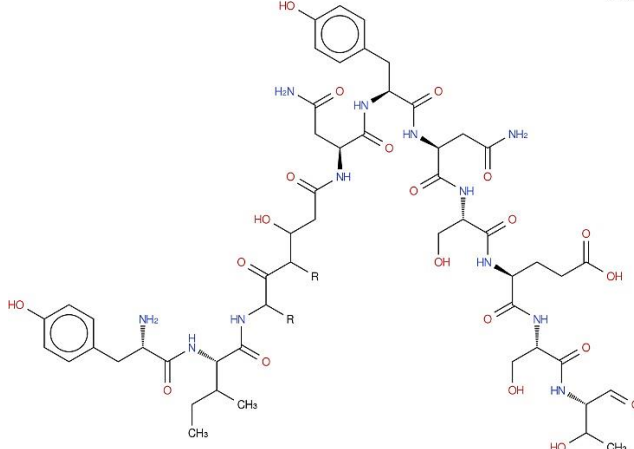
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OB9</b>				
Cluster 1	Nrps	59996	-	-
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Transatpks	29287	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85896	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Nrps-Transatpks	102689	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps-Transatpks	88306	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 8	Transatpks	46467	Difficidin biosynthetic gene cluster (53% of genes show similarity)	-
Cluster 9	T3pks	41109	-	-
Cluster 10	Terpene	21883	-	-

Table S1. Continued.

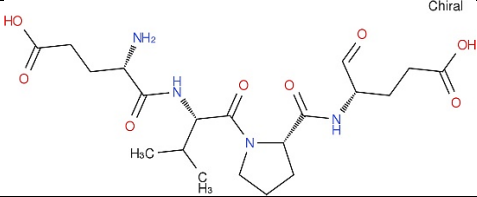
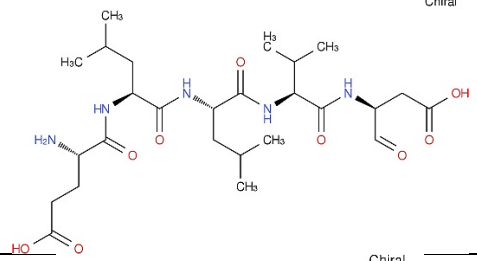
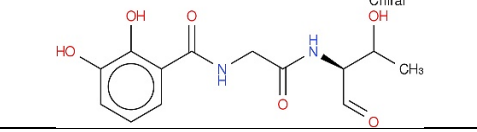
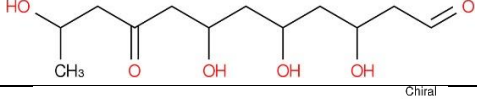
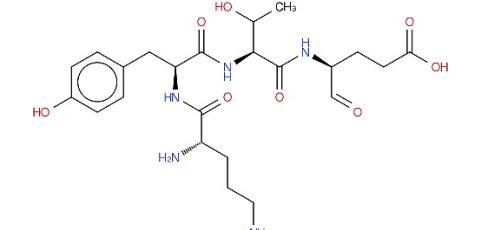
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OB9</b>				
Cluster 11	Nrps	34385	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 12	Nrps	26341	Surfactin biosynthetic gene cluster (47% of genes show similarity)	-
Cluster 13	Nrps	39021	Surfactin biosynthetic gene cluster (52% of genes show similarity)	
Cluster 14	Bacteriocin-Nrps	51794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 16	Transatpks	24960	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 17	Nrps	14478	Fengycin biosynthetic gene cluster (26% of genes show similarity)	

Table S1. Continued.

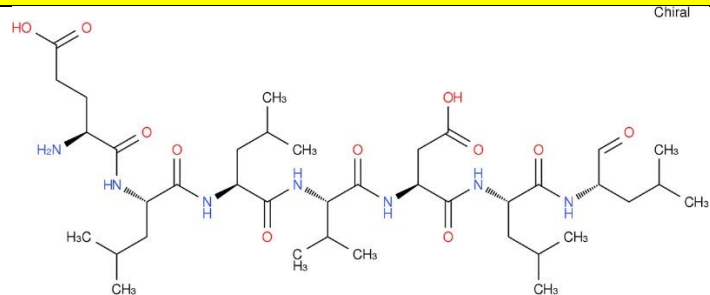
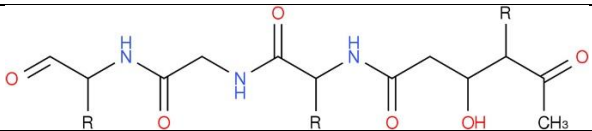
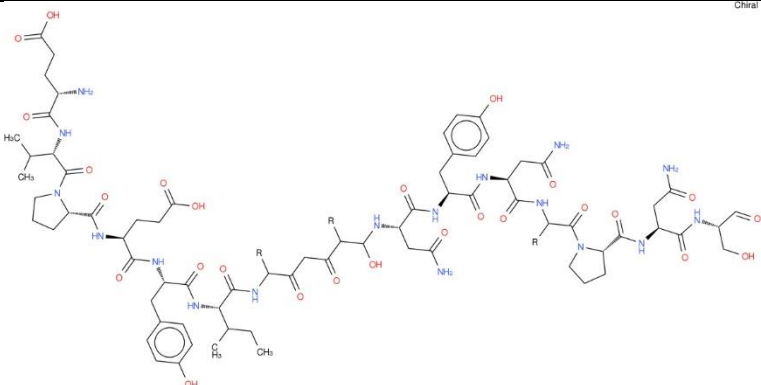
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>ZL918</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Thiopeptide	27295	Kijanimicin biosynthetic gene cluster (4% of genes show similarity)	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	122420	Fengycin biosynthetic gene cluster (93% of genes show similarity)	

Table S1. Continued.

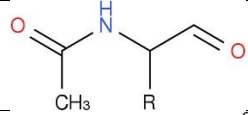
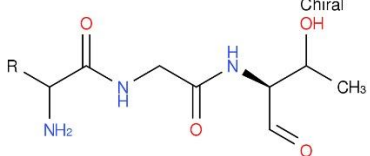
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>ZL918</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

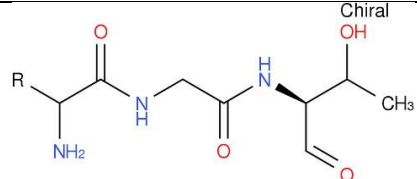
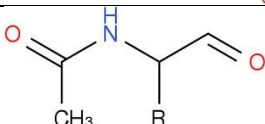
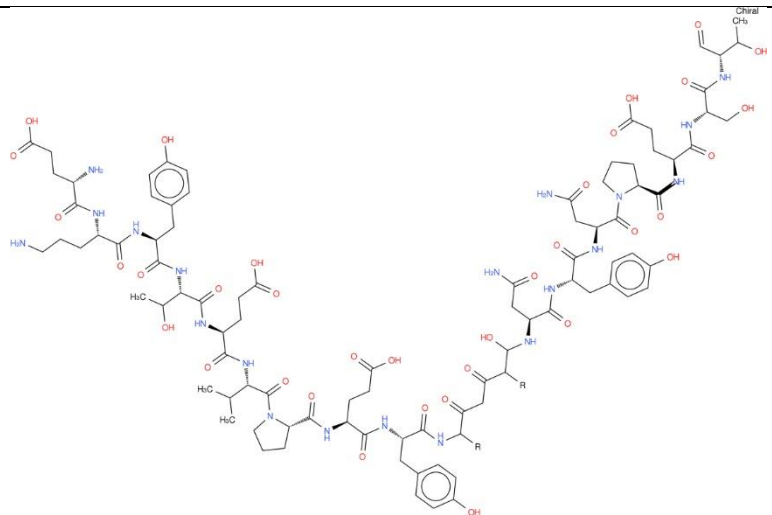
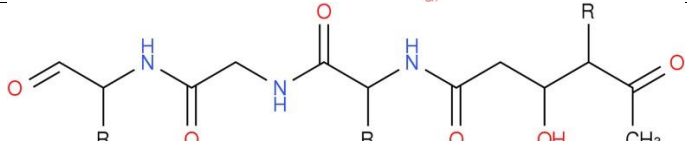
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>YJ11-1-4</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	66789	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks	100451	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	T3pks	41100	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Transatpks-Nrps	137810	Fengycin_biosynthetic_gene_cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	102670	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

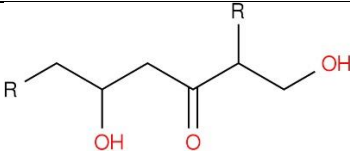
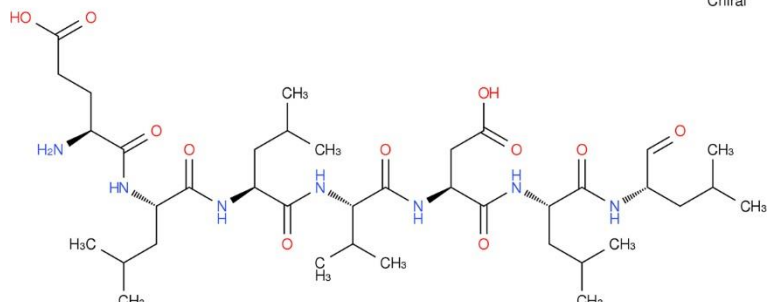
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>YJ11-1-4</b>				
Cluster 8	Transatpks	85889	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Terpene	20740	-	-
Cluster 10	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 11	Transatpks-T1pks	106587	Bacillaene biosynthetic gene cluster (64% of genes show similarity)	 <chem>R-CH2-CH(OH)-CH2-C(=O)-CH(R)-CH2-OH</chem>
Cluster 12	Nrps	65406	Surfactin biosynthetic gene cluster (78% of genes show similarity)	 <p>Chiral</p>

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>V4</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Nrps	25488	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 3	Nrps	28039	Surfactin biosynthetic gene cluster (47% of genes show similarity)	<p>Chiral</p>
Cluster 4	Transatpk	23766	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 5	Nrps	13267	Fengycin biosynthetic gene cluster (20% of genes show similarity)	<p>Chiral</p>
Cluster 6	Nrps	10261	Fengycin biosynthetic gene cluster (20% of genes show similarity)	<p>Chiral</p>

Table S1. Continued.

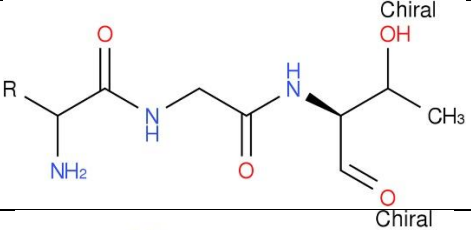
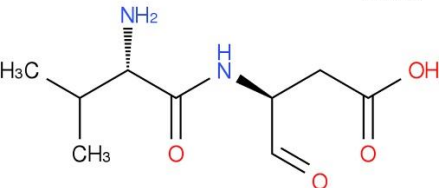
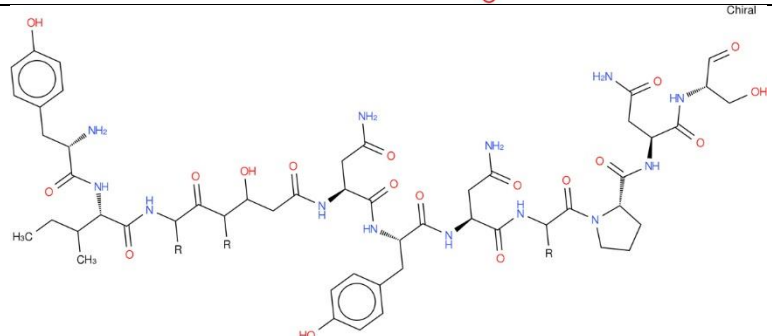
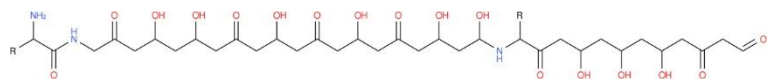
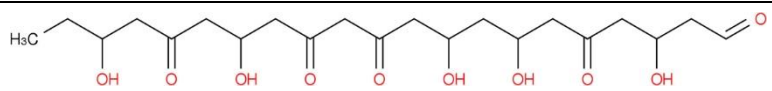
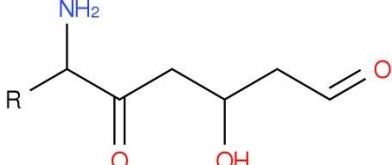
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>V4</b>				
Cluster 7	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Nrps	9654	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 9	Transatpks-Nrps	87854	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 10	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Transatpks	28966	Difficidin biosynthetic gene cluster (46% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>V4</b>				
Cluster 13	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 14	Terpene	20740	-	-
Cluster 15	Lantipeptide	28888	-	-
Cluster 16	Transatpks	46296	Difficidin biosynthetic gene cluster (53% of genes show similarity)	-
Cluster 17	T3pks	41100	-	-
Cluster 18	Terpene	21883	-	-
Cluster 19	Nrps	21910	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-

Table S1. Continued.

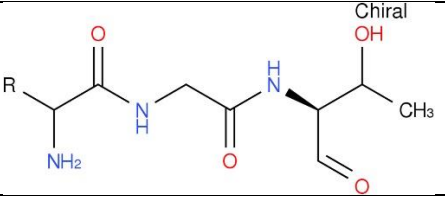
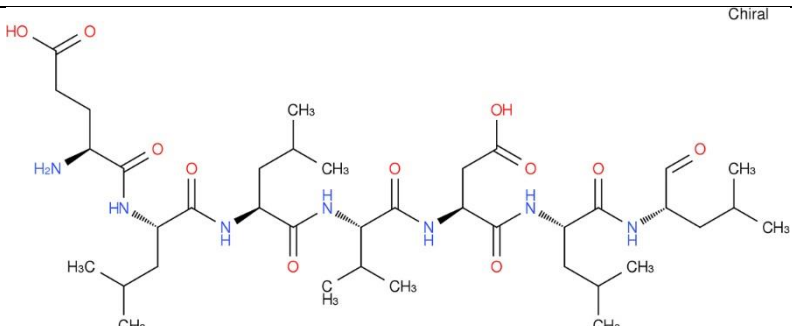
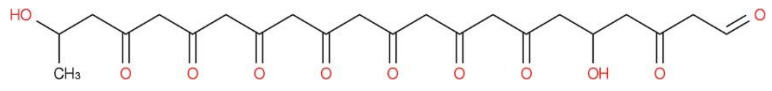
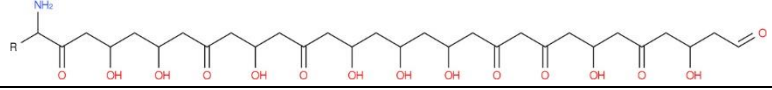
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>W2</b>				
Cluster 1	Nrps	26386	-	-
Cluster 2	Bacteriocin-Nrps	66179	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Nrps	65408	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 7	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks	100449	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	T3pks	41100	-	-
Cluster 10	Terpene	21883	-	-

Table S1. Continued.

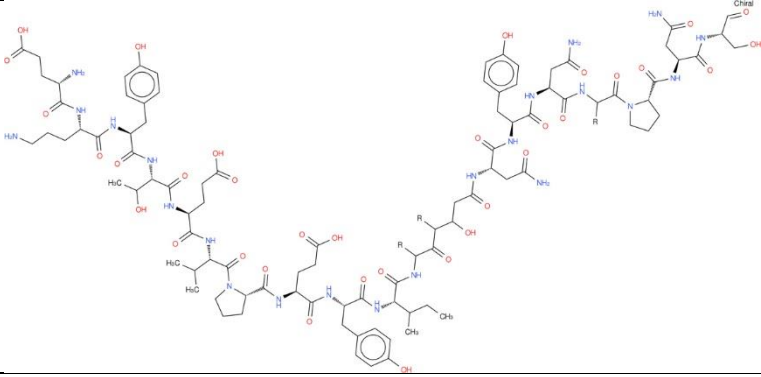
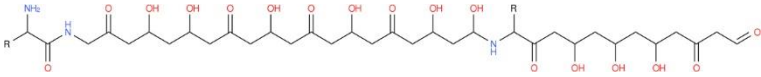
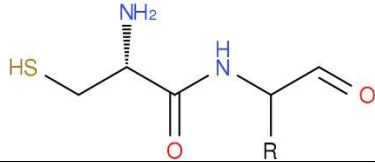
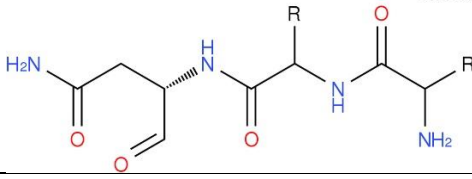
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>W2</b>				
Cluster 11	Bacteriocin-Transatpks-Nrps	150962	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Transatpks-Nrps	102680	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Other	22150	-	-
Cluster 14	Nrps	8736	-	<p>Chiral</p> 
Cluster 15	Nrps	7328	-	<p>Chiral</p> 
Cluster 16	Nrps	2543	-	-
Cluster 17	Other	1086	-	-

Table S1. Continued.

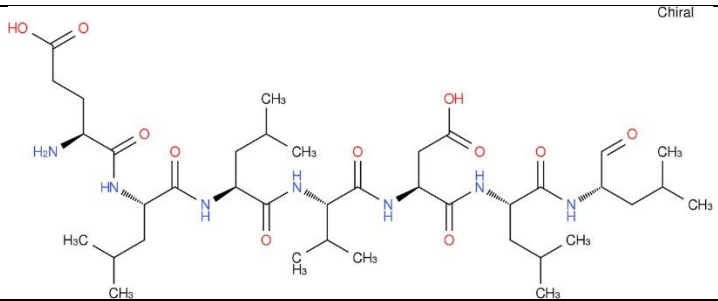
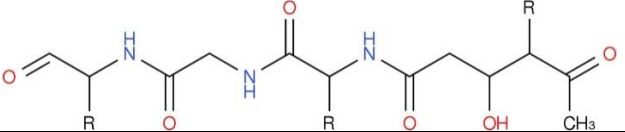
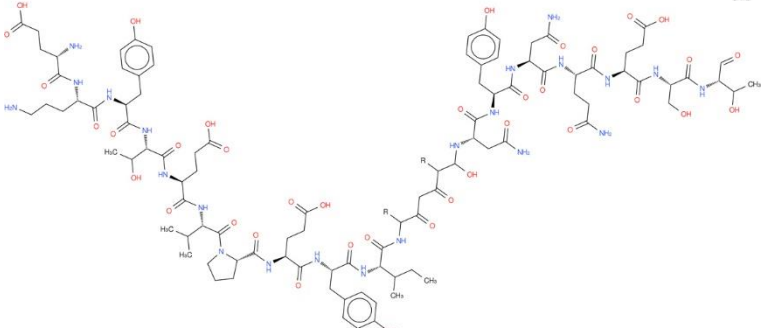
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5113</b>				
Cluster 1	Lantipeptide	22615	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 3	Ladderane	41121	-	-
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102698	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137848	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

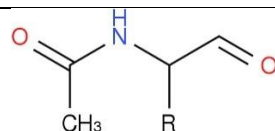
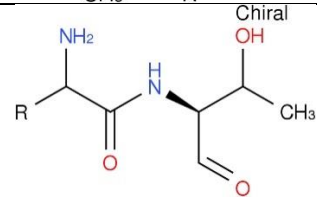
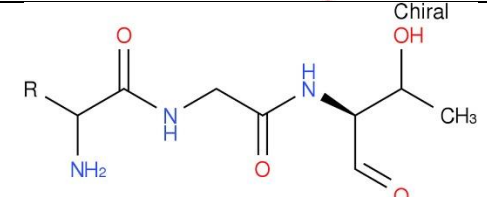
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5113</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	 <chem>CC(=O)NC(R)C=O</chem>
Cluster 12	Nrps	52066	-	 <chem>R[C@@H](C(=O)N[C@@H](C=O)C[C@H](O)C)C(=O)N</chem>
Cluster 13	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <chem>R[C@@H](C(=O)N[C@@H](C=O)C[C@H](O)C)C(=O)N</chem>
Cluster 14	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-



Table S1. Continued.

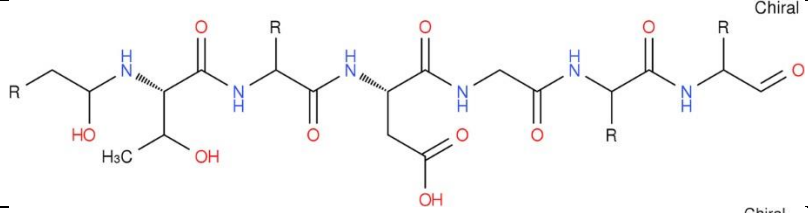
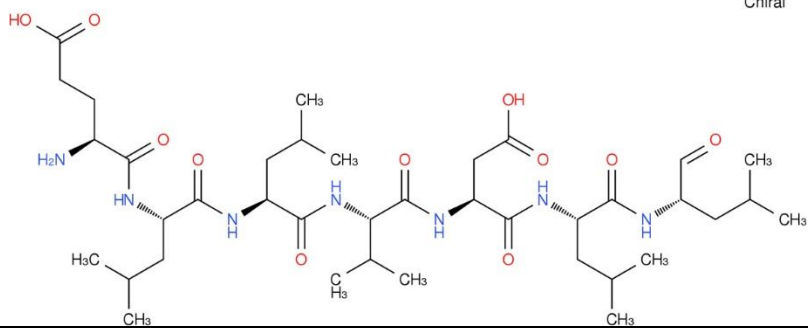
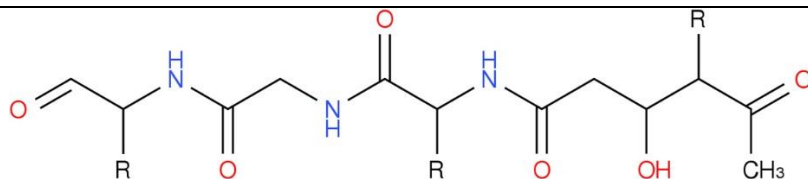
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5033</b>				
Cluster 1	Transatpks-Nrps	69228	Locillomycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85896	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102695	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

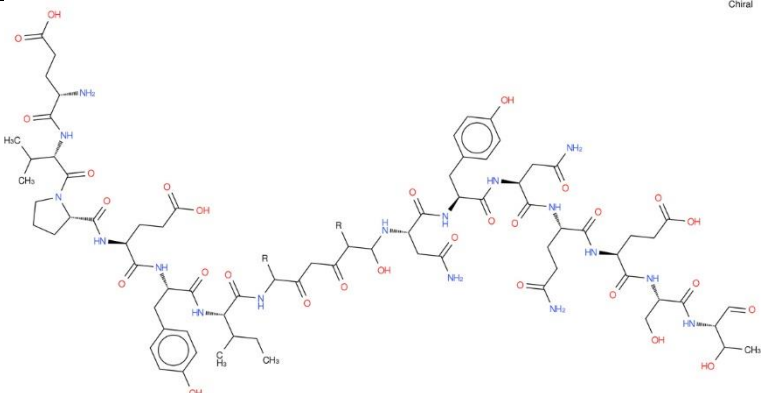
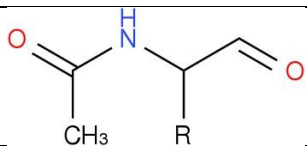
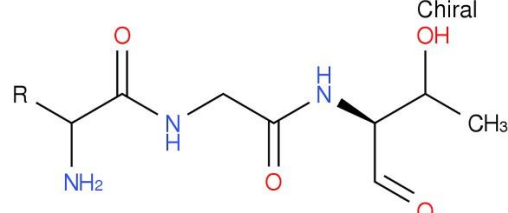
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>UCMB5033</b>				
Cluster 7	Transatpks-Nrps	122436	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

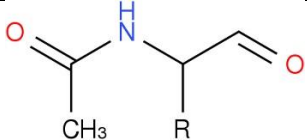
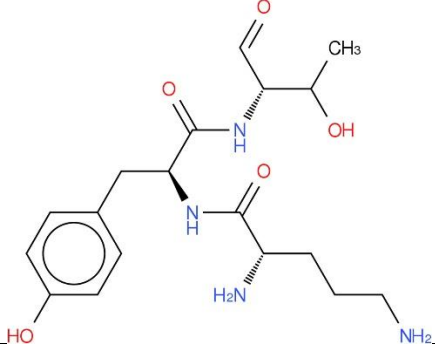
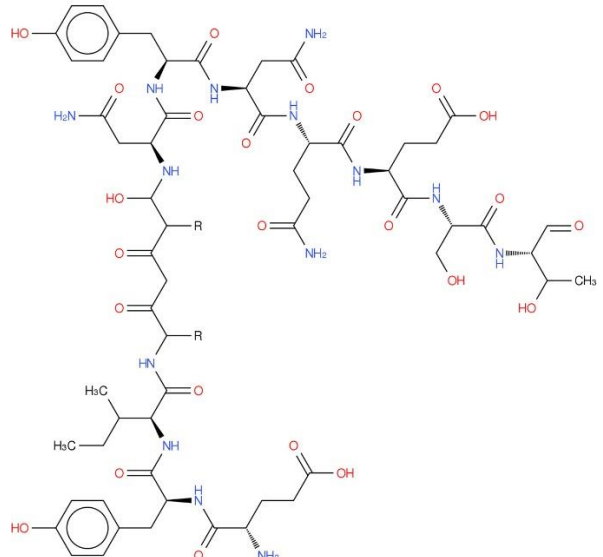
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SYBC H47</b>				
Cluster 1	Transatpks	75781	Difficidin biosynthetic gene cluster (86% of genes show similarity)	 <p>Chiral</p>
Cluster 2	T3pks-Nrps	87478	Plipastatin biosynthetic gene cluster (23% of genes show similarity)	 <p>Chiral</p>
Cluster 3	Terpene	21883	-	-
Cluster 4	Transatpks-Nrps	111281	Fengycin biosynthetic gene cluster (93% of genes show similarity)	 <p>Chiral</p>

Table S1. Continued.

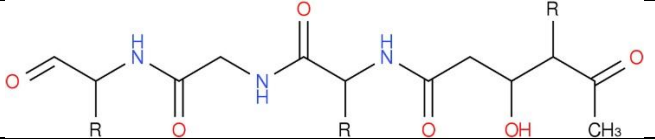
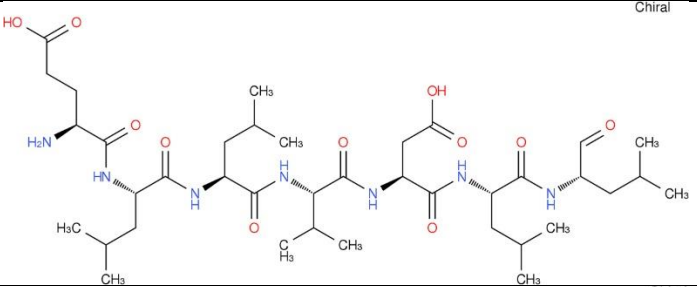
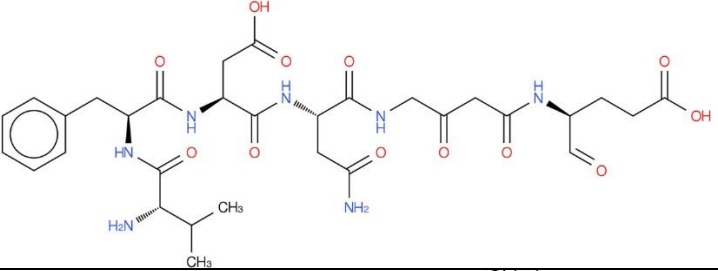
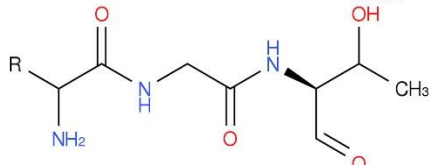
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SYBC H47</b>				
Cluster 5	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks	85877	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Terpene	20740	-	-
Cluster 8	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 9	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 10	Transatpks-Nrps	77730	Rhizocticin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.


Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SYBC H47</b>				
Cluster 12	Nrps	68423	-	
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

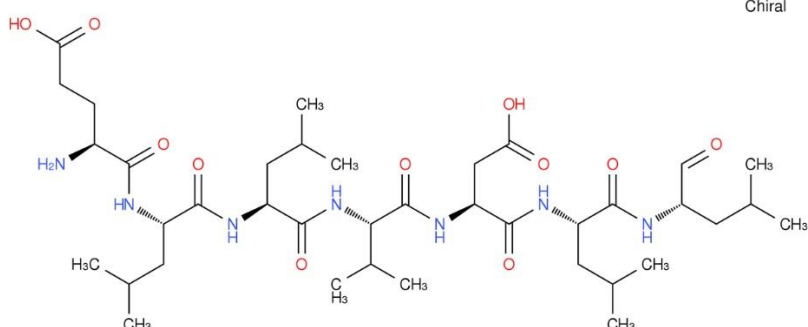
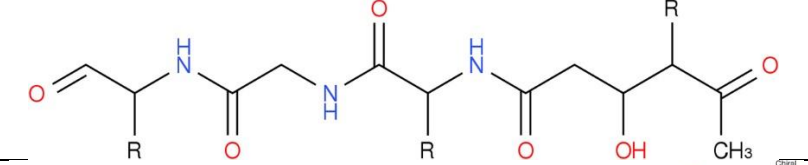
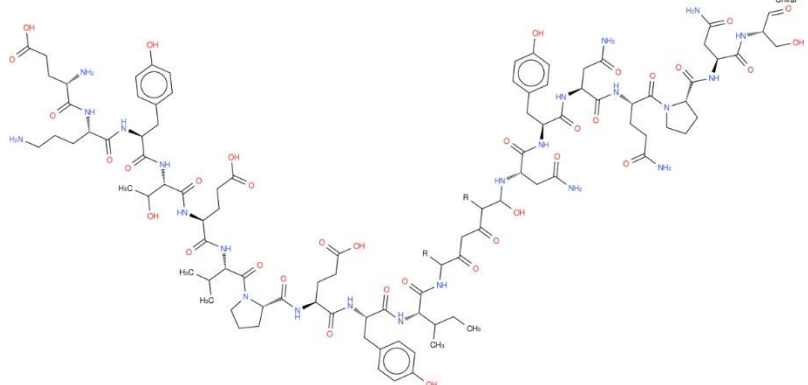
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TrigoCor1448</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137813	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

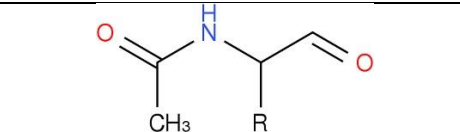
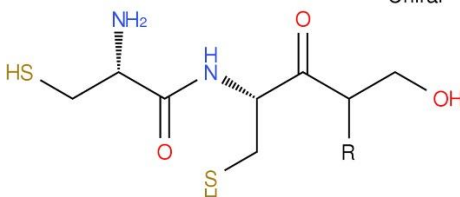
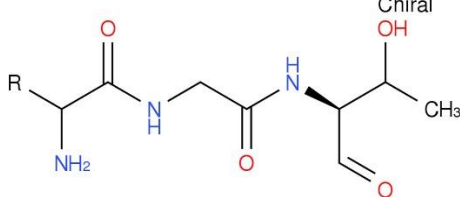
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TrigoCor1448</b>				
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41100	-	-
Cluster 9	Transatpks	100455	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Nrps	52666	Micrococcin P1 biosynthetic gene cluster (8% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

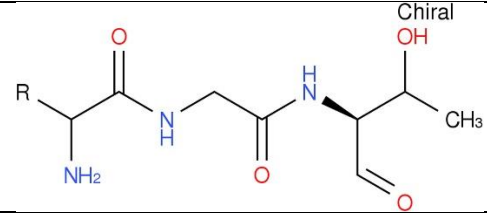
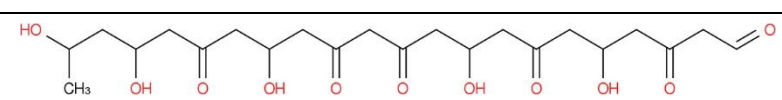
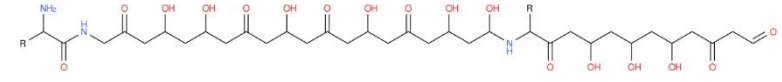
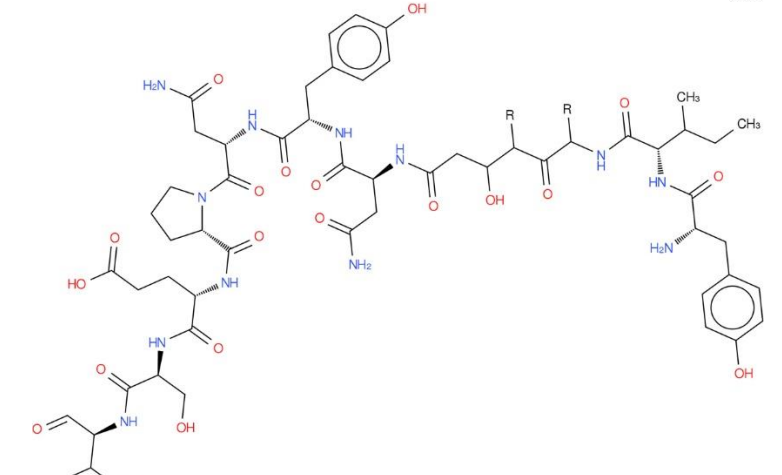
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-19</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85885	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	87842	Fengycin biosynthetic gene cluster (80% of genes show similarity)	



Table S1. Continued.

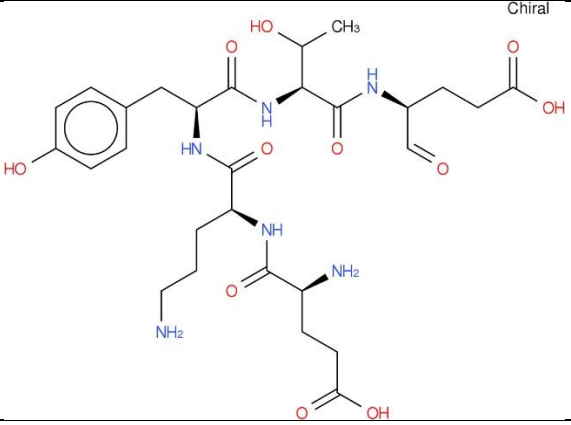
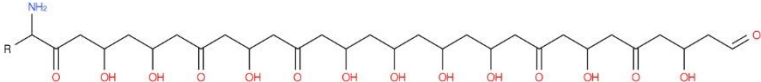
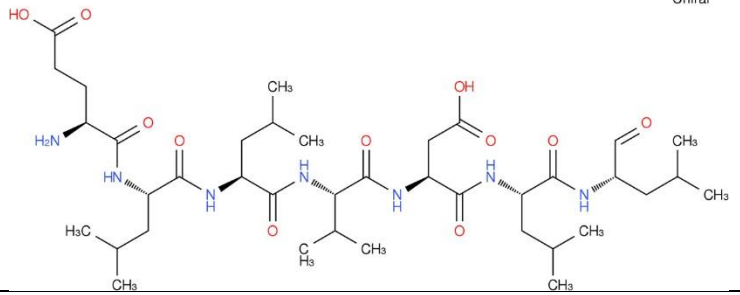
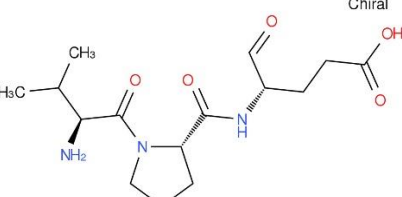
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-19</b>				
Cluster 8	Nrps	37950	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100459	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 13	Lantipeptide	18500	-	-
Cluster 14	Nrps	9486	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-19</b>				
Cluster 15	Nrps	1525	-	-

Table S1. Continued.

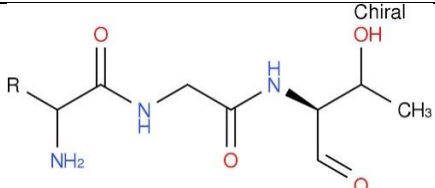
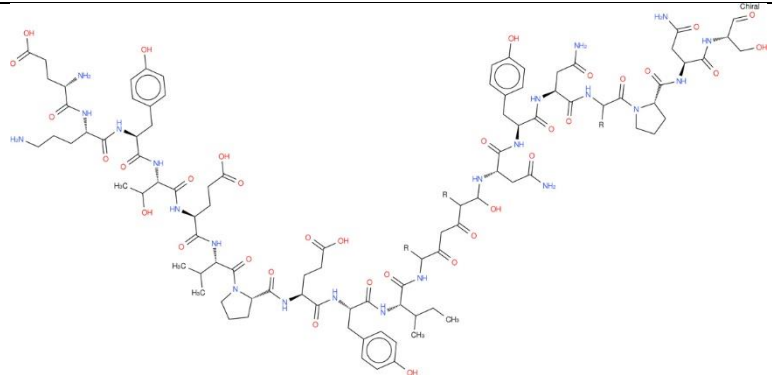
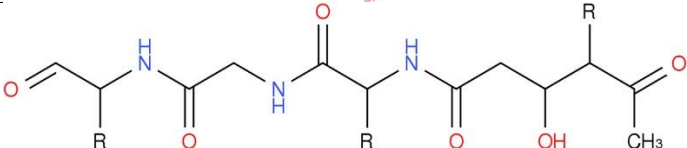
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>sx01604</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpkps	96784	Difficidin biosynthetic gene cluster (66% of genes show similarity)	-
Cluster 4	T3pkps	41100	-	-
Cluster 5	Terpene	21883	-	-
Cluster 6	Transatpkps-Nrps	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpkps-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpkps	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Lantipeptide	28888	-	-

Table S1. Continued.

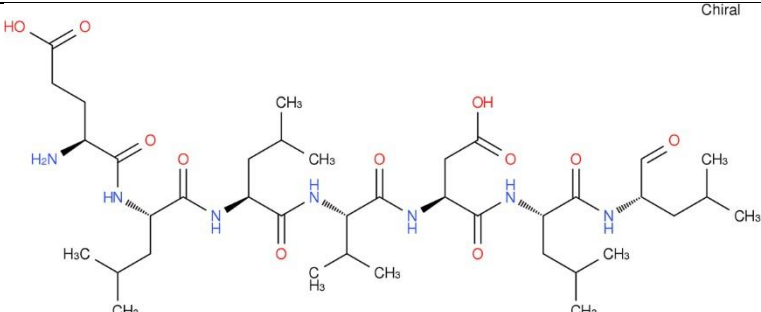
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>sx01604</b>				
Cluster 10	Terpene	20740	-	-
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	

Table S1. Continued.

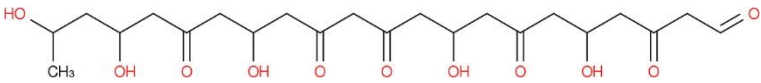
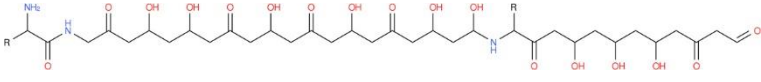
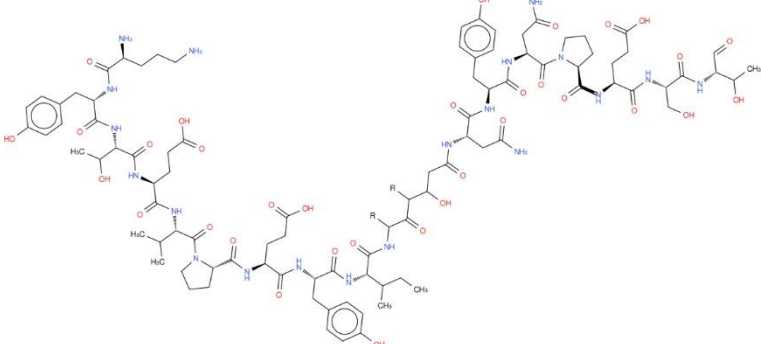
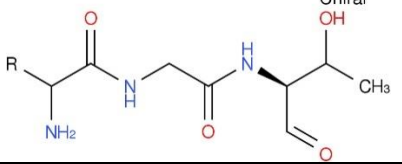
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-18</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	115398	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 6	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 8	Nrps	21974	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-

Table S1. Continued.

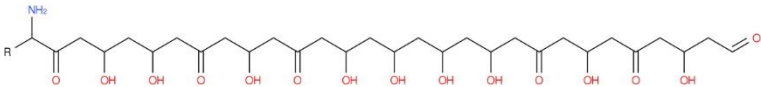
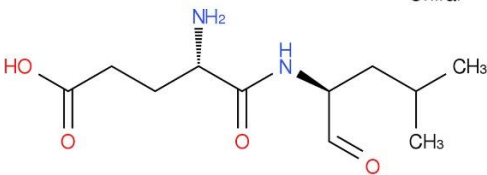
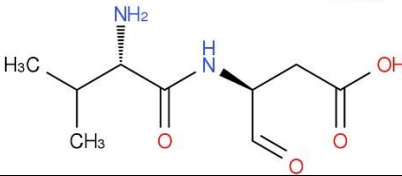
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-18</b>				
Cluster 11	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	25942	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 13	Nrps	27929	Surfactin biosynthetic gene cluster (47% of genes show similarity)	<p>Chiral</p> 
Cluster 14	Lantipeptide	22609	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-
Cluster 15	Nrps	9998	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<p>Chiral</p> 

Table S1. Continued.

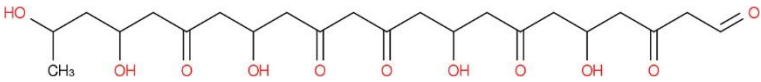
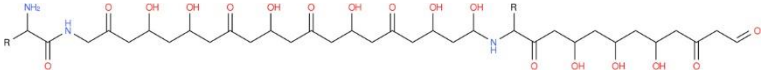
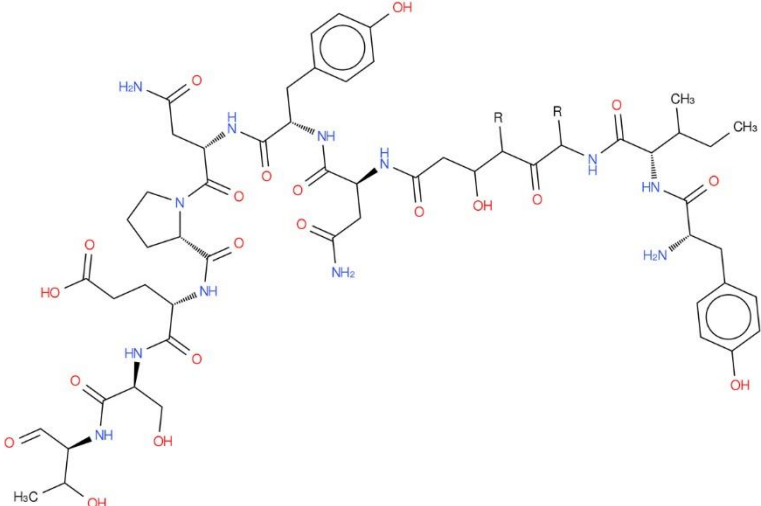
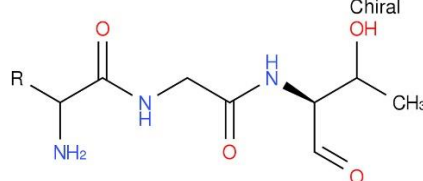
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-8</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85885	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	88472	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

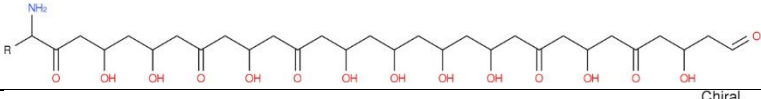
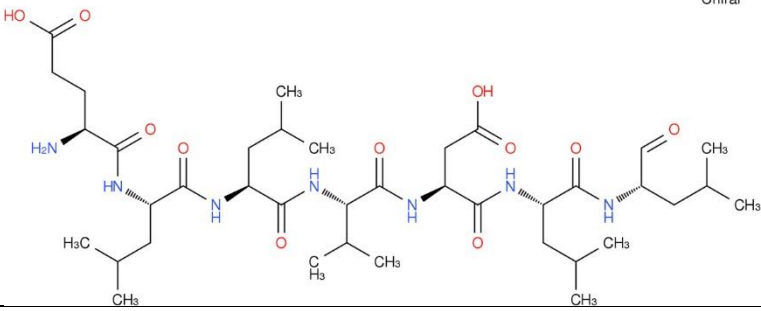
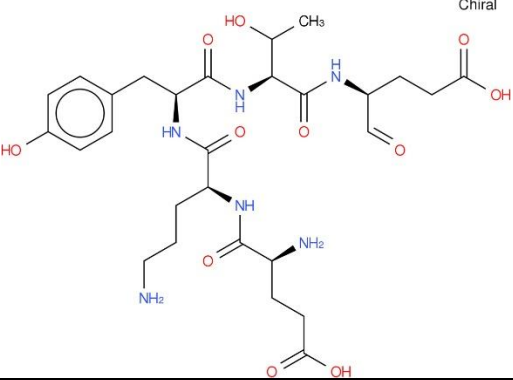
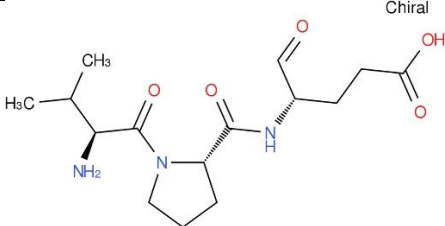
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-8</b>				
Cluster 8	T3pks	41100	-	-
Cluster 9	Transatpks	100459	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 11	Terpene	21883	-	-
Cluster 12	Nrps	38094	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 13	Lantipeptide	18500	-	-
Cluster 14	Nrps	10260	Fengycin biosynthetic gene cluster (20% of genes show similarity)	



Table S1. Continued.

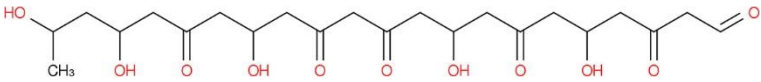
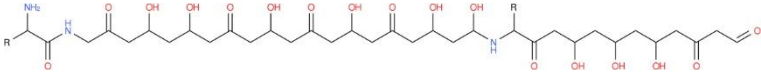
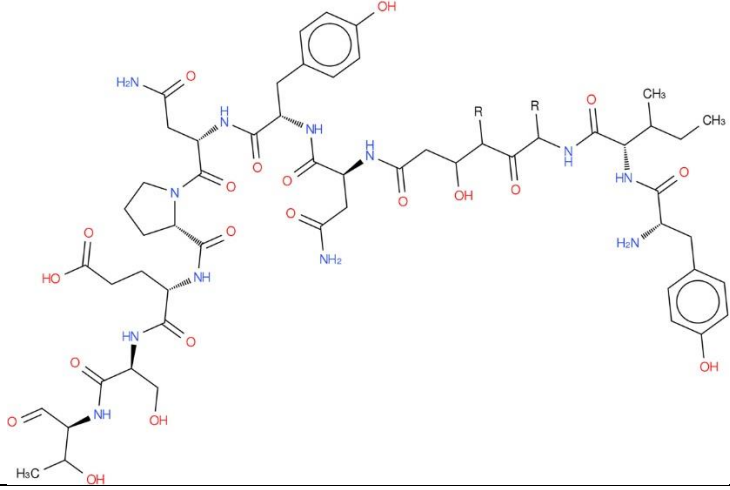
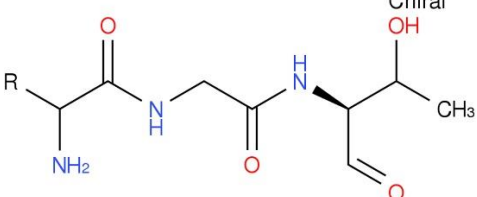
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-10</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85885	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	88472	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

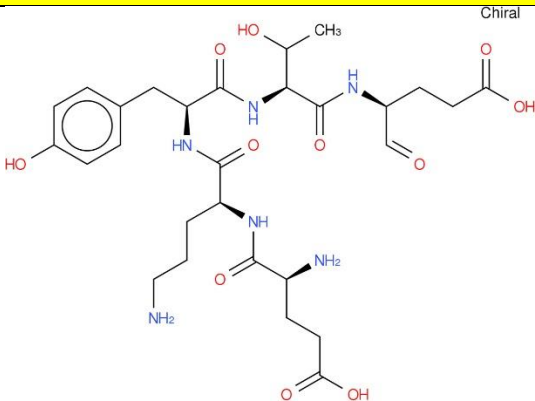
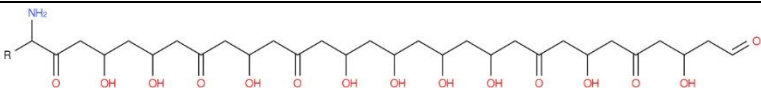
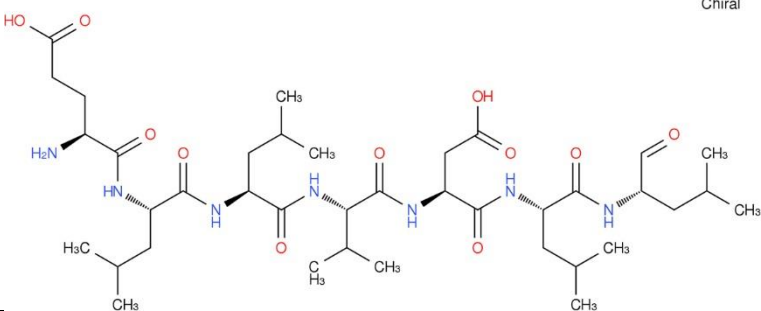
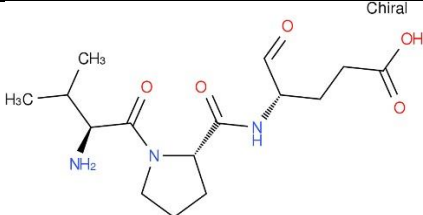
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-10</b>				
Cluster 8	Nrps	38094	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100459	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 13	Lantipeptide	18500	-	-
Cluster 14	Nrps	10260	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

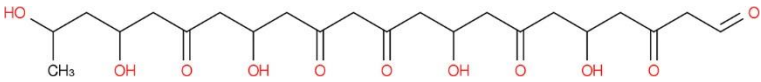
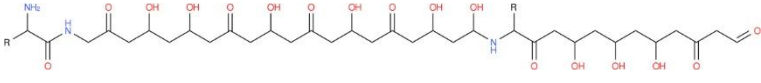
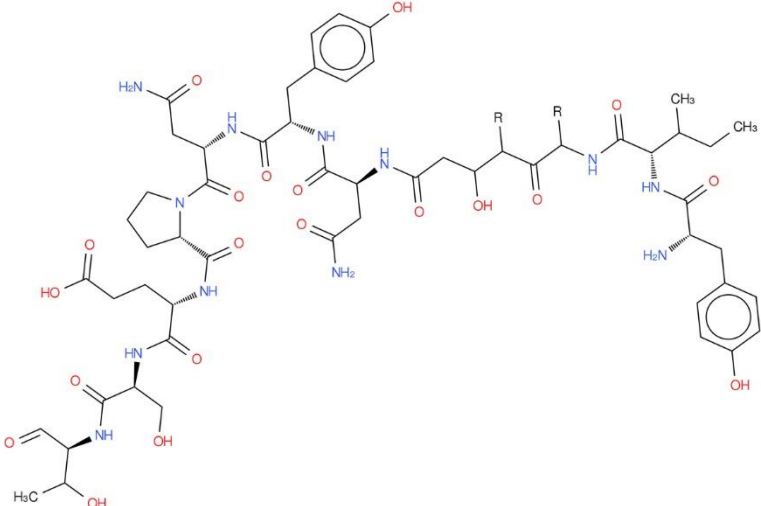
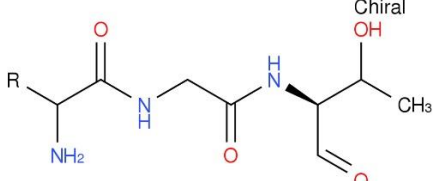
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-2</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85885	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	88472	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

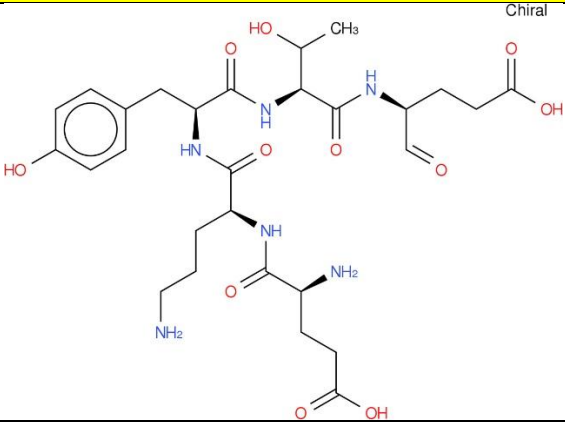
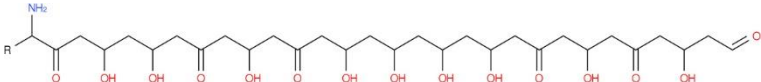
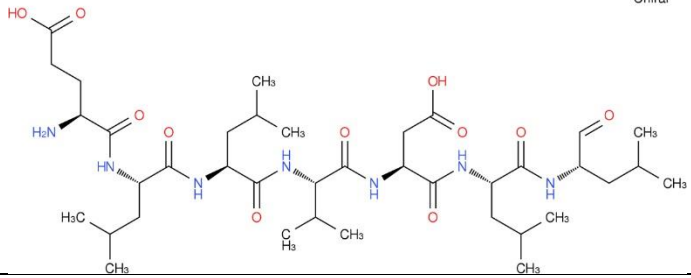
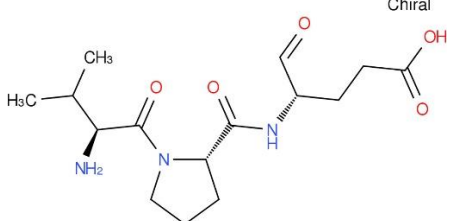
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SSBW-2</b>				
Cluster 8	Nrps	38094	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100459	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 13	Lantipeptide	18500	-	-
Cluster 14	Nrps	10260	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OEE-1</b>				
Cluster 1	Nrps	7846	-	-
Cluster 2	Nrps	10988	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<div> <div>Chiral</div> </div>
Cluster 3	Nrps	9364	-	-
Cluster 4	Transatpks-Nrps	23017	-	-
Cluster 5	Nrps	4955	-	-
Cluster 6	Terpene	20740	-	-
Cluster 7	Nrps	23700	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-
Cluster 8	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Nrps	26782	Bacillibactin biosynthetic gene cluster (30% of genes show similarity)	<div> <div>Chiral</div> </div>
Cluster 10	Nrps	25628	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 11	Nrps	27856	Surfactin biosynthetic gene cluster (43% of genes show similarity)	<div> <div>Chiral</div> </div>

Table S1. Continued.

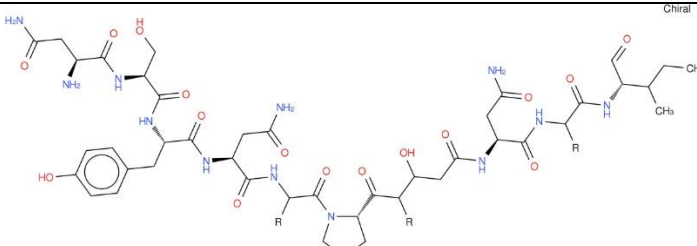
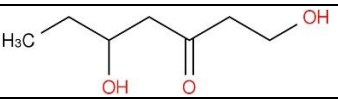
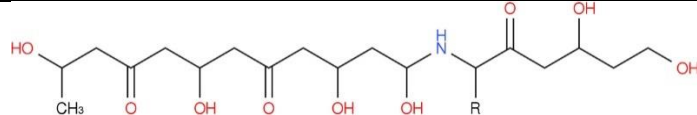
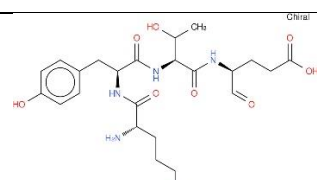
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OEE-1</b>				
Cluster 12	Nrps	23107	Plipastatin biosynthetic gene cluster (38% of genes show similarity)	-
Cluster 13	Terpene	21883	-	-
Cluster 14	Transatpks-Nrps	82873	Fengycin biosynthetic gene cluster (66% of genes show similarity)	
Cluster 15	Otherks	24921	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 16	Bacteriocin-Nrps	40625	Bacillibactin biosynthetic gene cluster (76% of genes show similarity)	-
Cluster 17	Transatpks	15750	Difficidin biosynthetic gene cluster (33% of genes show similarity)	
Cluster 18	Nrps	2469	-	-
Cluster 19	Lantipeptide	28889	-	-
Cluster 20	Transatpks-Nrps	35059	Bacillaene biosynthetic gene cluster (28% of genes show similarity)	
Cluster 21	Nrps	6118	Fengycin biosynthetic gene cluster (26% of genes show similarity)	-
Cluster 22	Nrps	14974	Plipastatin biosynthetic gene cluster (23% of genes show similarity)	

Table S1. Continued.

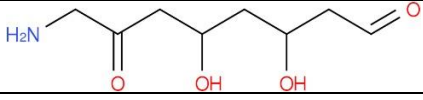
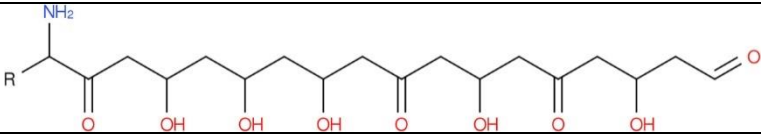
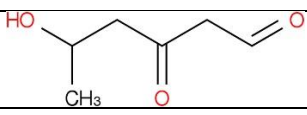
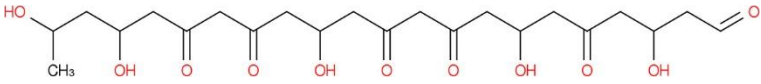
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OEE-1</b>				
Cluster 23	Transatpks-Nrps	13475	Bacillaene biosynthetic gene cluster (21% of genes show similarity)	
Cluster 24	Nrps	2552	-	-
Cluster 25	Transatpks	75766	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 26	Transatpks	7967	-	-
Cluster 27	Transatpks	32457	Bacillaene biosynthetic gene cluster (28% of genes show similarity)	
Cluster 28	T3pks	41100	-	-
Cluster 29	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NRRL B-41580</b>				
Cluster 1	Nrps	27617	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 2	Nrps	25178	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 3	Nrps	14787	Fengycin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 4	Transatpks	42887	Bacillaene biosynthetic gene cluster (28% of genes show similarity)	
Cluster 5	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	T3pks	41100	-	-
Cluster 7	Terpene	21883	-	-
Cluster 8	Nrps	2334	-	-
Cluster 9	Nrps	1883	-	-
Cluster 10	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

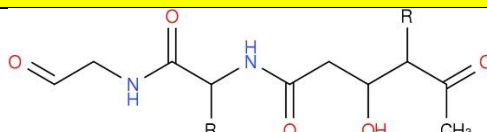
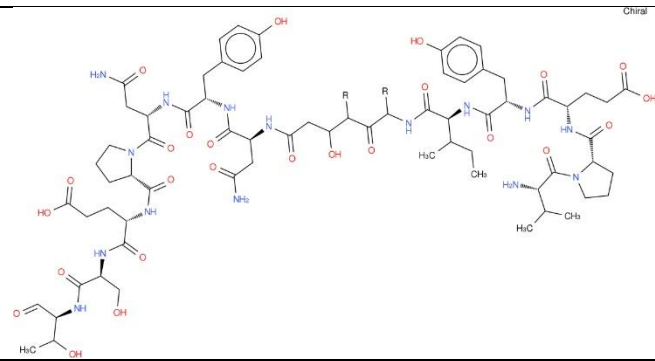
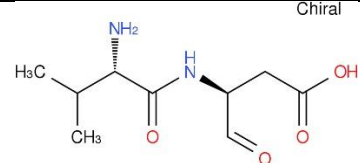
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NRRL_B-41580</b>				
Cluster 11	Transatpks-Nrps	59808	Bacillaene biosynthetic gene cluster (85% of genes show similarity)	
Cluster 12	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Terpene	20740	-	-
Cluster 14	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 15	Nrps	40295	-	-
Cluster 16	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 17	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 18	Transatpks-Nrps	100306	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 19	Phosphonate	40884	-	-
Cluster 20	Nrps	8922	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

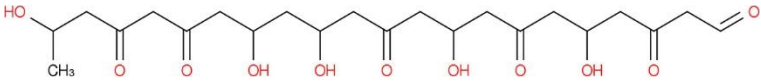
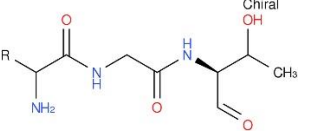
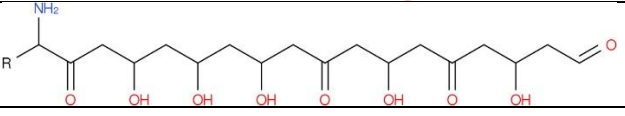
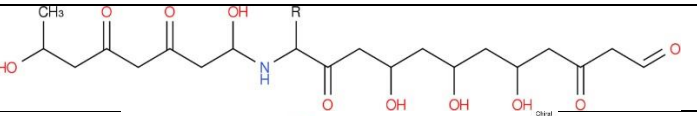
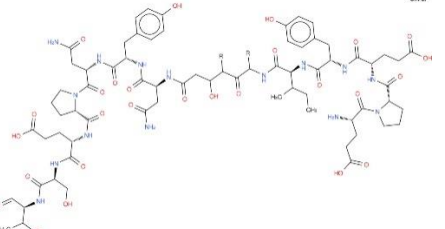
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100731</b>				
Cluster 1	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks	22266	Bacillaene biosynthetic gene cluster (78% of genes show similarity)	-
Cluster 3	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Bacteriocin	13078	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks	75781	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	Terpene	20740	-	-
Cluster 10	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 11	Lasso peptide	22221	-	-
Cluster 12	Transatpks-Nrps	60356	Bacillaene biosynthetic gene cluster (42% of genes show similarity)	
Cluster 13	Transatpks-Nrps	134616	Fengycin biosynthetic gene cluster (93% of genes show similarity)	

Table S1. Continued.

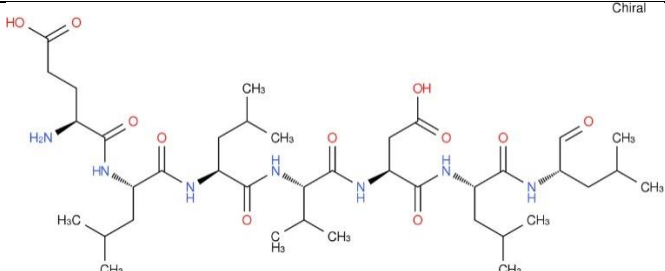
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100731</b>				
Cluster 14	Thiopeptide	22491	-	-
Cluster 15	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	<div>  <p>Chiral</p> </div>

Table S1. Continued.

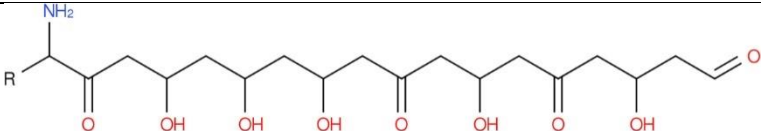
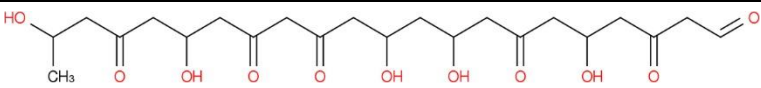
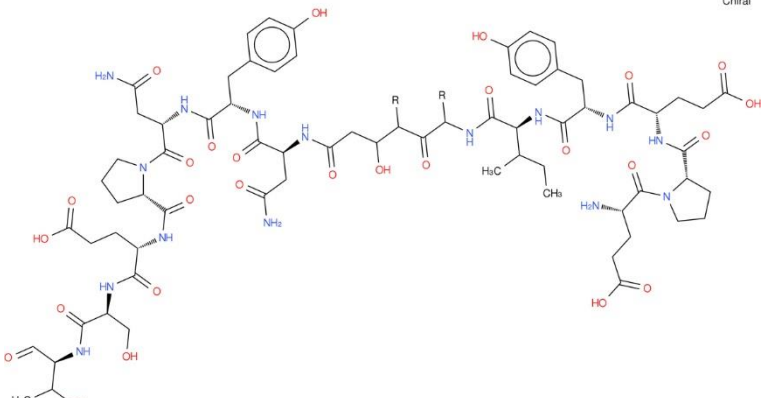
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100730</b>				
Cluster 1	Bacteriocin	13078	-	-
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Transatpks	75781	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Thiopeptide	22368	-	-
Cluster 7	Terpene	21883	-	-
Cluster 8	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	
Cluster 9	Lasso peptide	22221	-	-
Cluster 10	Transatpks	22266	Bacillaene biosynthetic gene cluster (78% of genes show similarity)	-
Cluster 11	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Transatpks-Nrps	134616	Fengycin biosynthetic gene cluster (93% of genes show similarity)	

Table S1. Continued.

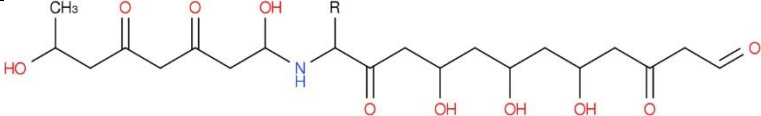
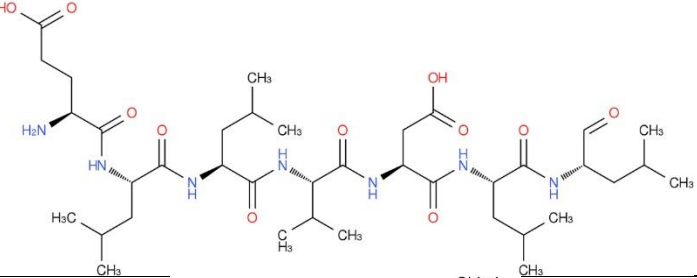
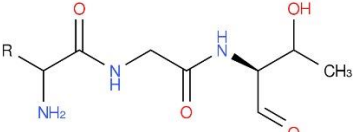
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100730</b>				
Cluster 13	Transatpks-Nrps	60217	Bacillaene biosynthetic gene cluster (42% of genes show similarity)	
Cluster 14	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 15	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

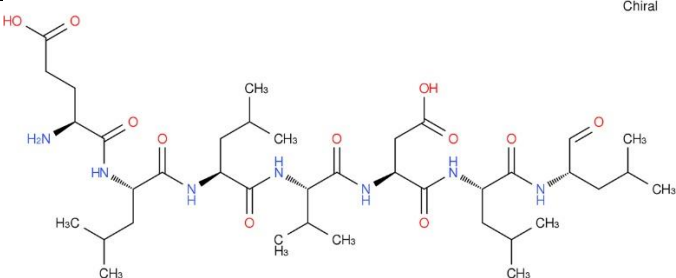
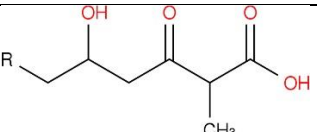
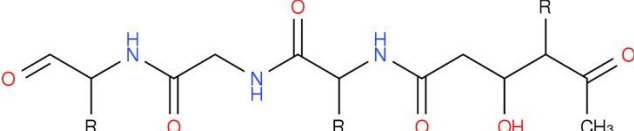
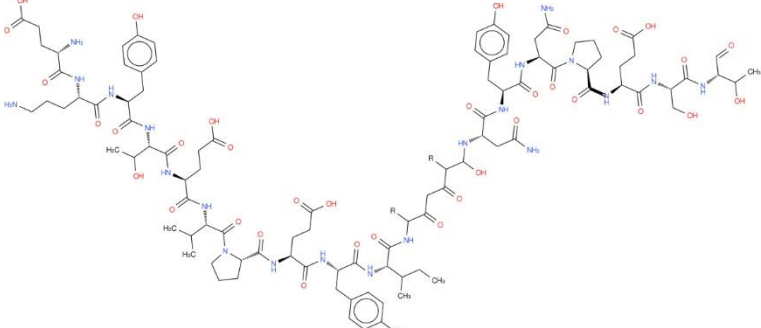
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SQR9</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Transatpks-T1pks	110709	Phormidolide biosynthetic gene cluster (26% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85890	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102671	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137813	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

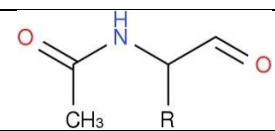
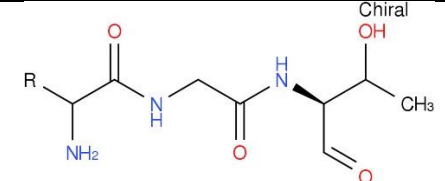
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SQR9</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

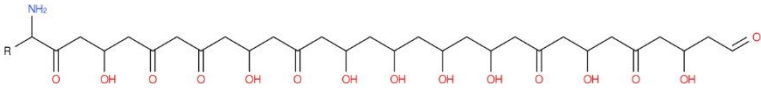
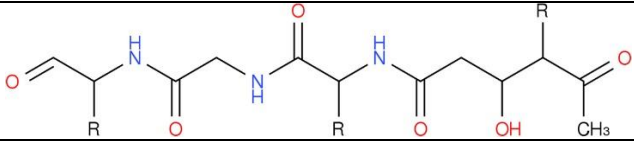
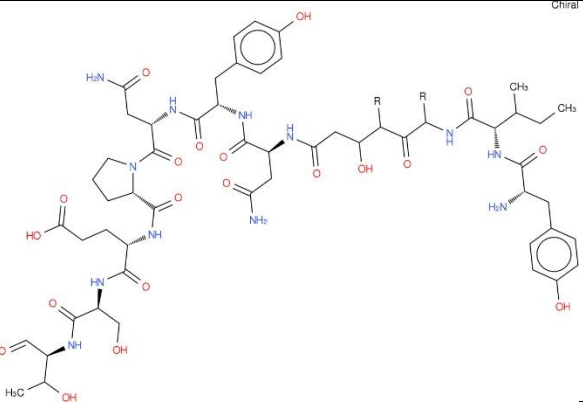
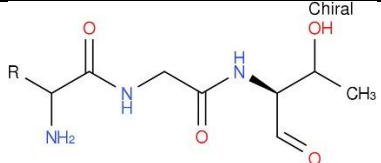
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KCTC 13012</b>				
Cluster 1	Terpene	21883	-	-
Cluster 2	T3pks	41100	-	-
Cluster 3	Transatpks	100473	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Terpene	20740	-	-
Cluster 7	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 8	Transatpks-Nrps	88416	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 9	Nrps	23335	-	-
Cluster 10	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KCTC 13012</b>				
Cluster 11	Phosphonate	40884	-	-
Cluster 12	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 14	Nrps	42050	-	-
Cluster 15	Nrps	27660	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 16	Nrps	2587	-	-
Cluster 17	Nrps	25221	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 18	Nrps	1961	-	-
Cluster 19	Nrps	14360	Fengycin biosynthetic gene cluster (33% of genes show similarity)	
Cluster 20	Nrps	9008	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

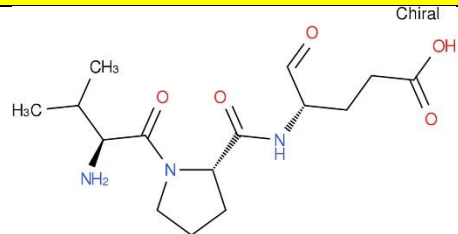
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KCTC 13012</b>				
Cluster 21	Nrps	10378	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 22	Nrps	1883	-	-

Table S1. Continued.

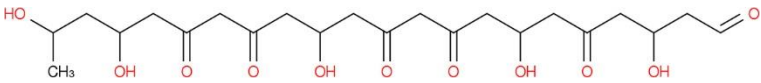
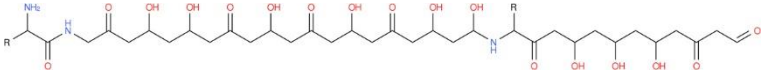
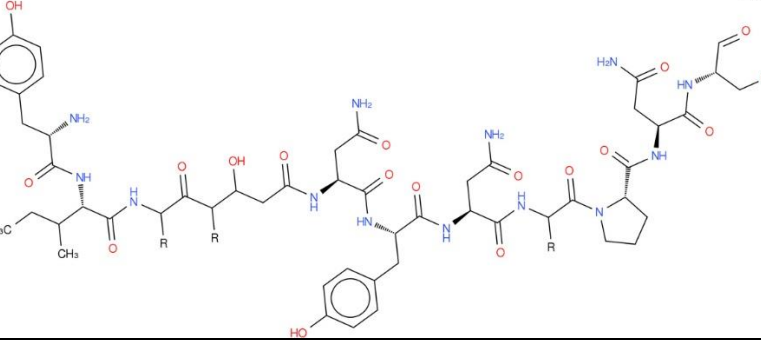
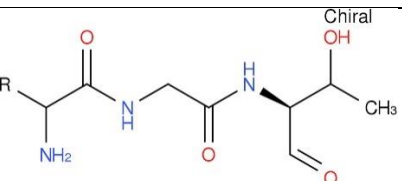
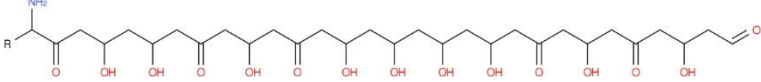
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NB91</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85884	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102698	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	88134	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100438	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

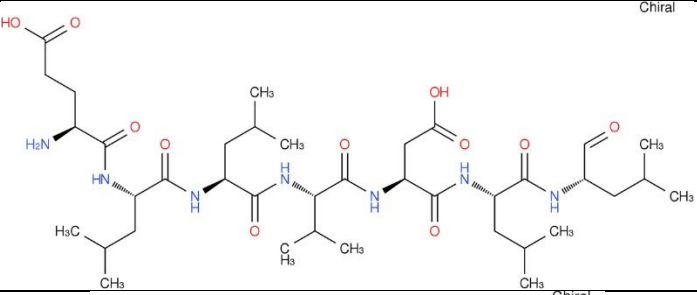
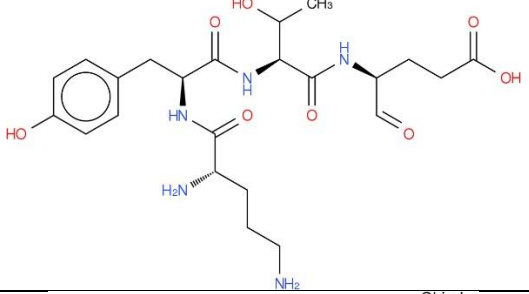
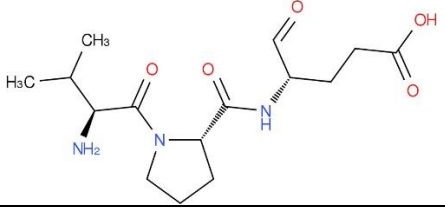
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NB91</b>				
Cluster 11	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 12	Nrps	15277	Fengycin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 13	Nrps	9685	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 14	Nrps	8965	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-

Table S1. Continued.

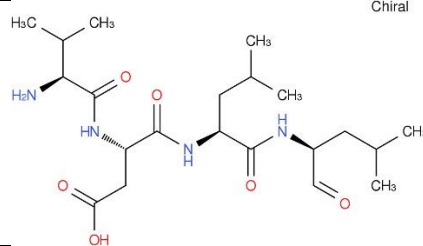
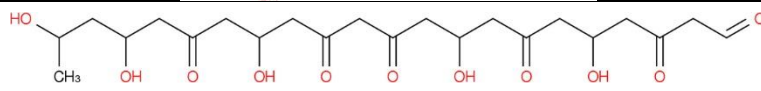
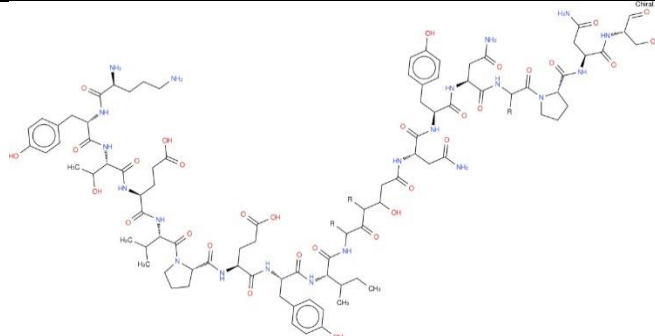
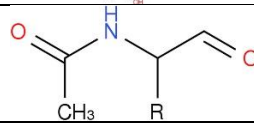
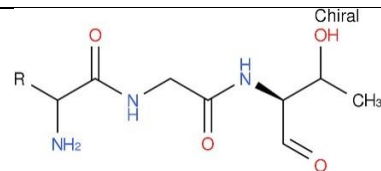
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 13105</b>				
Cluster 1	Nrps	36146	Surfactin biosynthetic gene cluster (39% of genes show similarity)	
Cluster 2	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Terpene	21883	-	-
Cluster 4	Nrps	23186	Plipastatin biosynthetic gene cluster (38% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	114098	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 6	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	T3pks	41100	-	-
Cluster 8	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

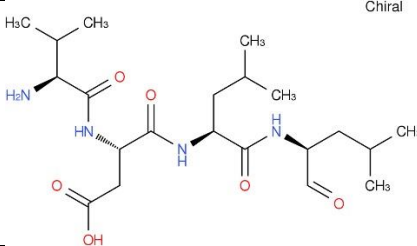
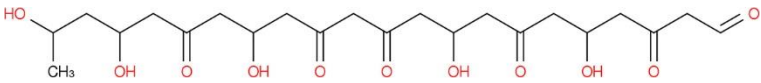
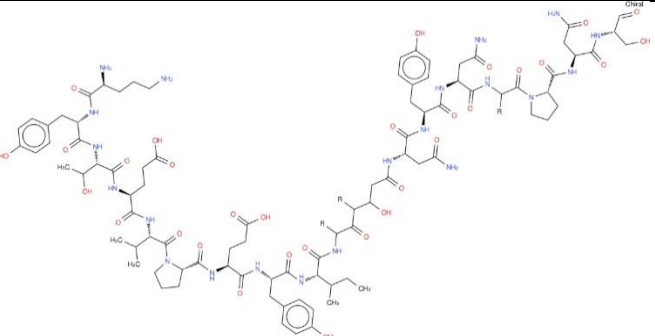
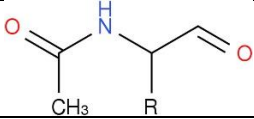
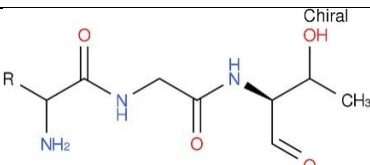
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 13105</b>				
Cluster 9	Nrps	36146	Surfactin biosynthetic gene cluster (39% of genes show similarity)	
Cluster 10	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Terpene	21883	-	-
Cluster 12	Nrps	23186	Plipastatin biosynthetic gene cluster (38% of genes show similarity)	-
Cluster 13	Transatpks-Nrps	114098	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 14	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	T3pks	41100	-	-
Cluster 16	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

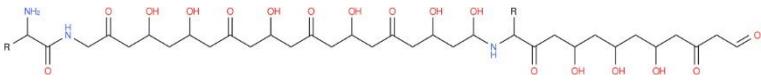
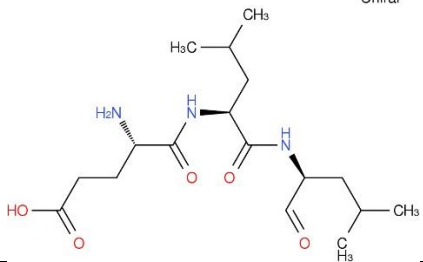
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>KACC 13105</b>				
Cluster 17	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 18	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 19	Nrps	29170	Surfactin biosynthetic gene cluster (52% of genes show similarity)	
Cluster 20	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 21	Terpene	20740	-	-
Cluster 22	Lantipeptide	28888	-	-

Table S1. Continued.

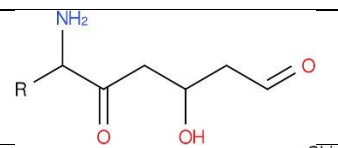
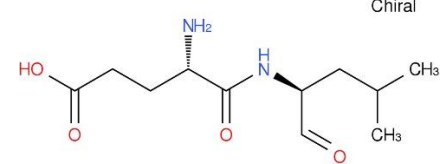
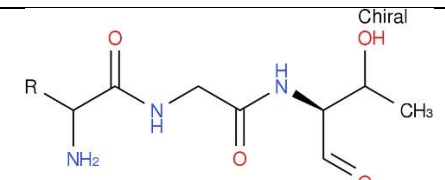
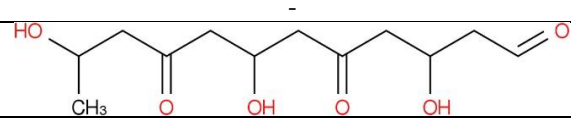
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034340</b>				
Cluster 1	Terpene	20740	-	-
Cluster 2	Transatpks	28132	Difficidin biosynthetic gene cluster (46% of genes show similarity)	 <chem>NC(=O)C(R)C(=O)C(O)C=O</chem>
Cluster 3	Nrps	27638	Surfactin biosynthetic gene cluster (47% of genes show similarity)	 <chem>NC(=O)C(R)C(=O)C(O)C(=O)N[C@@H](C)C(=O)C=O</chem>
Cluster 4	Nrps	25179	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 5	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <chem>NC(=O)C(R)C(=O)N[C@@H](C)C(=O)C=O</chem>
Cluster 7	Lantipeptide-Nrps	38496	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-
Cluster 8	Nrps	22475	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	45652	Difficidin biosynthetic gene cluster (53% of genes show similarity)	 <chem>NC(=O)C(R)C(=O)C(O)C(=O)C(O)C=O</chem>
Cluster 12	Transatpks-Nrps	32808	-	-



Table S1. Continued.

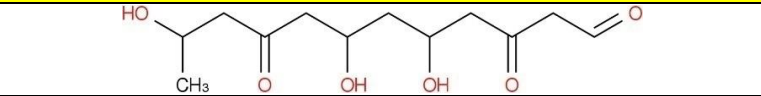
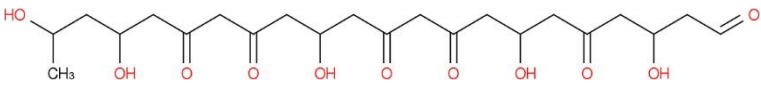
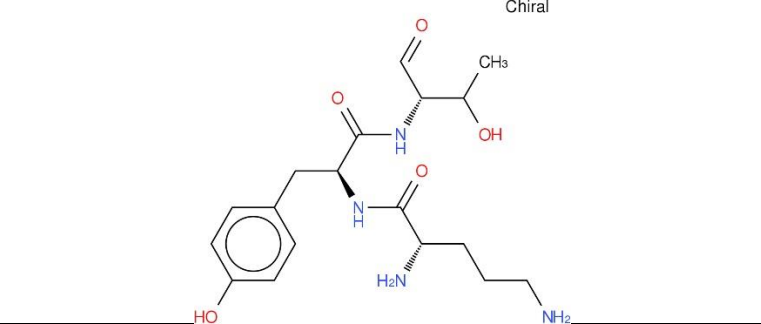
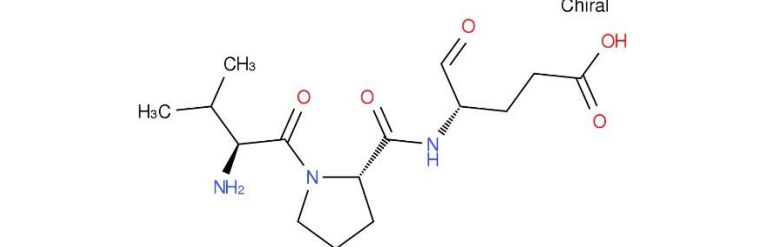
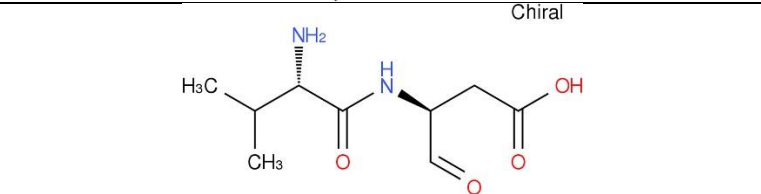
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034340</b>				
Cluster 13	Transatpks	23278	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 14	Transatpks	86193	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	Nrps	12704	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 16	Nrps	9119	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 17	Nrps	8944	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 18	Transatpks	8685	-	-
Cluster 19	Transatpks	7213	Bacillaene biosynthetic gene cluster (14% of genes show similarity)	-
Cluster 20	Nrps	6519	-	-

Table S1. Continued.

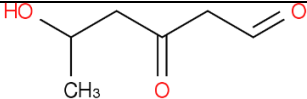
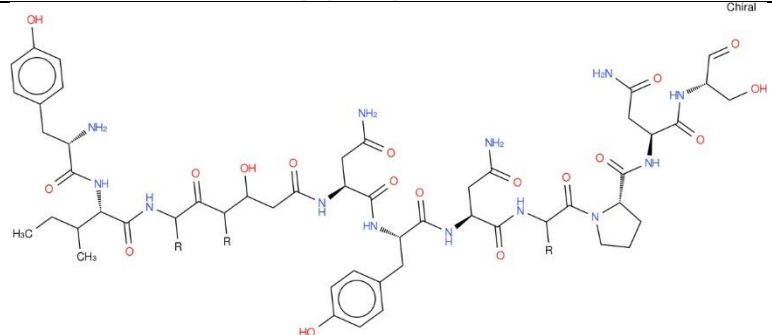
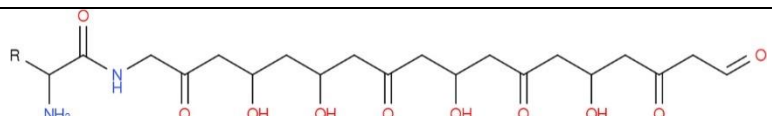
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034340</b>				
Cluster 21	Other	3084	-	-
Cluster 22	Transatpks	31155	Bacillaene biosynthetic gene cluster (28% of genes show similarity)	 <chem>CC(O)CC(=O)CC=O</chem>
Cluster 23	Transatpks-Nrps	87560	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 24	Nrps	1863	-	-
Cluster 25	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 26	Transatpks-Nrps	52635	Bacillaene biosynthetic gene cluster (85% of genes show similarity)	 <chem>NC(=O)C(R)CC(=O)CC(O)CC(=O)CC(O)CC(=O)CC(O)CC(=O)CC(O)CC(=O)CC=O</chem>

Table S1. Continued.

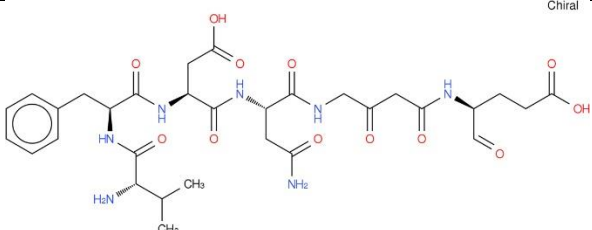
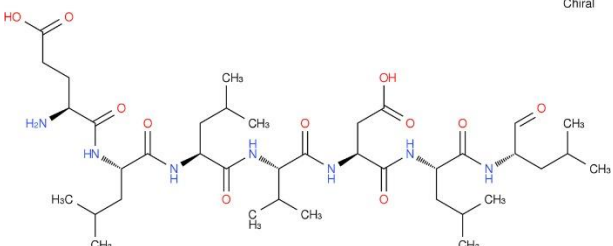
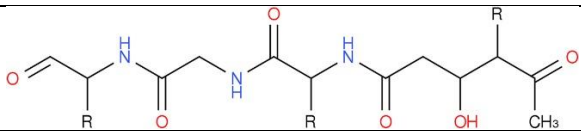
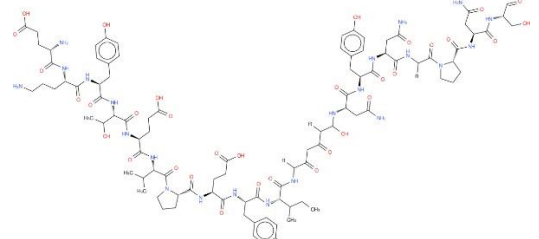
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NJN-6</b>				
Cluster 1	Transatpks-Nrps	77723	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 2	Nrps	65406	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102704	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	13828	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

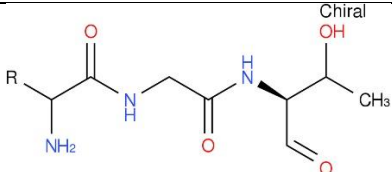
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NJN-6</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100438		
Cluster 12	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

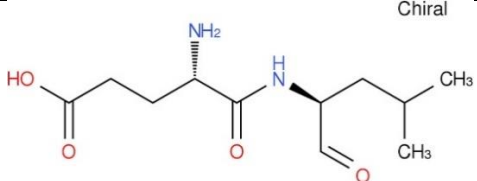
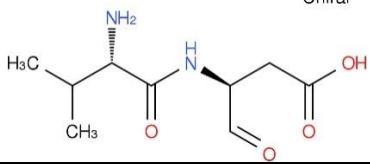
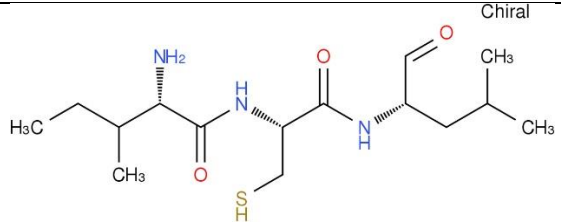
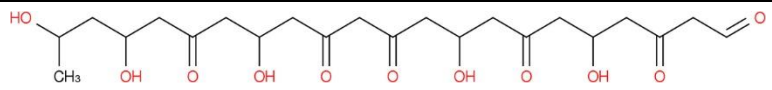
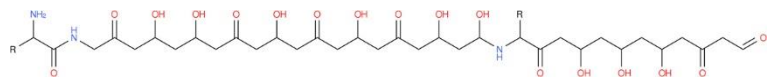
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GR4-5</b>				
Cluster 1	Nrps	28112	Surfactin biosynthetic gene cluster (43% of genes show similarity)	
Cluster 2	Nrps	12207	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 3	Nrps	25694	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 4	Ladderane	41121	-	-
Cluster 5	Nrps	27397	Bacitracin biosynthetic gene cluster (55% of genes show similarity)	
Cluster 6	Other	22533	Bacitracin biosynthetic gene cluster (33% of genes show similarity)	-
Cluster 7	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 8	Terpene	20740	-	-
Cluster 9	Transatpkps	85890	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Transatpkps-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

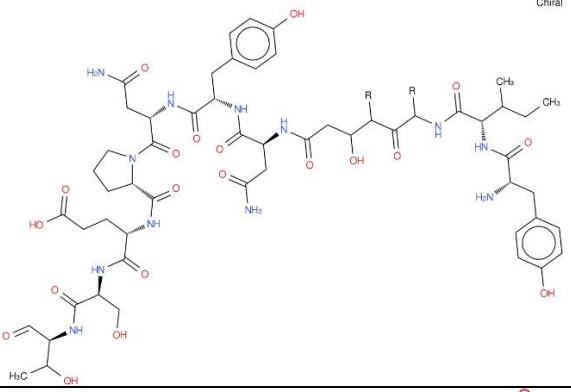
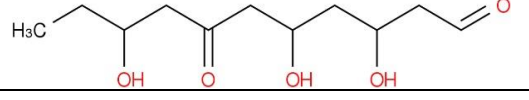
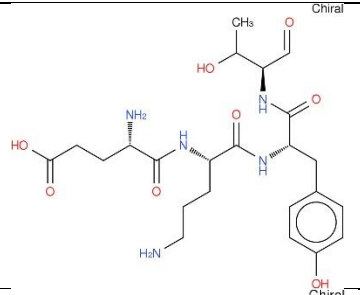
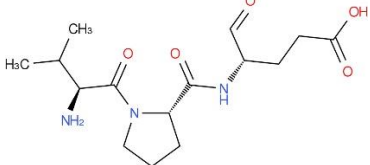
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GR4-5</b>				
Cluster 11	Transatpks-Nrps	88084	Fengycin_biosynthetic_gene_cluster (80% of genes show similarity)	
Cluster 12	Transatpks	24569	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 13	Nrps	6577	Bacitracin biosynthetic gene cluster (33% of genes show similarity)	-
Cluster 14	Nrps	1880	-	-
Cluster 15	Nrps	15022	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 16	Nrps	10690	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

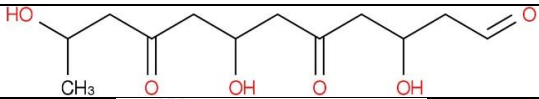
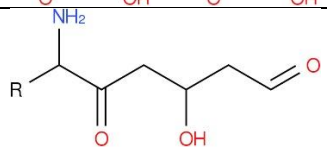
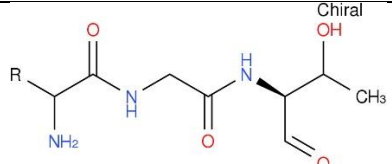
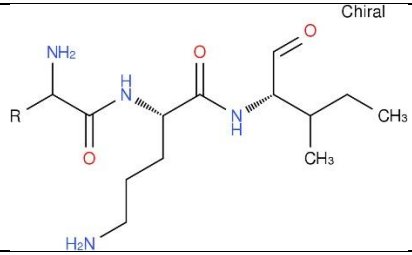
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GR4-5</b>				
Cluster 17	Nrps	21836	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 18	Terpene	41883	-	-
Cluster 19	T3pks	41100	-	-
Cluster 20	Transatpks	47216	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 21	Transatpks	28411	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 22	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 23	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 24	Nrps	13235	Bacitracin biosynthetic gene cluster (33% of genes show similarity)	
Cluster 25	Nrps	4143	-	-

Table S1. Continued.

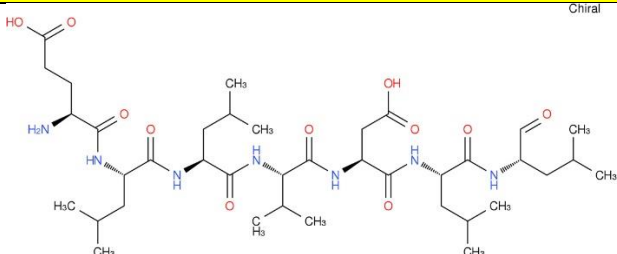
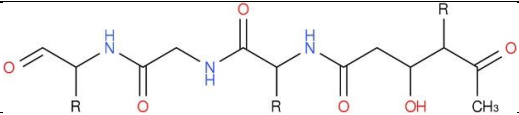
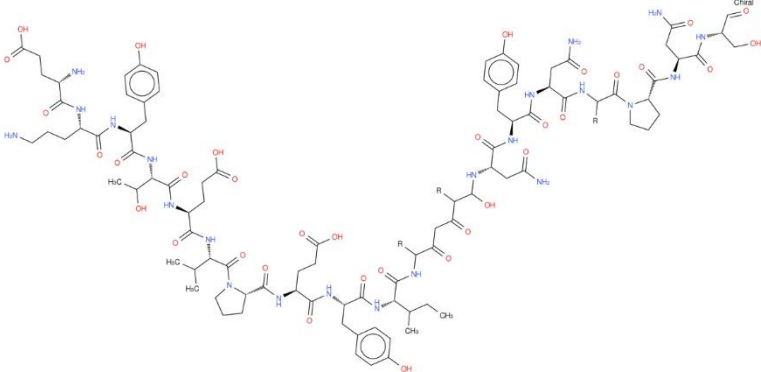
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>M75</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Thiopeptide	27301	Kijanamicin biosynthetic gene cluster (4% of genes show similarity)	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Transatpks	85884	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137829	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Terpene	21883	-	-



Table S1. Continued.

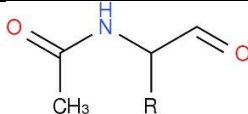
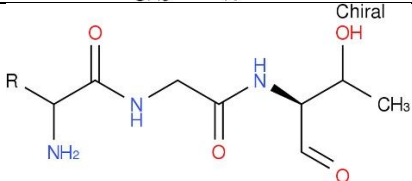
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>M75</b>				
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	 <chem>CC(=O)NC(R)C=O</chem>
Cluster 12	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <chem>R[C@H](N)C(=O)NCC(=O)N[C@H](C)C(=O)O</chem>
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

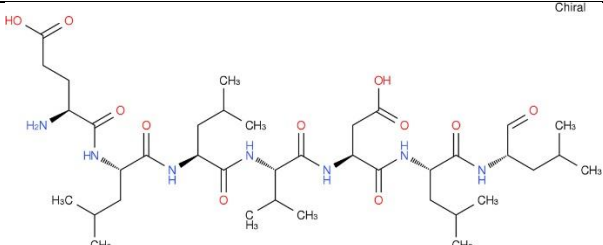
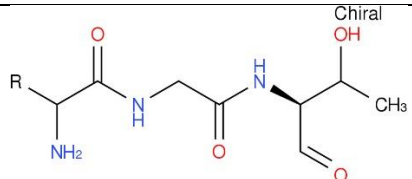
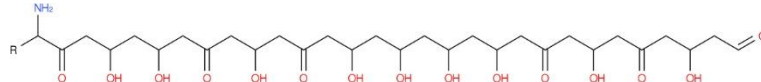
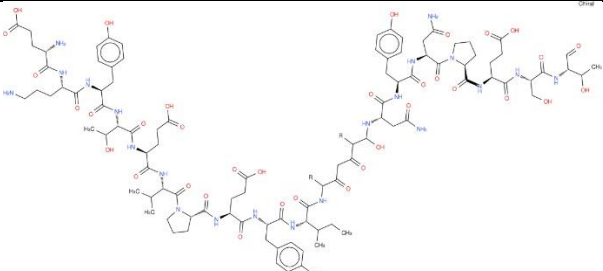
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GB1</b>				
Cluster 1	Phosphonate	40884	-	-
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 3	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Nrps	68420	-	-
Cluster 6	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	T3pks	24956	-	-
Cluster 9	Terpene	21883	-	-
Cluster 10	Transatpks-Nrps	137832	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

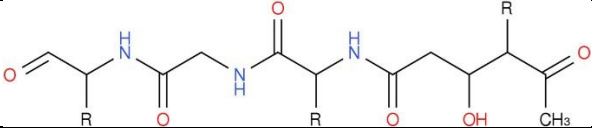
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GB1</b>				
Cluster 11	Transatpks-Nrps	102680	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Terpene	20740	-	-
Cluster 14	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-

Table S1. Continued.

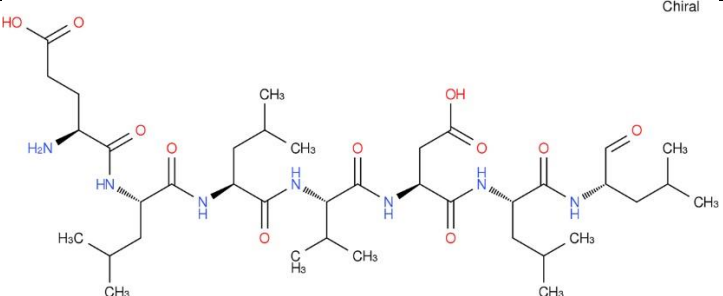
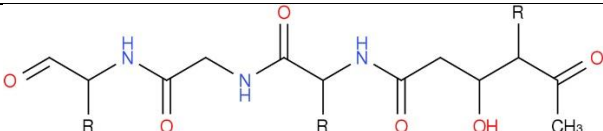
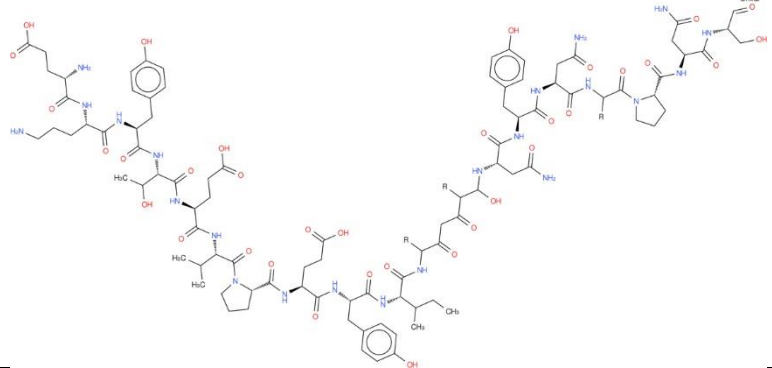
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JTYP2</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28888	-	-
Cluster 5	Transatpks	85904	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137801	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-

Table S1. Continued.

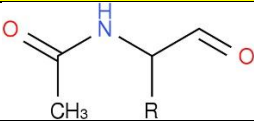
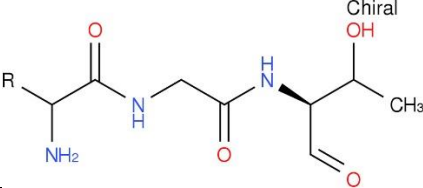
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JTYP2</b>				
Cluster 10	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

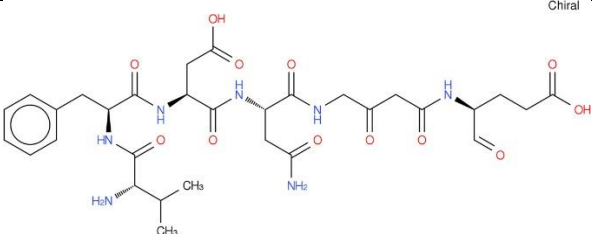
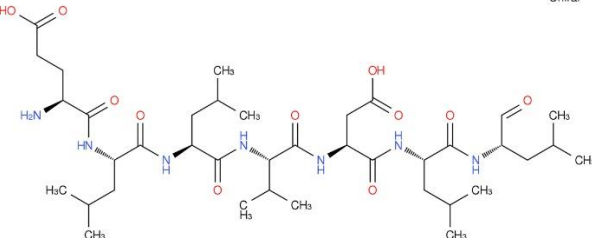
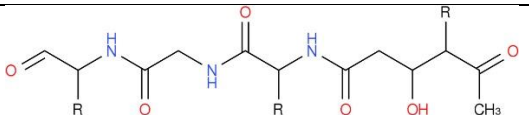
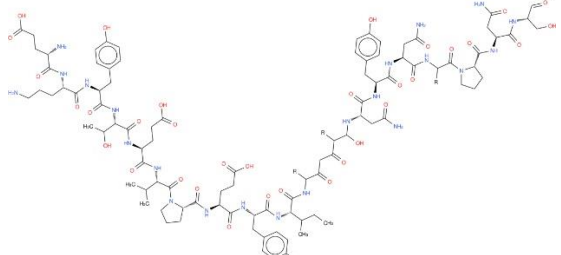
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>HJ18-4</b>				
Cluster 1	Transatpks-Nrps	77723	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	 <p>Chiral</p>
Cluster 2	Nrps	65434	Surfactin biosynthetic gene cluster (78% of genes show similarity)	 <p>Chiral</p>
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Transatpks	85890	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102689	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137838	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

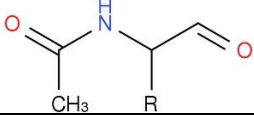
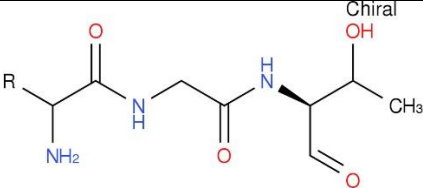
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>HJ18-4</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100435	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

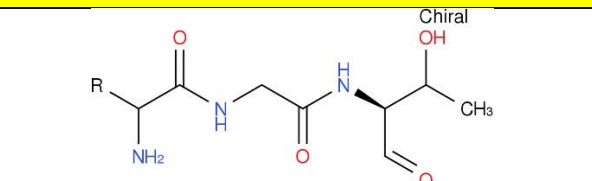
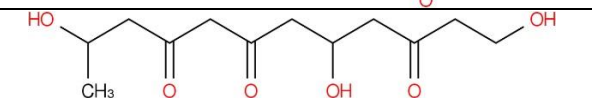
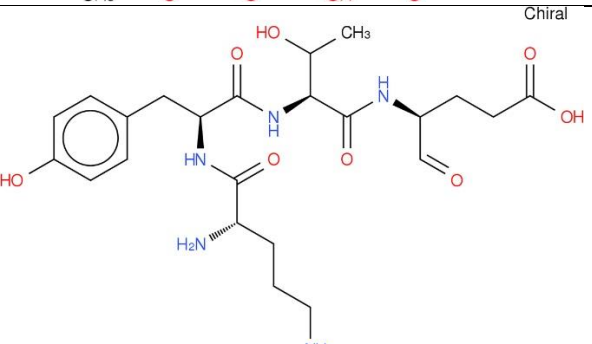
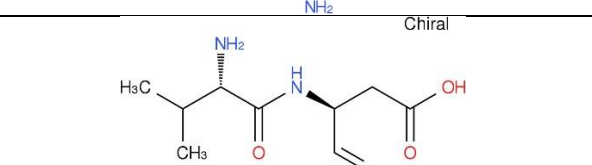
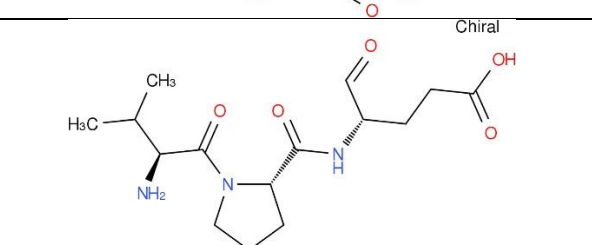
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034339</b>				
Cluster 1	Bacteriocin-Nrps	66055	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks	23024	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 3	Nrps	13961	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 4	Nrps	10021	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 5	Nrps	9308	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 6	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-



Table S1. Continued.

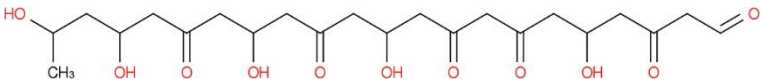
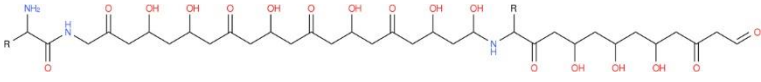
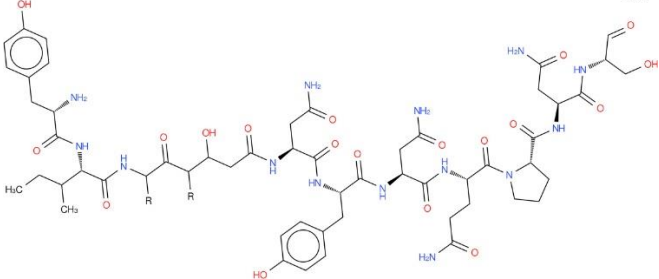
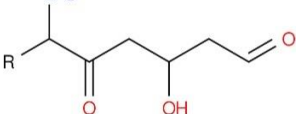
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034339</b>				
Cluster 7	Terpene	20740	-	-
Cluster 8	Transatpks	85892	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Transatpks-Nrps	102671	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Transatpks-Nrps	87722	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 11	Transatpks	28377	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Nrps	39773	-	-
Cluster 14	Lantipeptide	27057	Subtilin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 15	T3pks	41100	-	-
Cluster 16	Terpene	21883	-	-
Cluster 17	Nrps	23565	Plipastatin biosynthetic gene cluster (38% of genes show similarity)	-
Cluster 18	Nrps	25682	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-

Table S1. Continued.

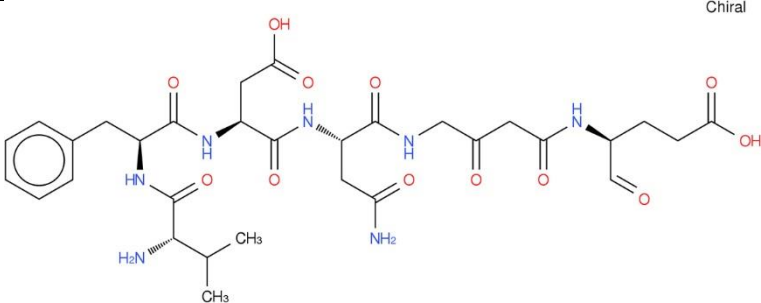
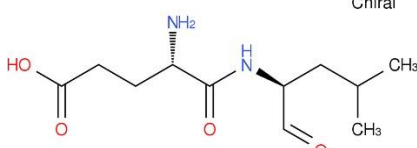
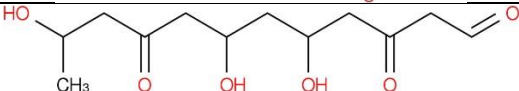
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CFSAN034339</b>				
Cluster 19	Transatpks-Nrps	77735	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 20	Nrps	28212	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 21	Transatpks	46427	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

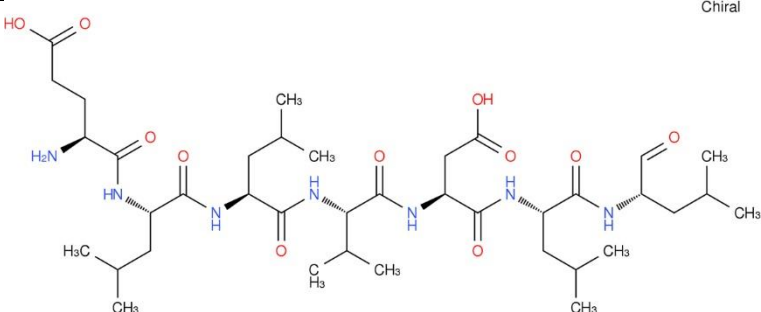
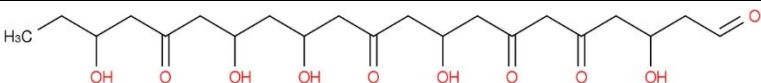
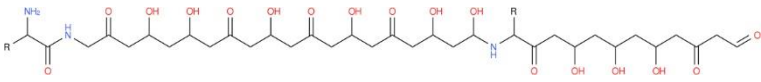
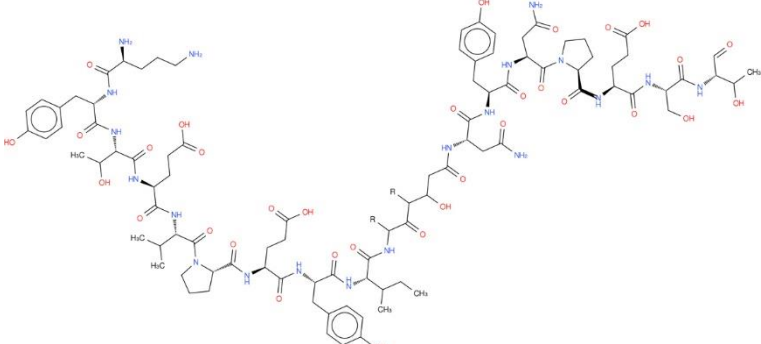
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CH13</b>				
Cluster 1	Nrps	65632	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	114360	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 7	Nrps	22514	Plipastatin_biosynthetic_gene_c luster (30% of genes show similarity)	-
Cluster 8	Terpene	21883	-	-

Table S1. Continued.

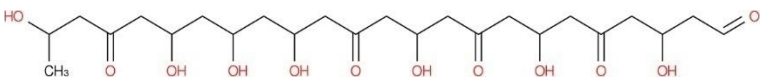
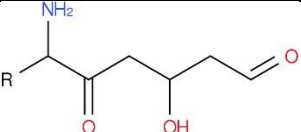
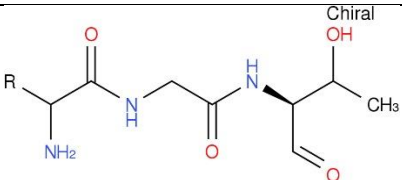
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CH13</b>				
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	71039	Difficidin biosynthetic gene cluster (66% of genes show similarity)	
Cluster 11	Transatpks	28584	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 12	Nrps	30002	-	-
Cluster 13	Nrps	22198	-	-
Cluster 14	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 15	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

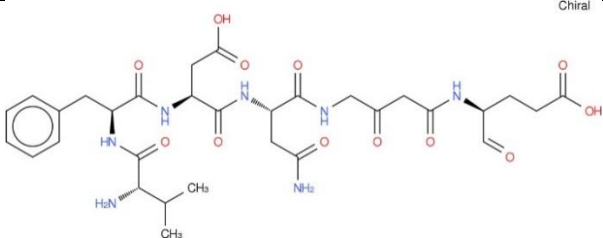
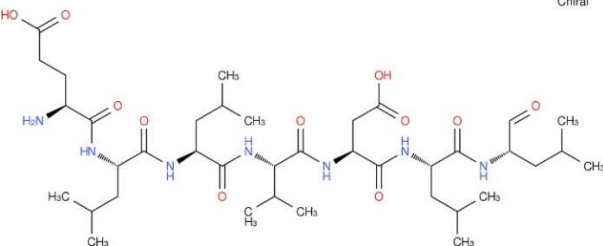
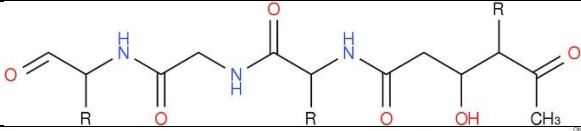
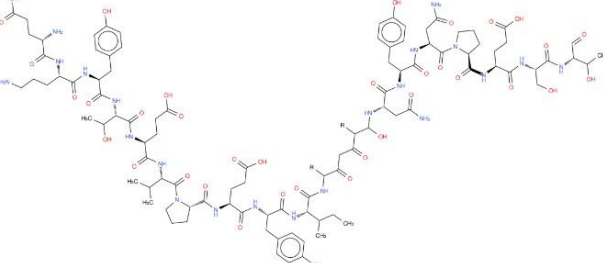
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GHI-13</b>				
Cluster 1	Transatpks-Nrps	77727	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 2	Nrps	65410	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85884	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137853	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

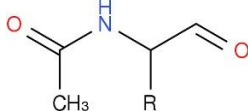
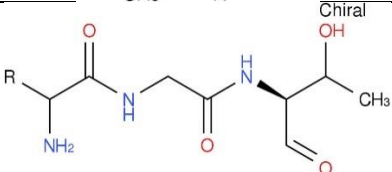
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GHI-13</b>				
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chemical structure of Difficidin, a cyclic peptide antibiotic. It features a central ring with an amide group (CH<sub>3</sub>-C(=O)-NH-) and a side chain containing a chiral center (R) and a terminal aldehyde group (-CHO).</p>
Cluster 11	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chemical structure of Bacillibactin, a cyclic peptide antibiotic. It features a central ring with an amide group (NH-C(=O)-) and a side chain containing a chiral center (CH<sub>3</sub>-CH(OH)-) and a terminal aldehyde group (-CHO). The structure is labeled with 'Chiral' and 'OH'.</p>
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Lantipeptide	23983	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

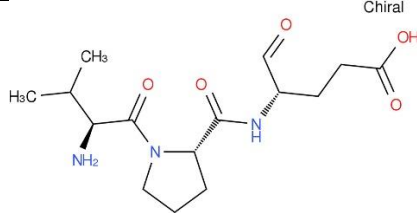
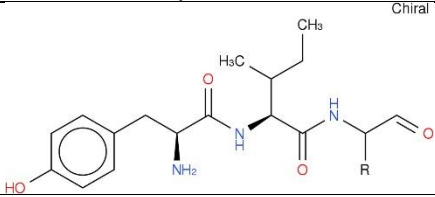
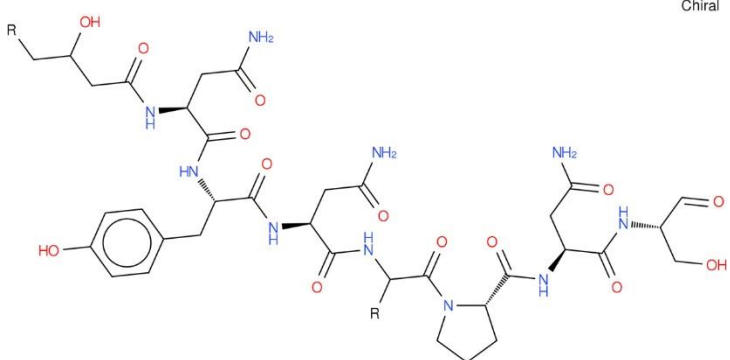
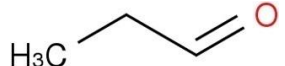
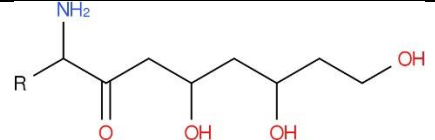
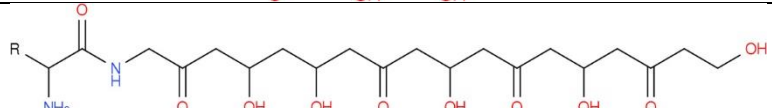
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AH159-1</b>				
Cluster 1	Nrps	9337	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 2	Nrps	29784	Fengycin biosynthetic gene cluster (73% of genes show similarity)	
Cluster 3	Transatpks-Nrps	41926	Bacillomycin biosynthetic gene cluster (60% of genes show similarity)	
Cluster 4	Transatpks	10567	Bacillaene biosynthetic gene cluster (14% of genes show similarity)	
Cluster 5	Transatpks-Nrps	21950	Bacillaene biosynthetic gene cluster (35% of genes show similarity)	
Cluster 6	Transatpks-Nrps	47403	Bacillaene biosynthetic gene cluster (85% of genes show similarity)	

Table S1. Continued.

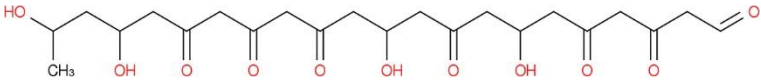
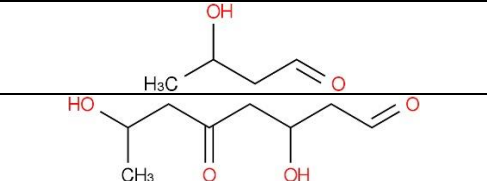
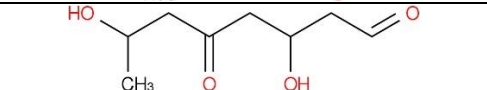
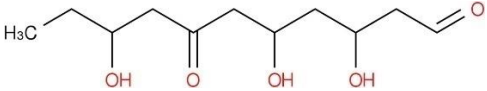
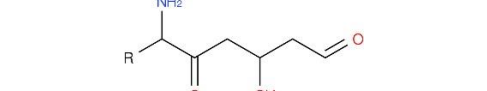
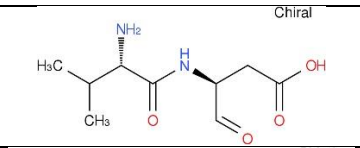
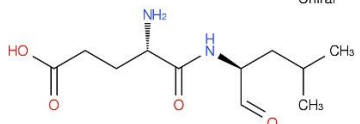
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AH159-1</b>				
Cluster 7	Transatpks	71015	Macrolactin biosynthetic gene cluster (90% of genes show similarity)	
Cluster 8	Terpene	15536	-	-
Cluster 9	Nrps	2846	-	-
Cluster 10	Terpene	14261	-	-
Cluster 11	T3pks	15359	-	-
Cluster 12	Transatpks	30066	Difficidin biosynthetic gene cluster (33% of genes show similarity)	
Cluster 13	Transatpks	15801	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 14	Transatpks	22943	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 15	Transatpks	14496	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 16	Lantipeptide	2029	-	-
Cluster 17	Other	24406	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 18	Nrps	7132	Surfactin biosynthetic gene cluster (21% of genes show similarity)	-
Cluster 19	Nrps	9506	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 20	Nrps	27847	Surfactin biosynthetic gene cluster (47% of genes show similarity)	



Table S1. Continued.

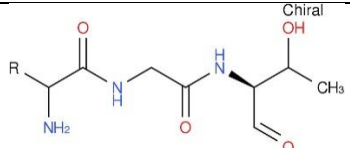
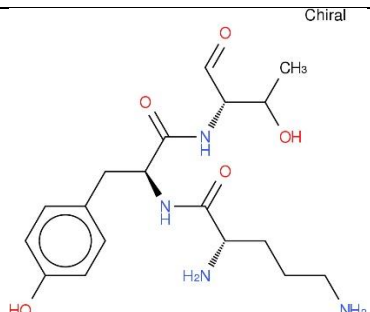
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>AH159-1</b>				
Cluster 21	Bacteriocin	8561	Amylocyclicin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 22	Nrps	30192	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 23	Ladderane	41121	-	-
Cluster 24	Nrps	12665	Fengycin biosynthetic gene cluster (20% of genes show similarity)	

Table S1. Continued.

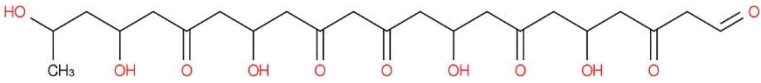
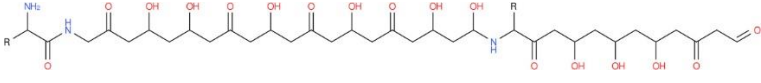
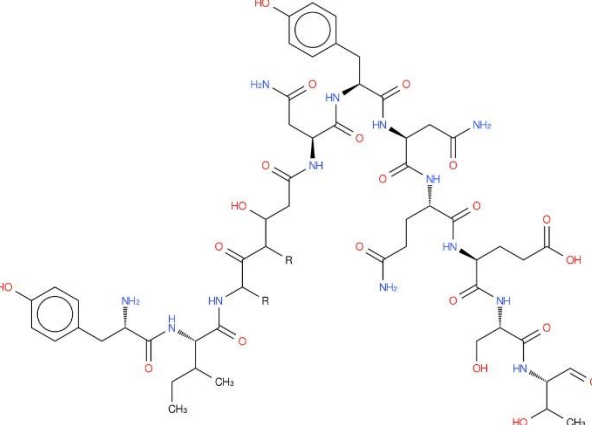
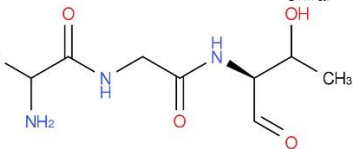
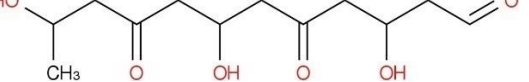
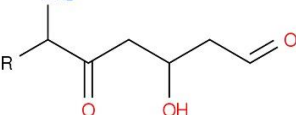
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>2A-2B</b>				
Cluster 1	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102686	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	87921	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 4	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Nrps	35335	-	-
Cluster 6	Terpene	21883	-	-
Cluster 7	T3pks	41100	-	-
Cluster 8	Transatpks	45760	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 9	Transatpks	28251	Difficidin biosynthetic gene cluster (46% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>2A-2B</b>				
Cluster 10	Terpene	20740	-	-
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 13	Nrps	24050	-	-
Cluster 14	Nrps	28056	Surfactin biosynthetic gene cluster (47% of genes show similarity)	<p>Chiral</p>
Cluster 15	Transatpks	22899	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 16	Nrps	15095	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 17	Nrps	12809	Fengycin biosynthetic gene cluster (26% of genes show similarity)	<p>Chiral</p>
Cluster 18	Nrps	9454	Fengycin biosynthetic gene cluster (20% of genes show similarity)	<p>Chiral</p>

Table S1. Continued.

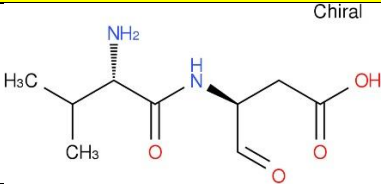
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>2A-2B</b>				
Cluster 19	Nrps	8988	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<div> <div>  <p>Chiral</p> </div> </div>
Cluster 20	Nrps	7816	-	-
Cluster 21	Nrps	1482	-	-
Cluster 22	Nrps	1413	-	-

Table S1. Continued.

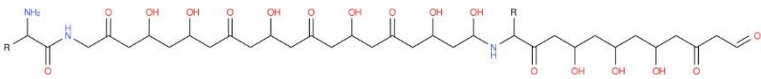
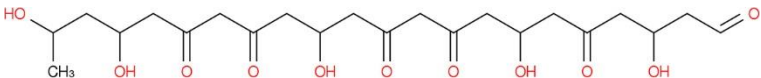
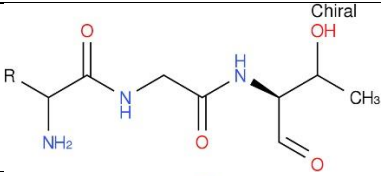
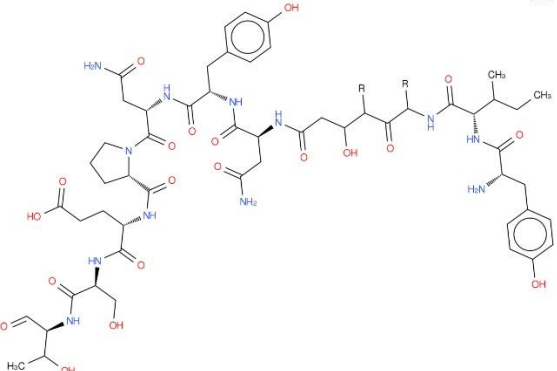
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>ARYD01000001</b>				
Cluster 1	Nrps	23248	-	-
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks-Nrps	99966	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks	45842	Difficidin biosynthetic gene cluster (53% of genes show similarity)	-
Cluster 7	T3pks	41100	-	-
Cluster 8	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Bacteriocin-Nrps	65849	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Transatpks-Nrps	88037	Fengycin biosynthetic gene cluster (86% of genes show similarity)	

Table S1. Continued.

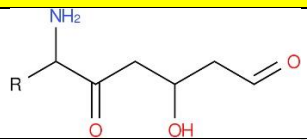
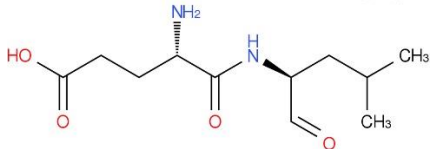
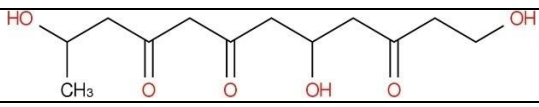
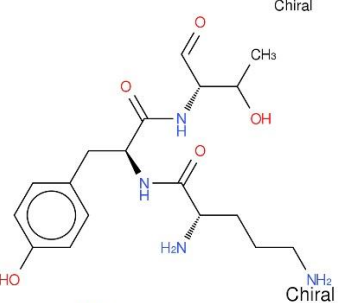
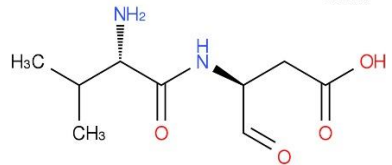
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>ARYD01000001</b>				
Cluster 11	Transatpks	28283	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 12	Nrps	27868	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 13	Phosphonate	40890	-	-
Cluster 14	Terpene	21883	-	-
Cluster 15	Nrps	21780	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 16	Transatpks	23101	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 17	Nrps	15228	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 18	Nrps	13069	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	9721	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

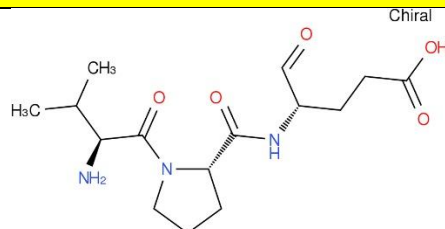
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>ARYD01000001</b>				
Cluster 20	Nrps	9091	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 21	Nrps	6895	-	-
Cluster 22	Nrps	6499	-	-

Table S1. Continued.

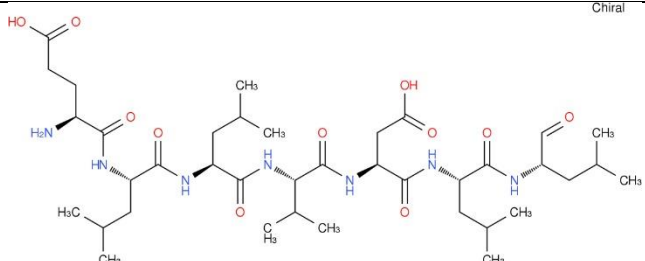
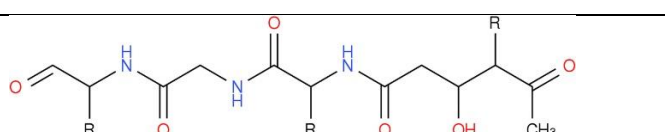
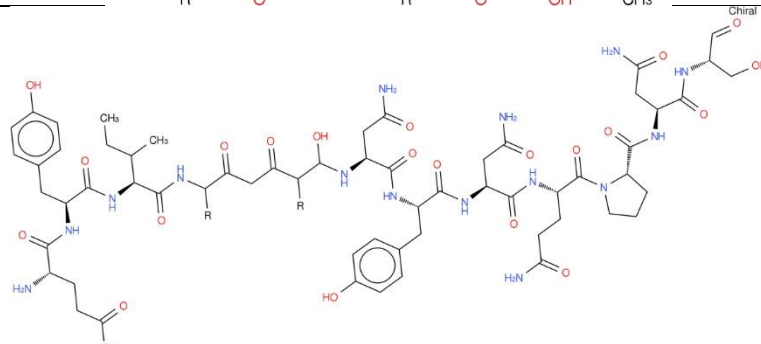
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>9D-6</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 3	Ladderane	41121	-	-
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Lantipeptide	28888	-	-
Cluster 7	Transatpks	85893	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 8	Transatpks-Nrps	102686	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Bacteriocin-Transatpks-Nrps	125093	Fengycin biosynthetic gene cluster (93% of genes show similarity)	



Table S1. Continued.

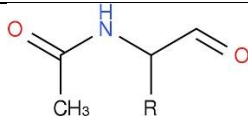
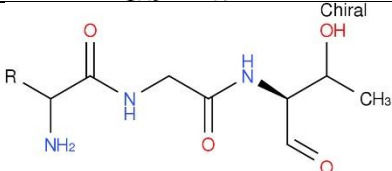
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>9D-6</b>				
Cluster 10	Terpene	21883	-	-
Cluster 11	T3pks	41100	-	-
Cluster 12	Transatpks	100453	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Bacteriocin-Nrps	66810	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

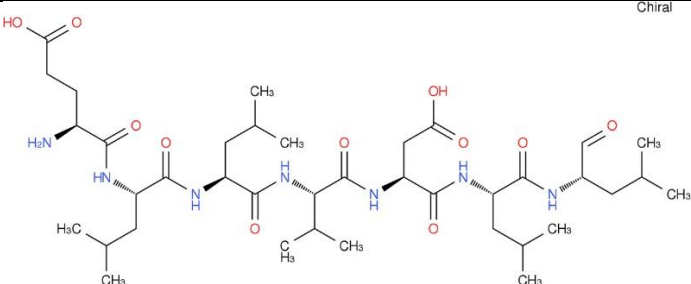
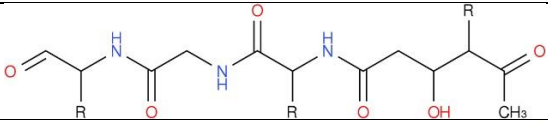
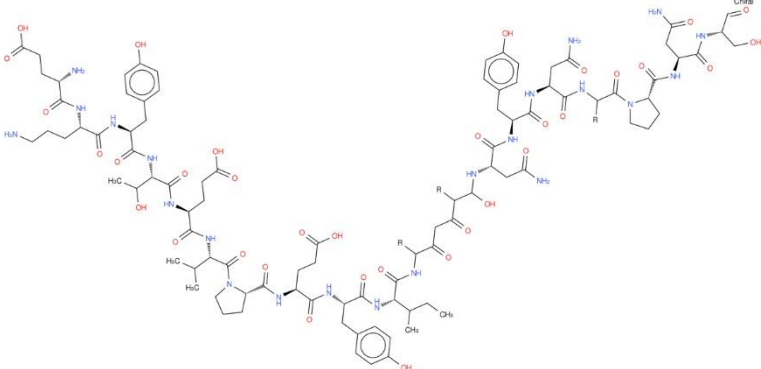
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GQJK49</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28888	-	-
Cluster 5	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102674	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137800	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-

Table S1. Continued.

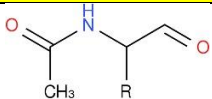
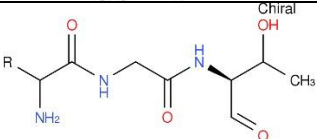
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GQJK49</b>				
Cluster 10	Transatpks	100452	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

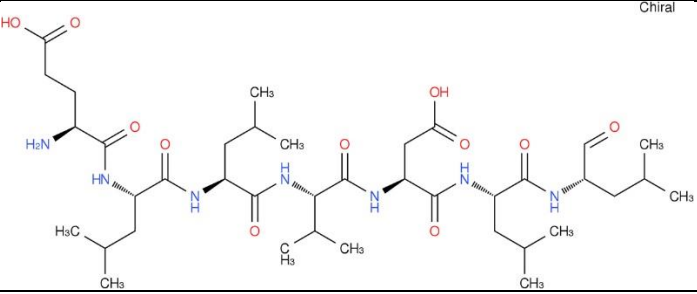
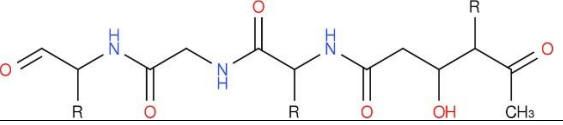
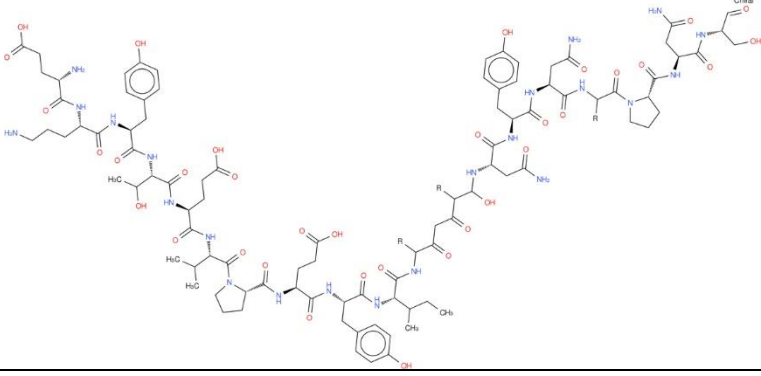
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>T20E-257</b>				
Cluster 1	Nrps	65410	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Lantipeptide	28889	-	-
Cluster 5	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102707	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137831	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-

Table S1. Continued.

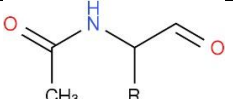
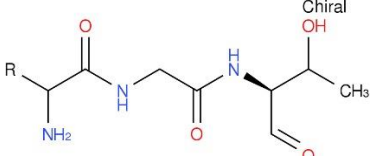
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>T20E-257</b>				
Cluster 10	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

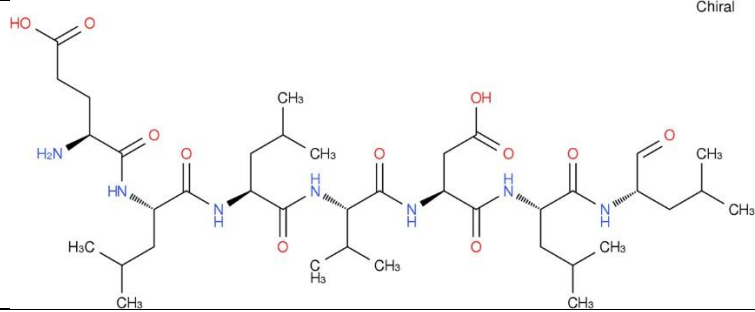
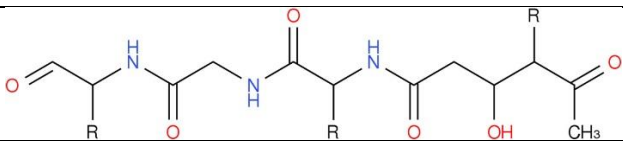
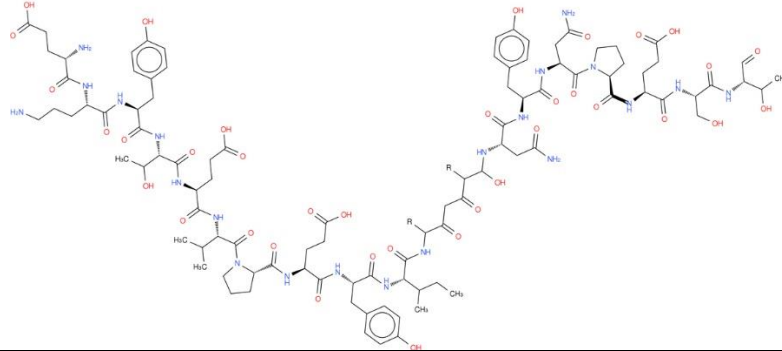
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>157</b>				
Cluster 1	Nrps	65407	Surfactin_biosynthetic_gene_cluster (82% of genes show similarity)	
Cluster 2	Phosphonate	40884	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	82191	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137833	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-

Table S1. Continued.

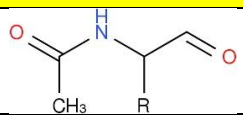

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>157</b>				
Cluster 10	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66795	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65342	-	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

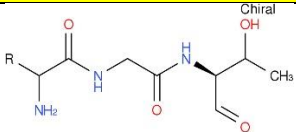
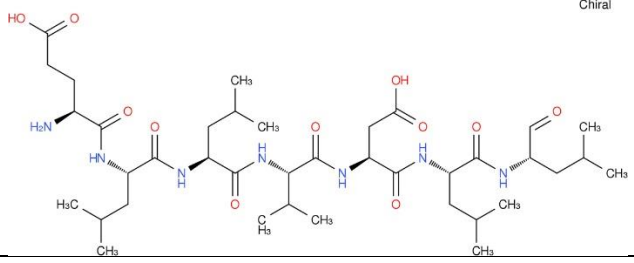
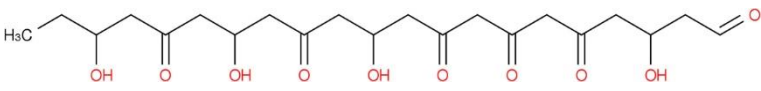
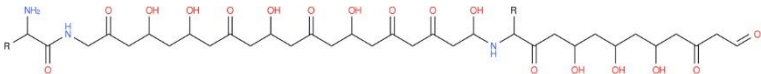
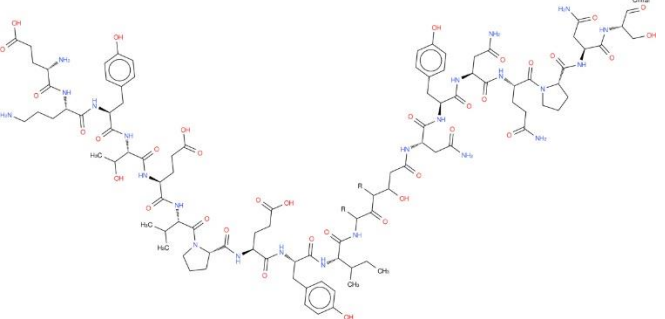
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TB1501</b>				
Cluster 1	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Transatpks	85900	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	102691	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137820	Fengycin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

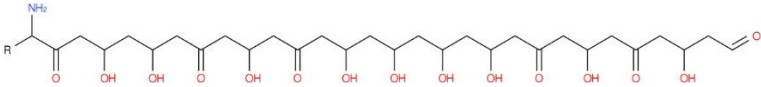
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TB1501</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100449	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

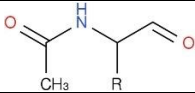
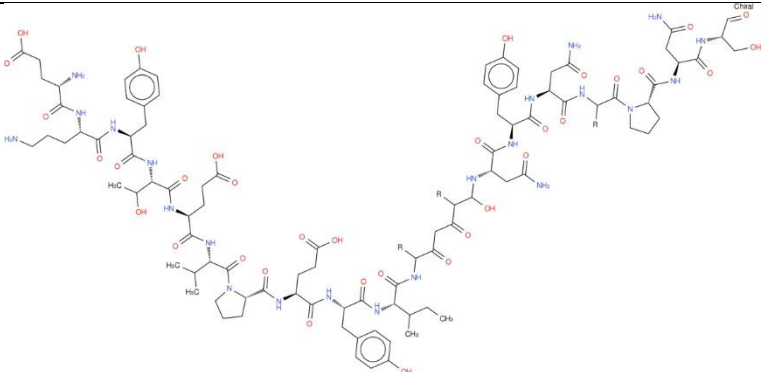
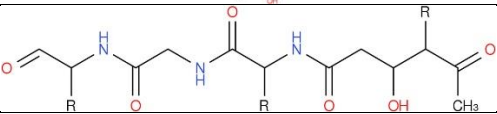
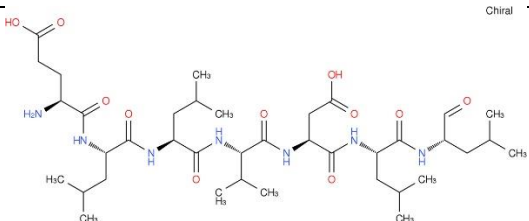
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NJAU-Z9</b>				
Cluster 1	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	T3pks	41100	-	-
Cluster 3	Terpene	21883	-	-
Cluster 4	Transatpks-Nrps	137830	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Lantipeptide	28889	-	-
Cluster 8	Terpene	20740	-	-
Cluster 9	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 10	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	

Table S1. Continued.

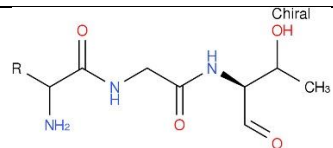
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NJAU-Z9</b>				
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 12	Bacteriocin-Nrps	66838	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

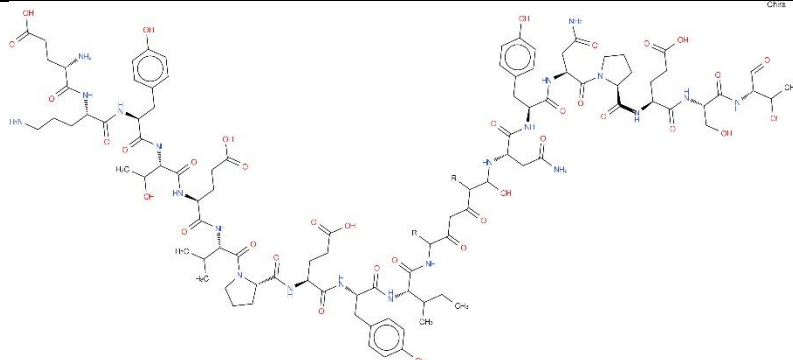
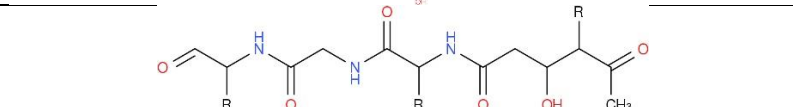
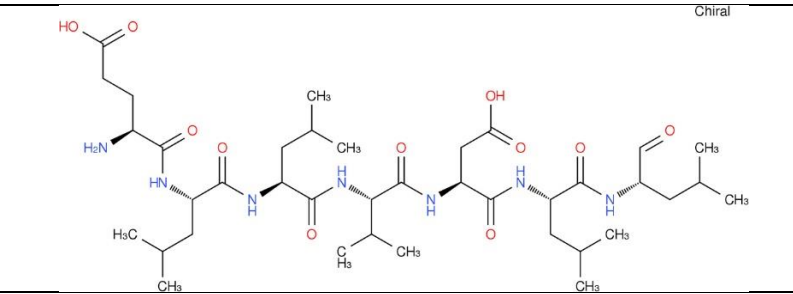
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCDB_291</b>				
Cluster 1	Terpene	21883	-	-
Cluster 2	Transatpks-Nrps	137836	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks	85890	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 7	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 8	Lantipeptide	22615	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-

Table S1. Continued.

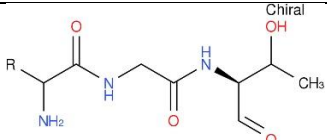
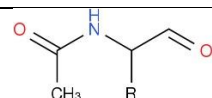
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCDB_291</b>				
Cluster 9	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Transatpks	100411	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	T3pks	41100	-	-

Table S1. Continued.

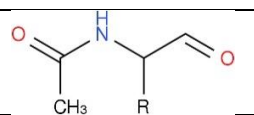
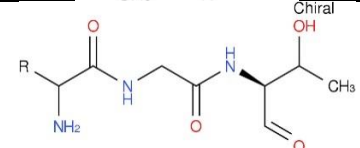
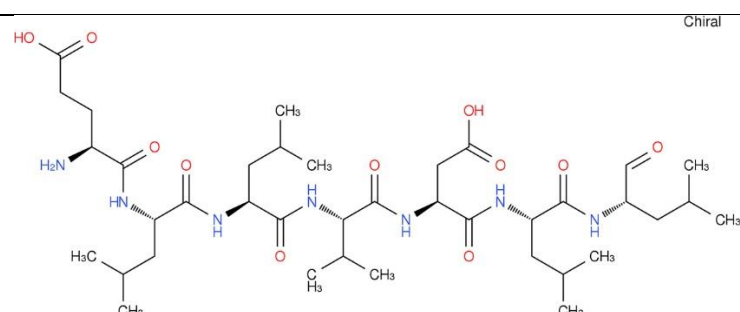
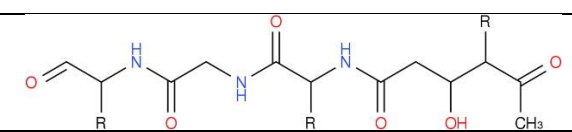
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCGB_1</b>				
Cluster 1	T3pks	41100	-	-
Cluster 2	Transatpks	100411	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Lantipeptide	22615	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	-
Cluster 6	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 7	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 8	Terpene	20740	-	-
Cluster 9	Transatpks	85890	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

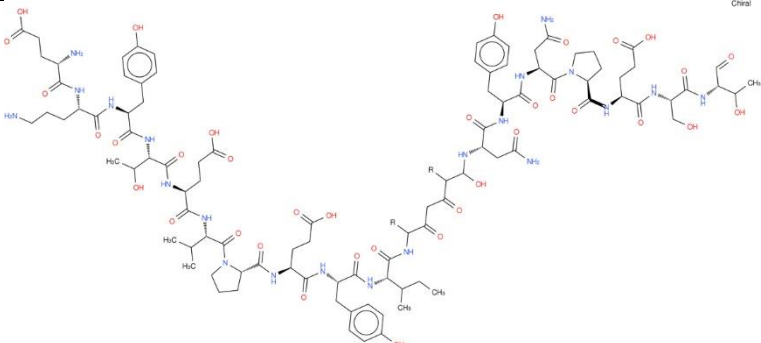
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCGB_1</b>				
Cluster 11	Transatpks-Nrps	137846	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Terpene	21883	-	-

Table S1. Continued.

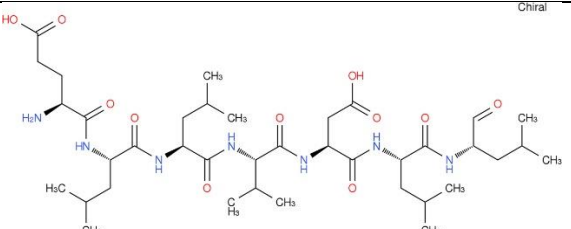
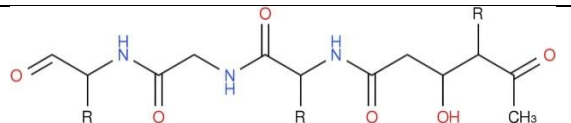
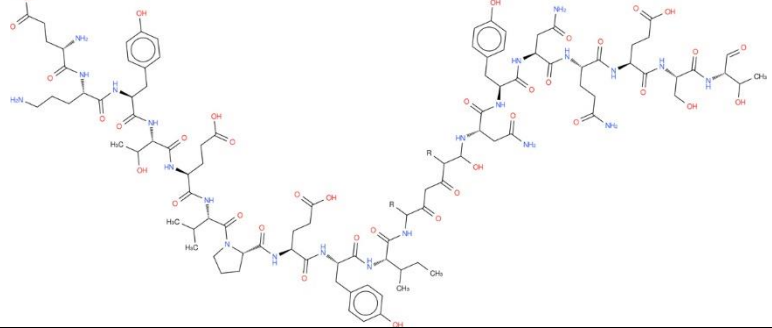
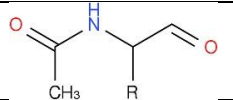
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>LABIM40</b>				
Cluster 1	Thiopeptide	26798	-	-
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85908	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102695	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137654	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

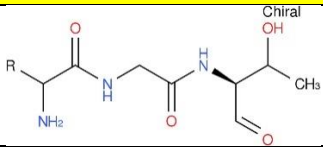
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>LABIM40</b>				
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

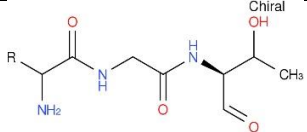
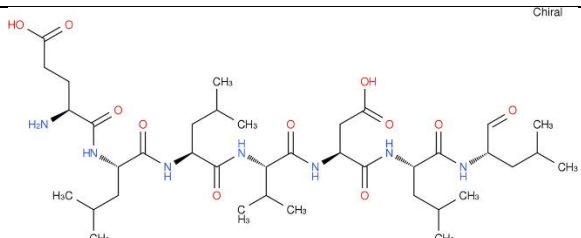
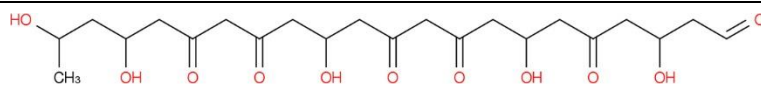
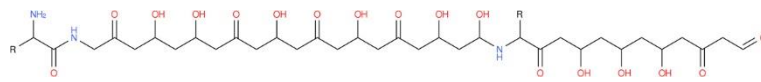
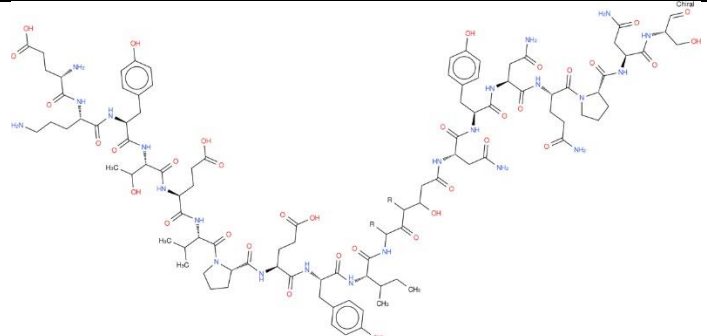
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>L-1</b>				
Cluster 1	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Transatpkps	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpkps-Nrps	102689	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpkps-Nrps	137823	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

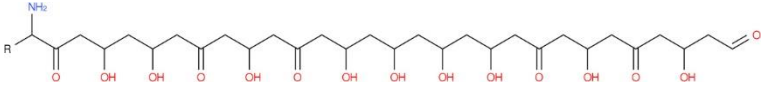
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>L-1</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100449	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

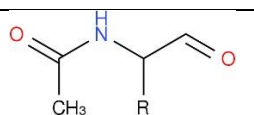
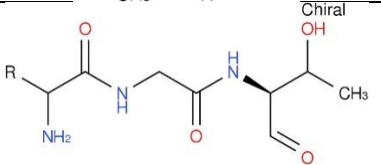
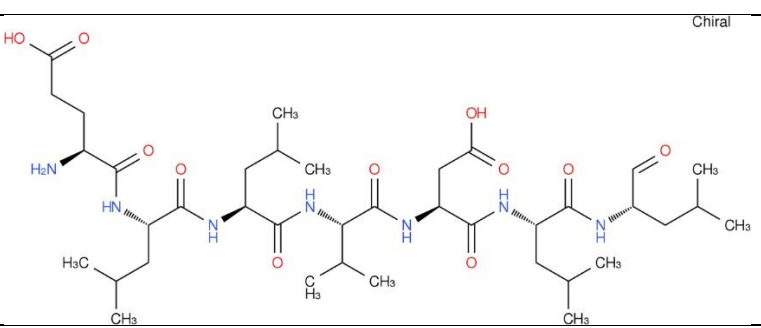
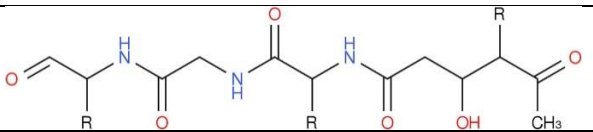
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCGB_574</b>				
Cluster 1	T3pks	41100	-	-
Cluster 2	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Bacteriocin-Nrps	66795	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Nrps	68420	-	-
Cluster 5	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 7	Phosphonate	40884	-	-
Cluster 8	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 9	Terpene	20740	-	-
Cluster 10	Transatpks	89899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 11	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

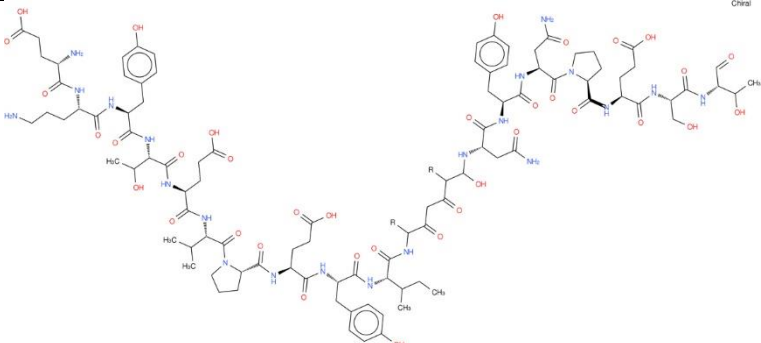
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SCGB_574</b>				
Cluster 12	Transatpks-Nrps	137830	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Terpene	21883	-	-

Table S1. Continued.

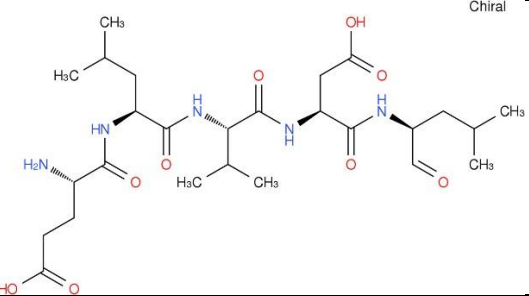
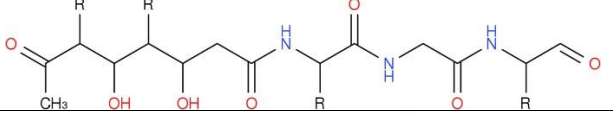
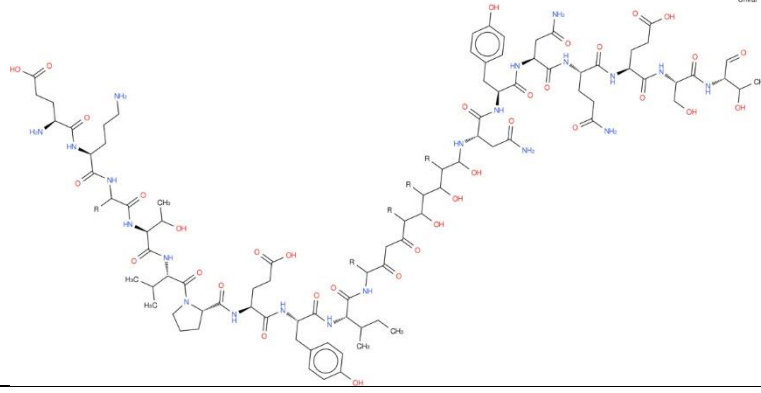
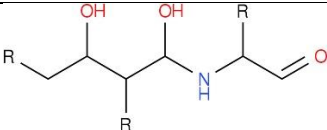
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OSY-S3</b>				
Cluster 1	Nrps	61941	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	80746	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 4	Transatpks-Nrps	102364	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Nrps	131633	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Terpene	20746	-	-
Cluster 7	T3pks	41100	-	-
Cluster 8	Transatpks	93770	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

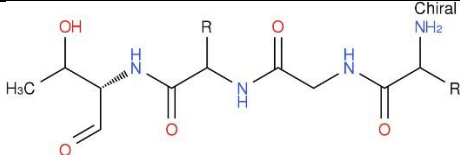
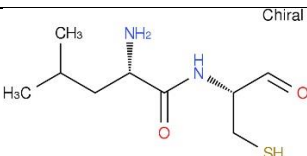
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>OSY-S3</b>				
Cluster 9	Nrps	47309	-	-
Cluster 10	Bacteriocin-Nrps	66779	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chemical structure of Bacillibactin biosynthetic gene cluster product. The structure shows a complex molecule with multiple amide bonds, a hydroxyl group (OH), a methyl group (H<sub>3</sub>C), and a chiral center (Chiral NH<sub>2</sub>). The molecule is a cyclic peptide with a complex side chain.</p>
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 12	Nrps	34459	Bacitracin biosynthetic gene cluster (33% of genes show similarity)	 <p>Chemical structure of Bacitracin biosynthetic gene cluster product. The structure shows a complex molecule with multiple amide bonds, a hydroxyl group (OH), a methyl group (H<sub>3</sub>C), and a chiral center (Chiral NH<sub>2</sub>). The molecule is a cyclic peptide with a complex side chain.</p>

Table S1. Continued.

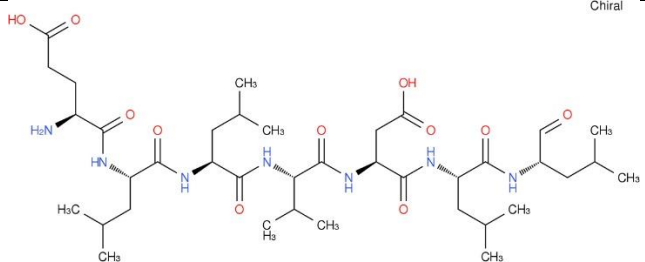
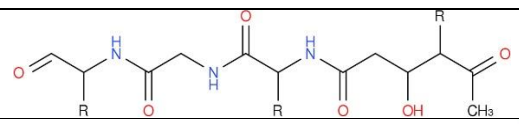
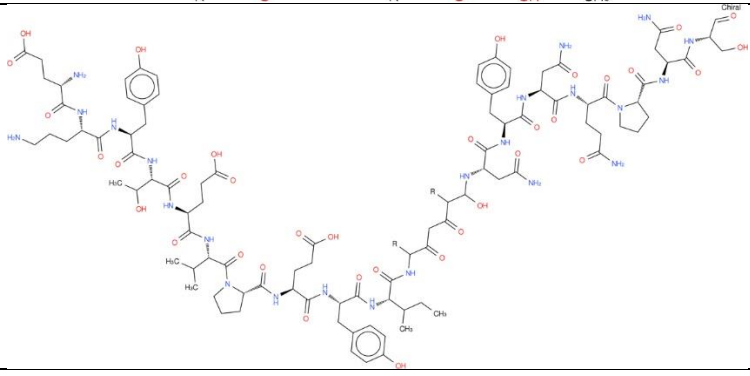
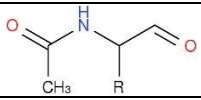
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TJ02</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	 <p>Chiral</p>
Cluster 2	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20740	-	-
Cluster 4	Transatpks	85905	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 5	Transatpks-Nrps	102695	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	137823	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Terpene	21883	-	-
Cluster 8	T3pks	41100	-	-
Cluster 9	Transatpks	100449	Difficidin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

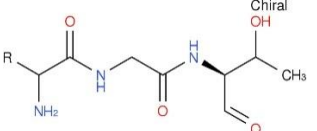
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>TJ02</b>				
Cluster 10	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

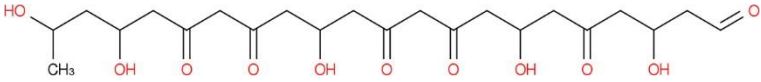
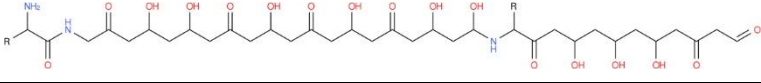
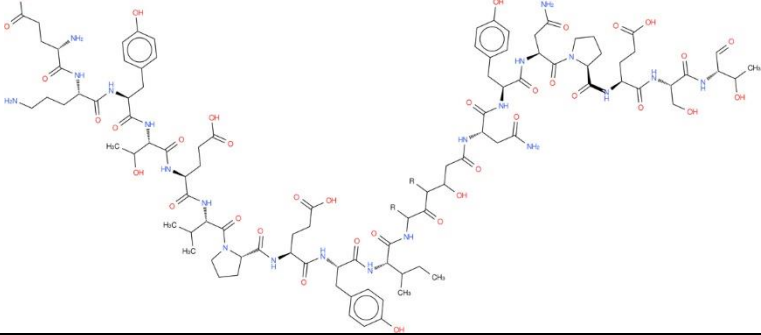
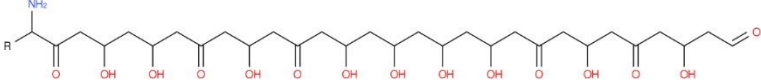
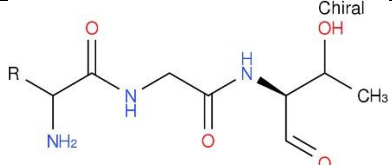
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>C2</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	137833	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Terpene	21883	-	-
Cluster 7	T3pks	41100	-	-
Cluster 8	Transatpks	100477	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Nrps	40483	-	-
Cluster 11	Bacteriocin-Nrps	66795	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

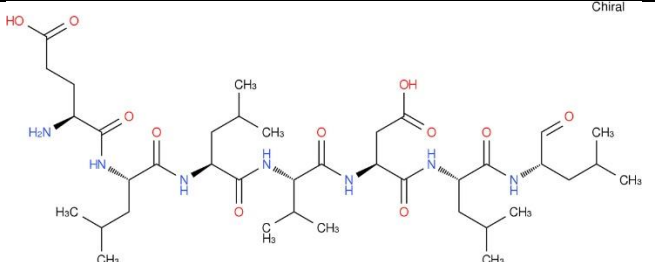
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>C2</b>				
Cluster 12	Nrps	23634	-	-
Cluster 13	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 14	Phosphonate	40884	-	-
Cluster 15	Nrps	1853	-	-
Cluster 16	Nrps	1477	-	-

Table S1. Continued.

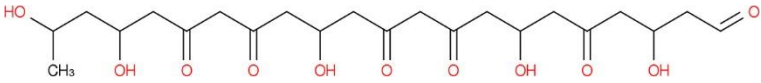
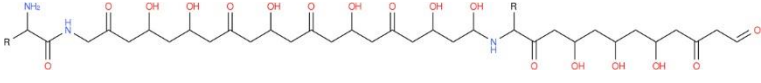
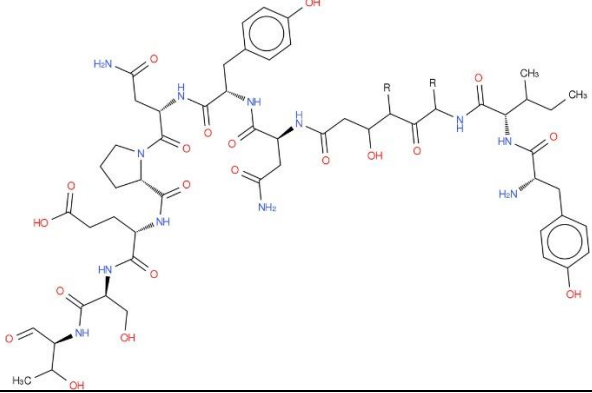
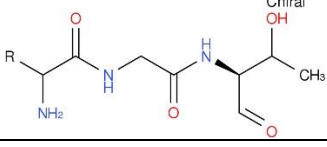
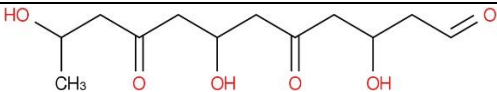
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>3A-25B</b>				
Cluster 1	Transatpks	85910	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102677	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	87670	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 4	Nrps	24279	-	-
Cluster 5	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Bacteriocin-Nrps	73515	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps	22502	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	45657	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

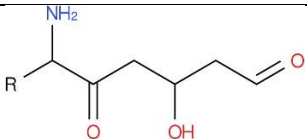
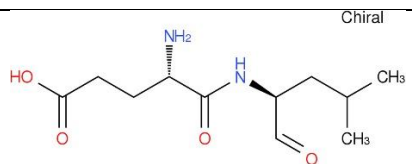
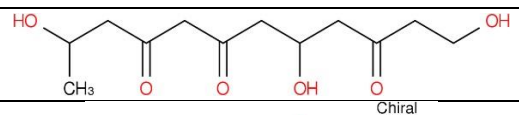
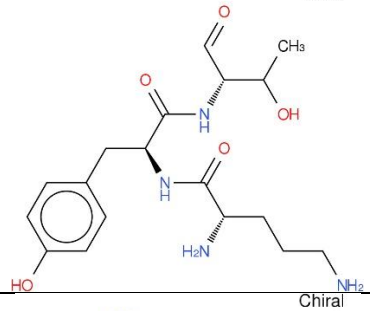
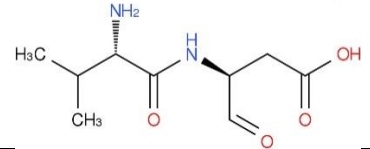
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>3A-25B</b>				
Cluster 11	Terpene	20740	-	-
Cluster 12	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 13	Transatpks	29069	Difficidin biosynthetic gene cluster (40% of genes show similarity)	
Cluster 14	Phosphonate	40884	-	-
Cluster 15	Nrps	27800	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 16	Nrps	25589	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 17	Transatpks	23620	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 18	Nrps	13266	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	9516	Surfactin biosynthetic gene cluster (8% of genes show similarity)	

Table S1. Continued.

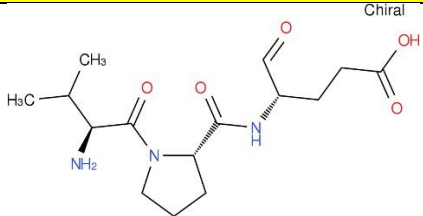
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>3A-25B</b>				
Cluster 20	Nrps	9270	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 21	Nrps	7952	-	-
Cluster 22	Nrps	6394	-	-

Table S1. Continued.

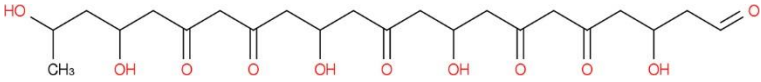
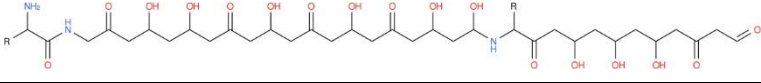
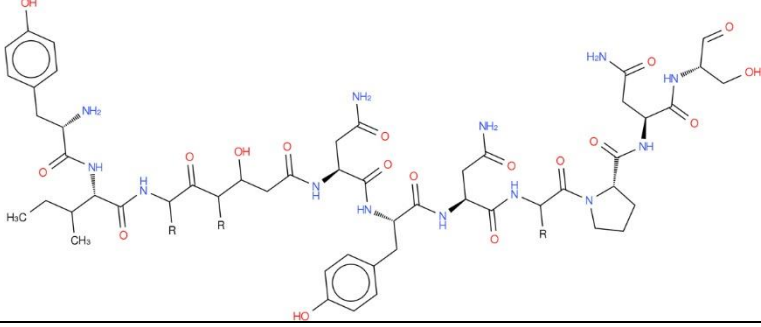
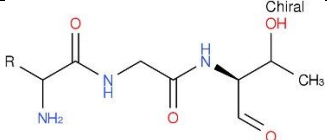
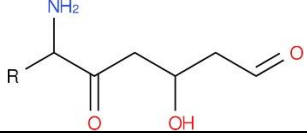
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7551-2</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102704	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	87556	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 6	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks	28182	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 9	Nrps	21920	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-

Table S1. Continued.

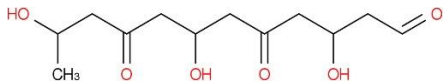
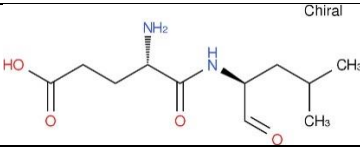
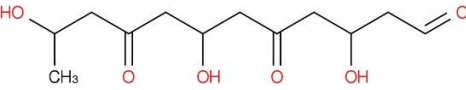
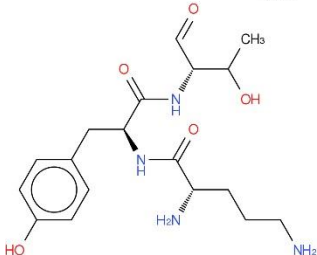
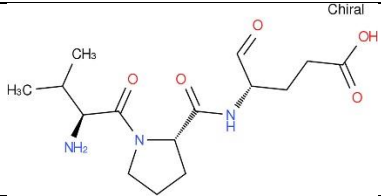
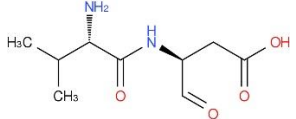
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7551-2</b>				
Cluster 10	Terpene	21883	-	-
Cluster 11	T3pks	41100	-	-
Cluster 12	Transatpks	45970	Difficidin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 13	Nrps	25182	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 14	Nrps	27661	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 15	Transatpks	22804	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 16	Nrps	13190	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 17	Nrps	1676	-	-
Cluster 18	Nrps	9040	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 19	Nrps	8970	Surfactin biosynthetic gene cluster (8% of genes show similarity)	



Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7551-2</b>				
Cluster 20	Other	1795	-	-

Table S1. Continued.

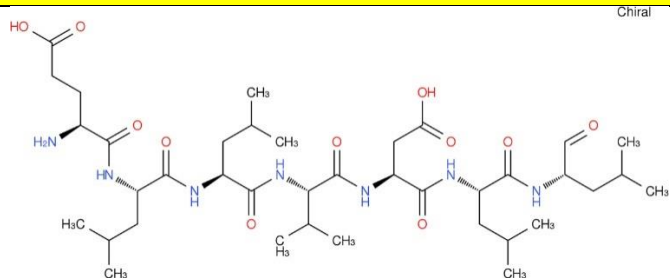
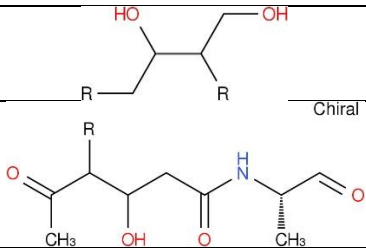
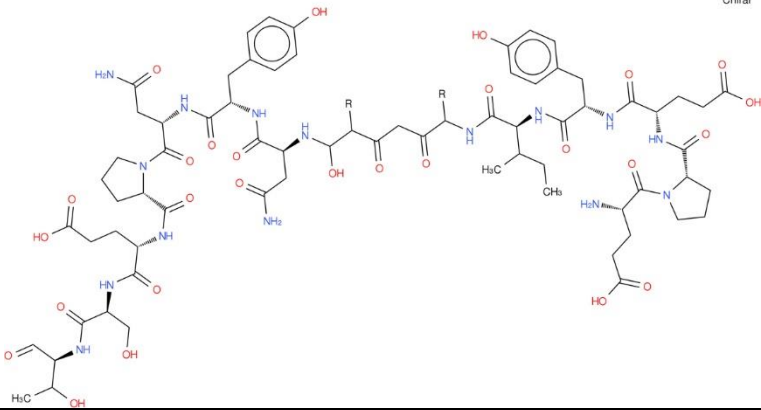
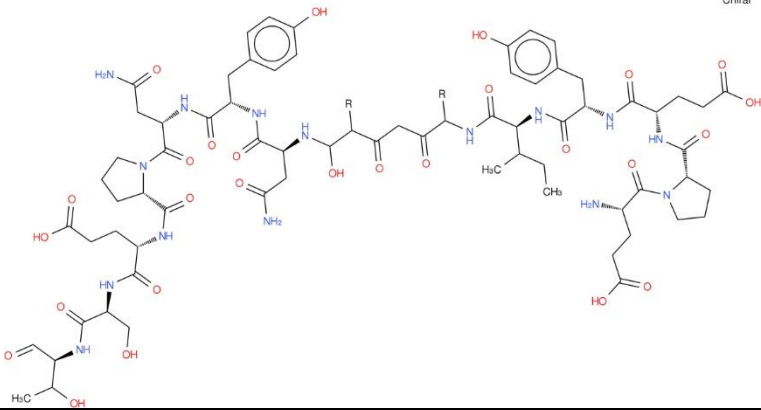
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM101413</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Ladderane	41121	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	84066	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Transatpks-Nrps	82334	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	135064	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 8	Terpene	21883	-	-

Table S1. Continued.

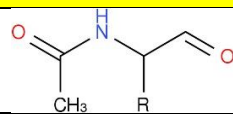
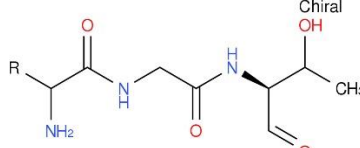
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM101413</b>				
Cluster 9	Transatpks	93068	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 10	Bacteriocin-Nrps	66784	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

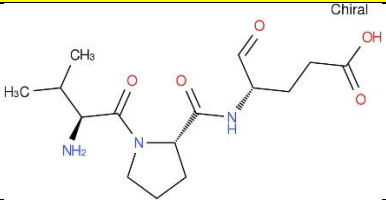
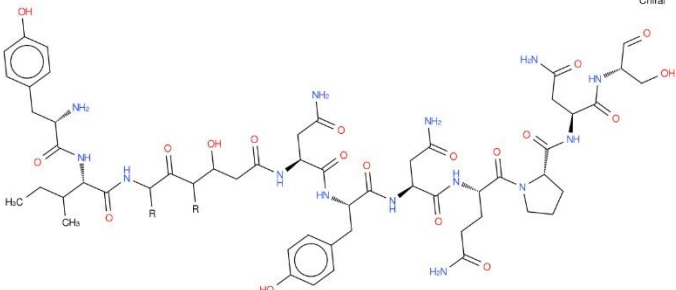
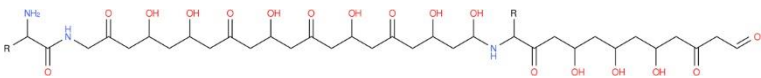
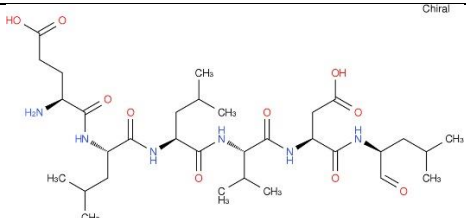
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GF610</b>				
Cluster 1	Nrps	10013	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 2	Bacteriocin-Transatpks-Nrps	101372	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 3	Transatpks-Nrps	92444	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Terpene	20740	-	-
Cluster 5	Otherks	34430	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 6	Lantipeptide	27137	Haloduracin_alpha / haloduracin beta biosynthetic gene cluster (40% of genes show similarity)	-
Cluster 7	Nrps	26295	Surfactin biosynthetic gene cluster (47% of genes show similarity)	-
Cluster 8	Nrps	39238	Surfactin biosynthetic gene cluster (52% of genes show similarity)	

Table S1. Continued.

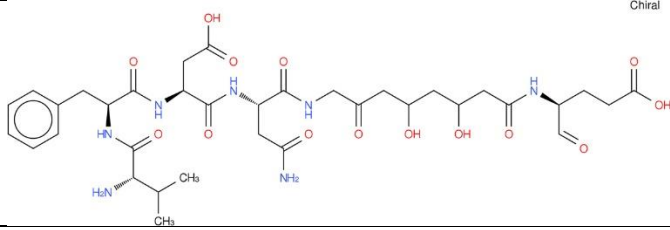
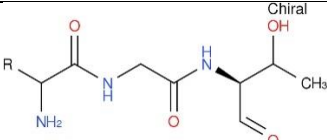
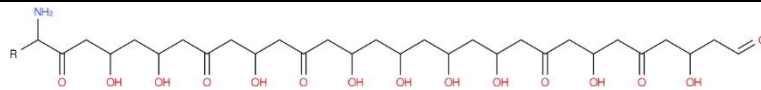
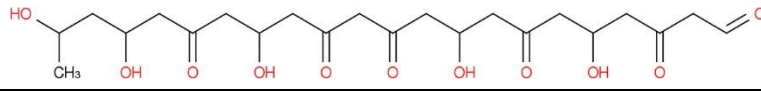
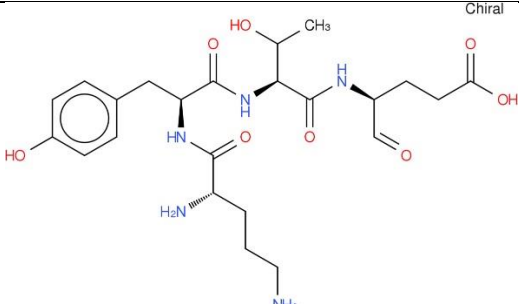
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GF610</b>				
Cluster 9	Transatpks-Nrps	77736	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	 <p>Chemical structure of Rhizoctin biosynthetic gene cluster product. The molecule is a complex polyketide chain with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. It features a chiral center labeled 'Chiral'.</p>
Cluster 10	Other	29708	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 11	Bacteriocin-Nrps	47170	Bacillibactin biosynthetic gene cluster (84% of genes show similarity)	 <p>Chemical structure of Bacillibactin biosynthetic gene cluster product. The molecule is a complex polyketide chain with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. It features a chiral center labeled 'Chiral'.</p>
Cluster 12	Transatpks	86482	Difficidin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chemical structure of Difficidin biosynthetic gene cluster product. The molecule is a complex polyketide chain with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. It features a chiral center labeled 'Chiral'.</p>
Cluster 13	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	 <p>Chemical structure of Macrolactin biosynthetic gene cluster product. The molecule is a complex polyketide chain with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. It features a chiral center labeled 'Chiral'.</p>
Cluster 14	T3pks	41100	-	-
Cluster 15	Terpene	21883	-	-
Cluster 16	Nrps	3179	-	-
Cluster 17	Nrps	14428	Fengycin biosynthetic gene cluster (26% of genes show similarity)	 <p>Chemical structure of Fengycin biosynthetic gene cluster product. The molecule is a complex polyketide chain with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. It features a chiral center labeled 'Chiral'.</p>

Table S1. Continued.

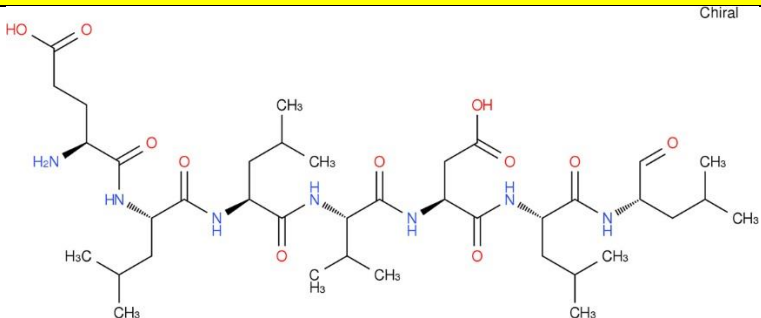
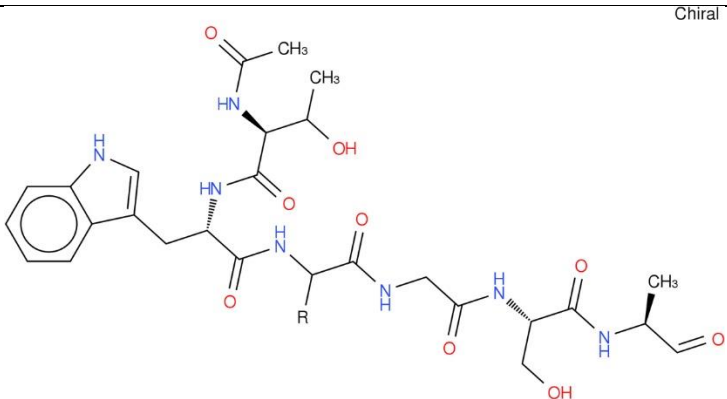
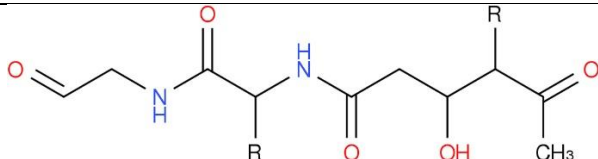
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100072</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Otherks	41220	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 3	Terpene	20515	-	-
Cluster 4	Transatpks-Nrps	113322	Bacillaene biosynthetic gene cluster (57% of genes show similarity)	
Cluster 5	Lantipeptide	28888	-	-
Cluster 6	Transatpks	79667	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	47671	Bacillaene biosynthetic gene cluster (78% of genes show similarity)	

Table S1. Continued.

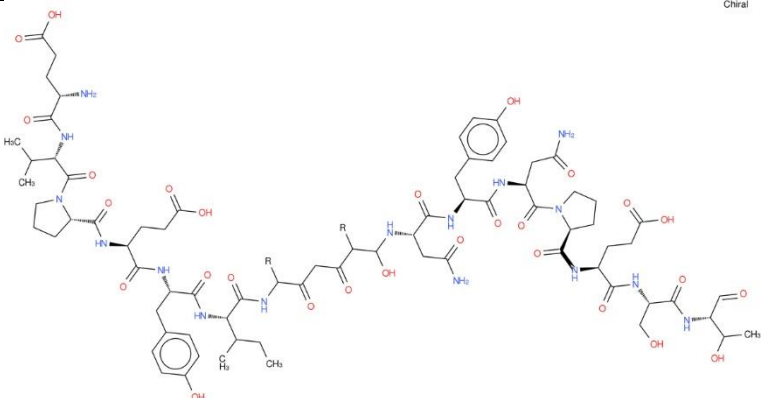
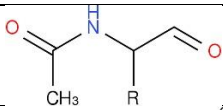
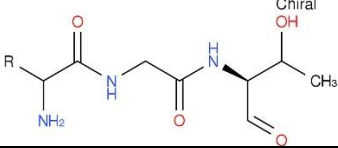
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>SRCM100072</b>				
Cluster 8	Transatpks-Nrps	122425	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 9	Terpene	21628	-	-
Cluster 10	Transatpks	99600	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 11	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
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Cluster 13	Bacteriocin	13078	-	-

Table S1. Continued.

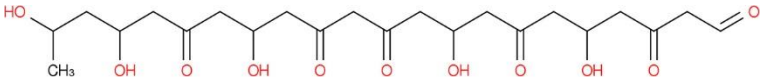
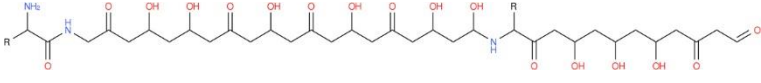
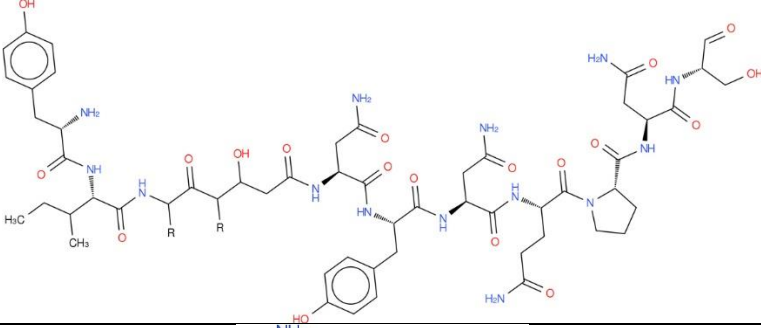
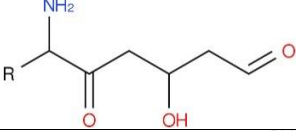
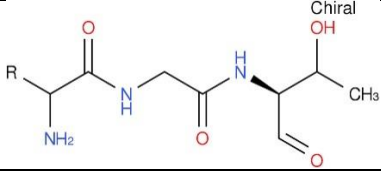
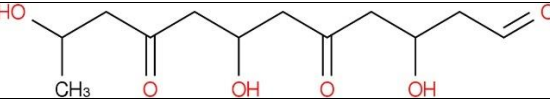
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7899</b>				
Cluster 1	Transatpks	85893	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Transatpks-Nrps	102689	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	86777	Fengycin biosynthetic gene cluster (73% of genes show similarity)	
Cluster 4	Transatpks	28420	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 5	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 6	Nrps	24273	-	-
Cluster 7	Other	41445	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	46038	Difficidin biosynthetic gene cluster (53% of genes show similarity)	



Table S1. Continued.

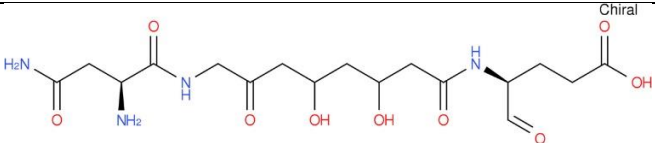
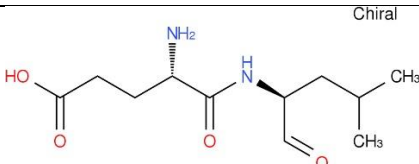
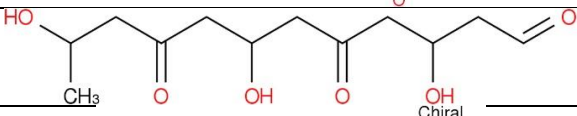
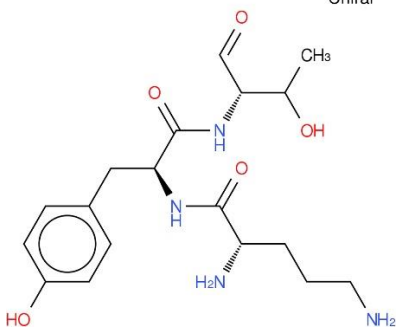
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7899</b>				
Cluster 11	Otherks	24865	-	-
Cluster 12	Terpene	20740	-	-
Cluster 13	Nrps	25231	Surfactin biosynthetic gene cluster (47% of genes show similarity)	-
Cluster 14	Transatpks-Nrps	46594	Rhizocticin biosynthetic gene cluster (6% of genes show similarity)	 <p>Chemical structure of Rhizocticin biosynthetic gene cluster product. It is a long-chain molecule with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. A chiral center is indicated.</p>
Cluster 15	Nrps	23168	-	-
Cluster 16	Other	22390	Rhizocticin biosynthetic gene cluster (16% of genes show similarity)	-
Cluster 17	Nrps	27661	Surfactin biosynthetic gene cluster (47% of genes show similarity)	 <p>Chemical structure of Surfactin biosynthetic gene cluster product. It is a long-chain molecule with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. A chiral center is indicated.</p>
Cluster 18	Transatpks	23349	Difficidin biosynthetic gene cluster (26% of genes show similarity)	 <p>Chemical structure of Difficidin biosynthetic gene cluster product. It is a long-chain molecule with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. A chiral center is indicated.</p>
Cluster 19	Nrps	12866	Fengycin biosynthetic gene cluster (20% of genes show similarity)	 <p>Chemical structure of Fengycin biosynthetic gene cluster product. It is a complex molecule with multiple amide bonds, hydroxyl groups, and a terminal carboxylic acid group. A chiral center is indicated.</p>
Cluster 20	Nrps	1637	Locillomycin biosynthetic gene cluster (21% of genes show similarity)	-

Table S1. Continued.

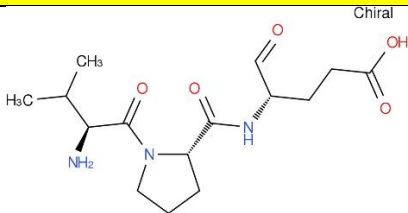
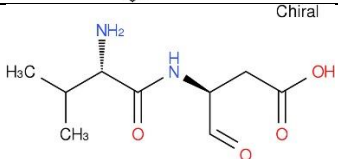
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7899</b>				
Cluster 21	Nrps	9028	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 22	Nrps	9019	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 23	Nrps	6648	-	-
Cluster 24	Nrps	6514	-	-
Cluster 25	Nrps	6414	-	-
Cluster 26	Other	1746	-	-

Table S1. Continued.

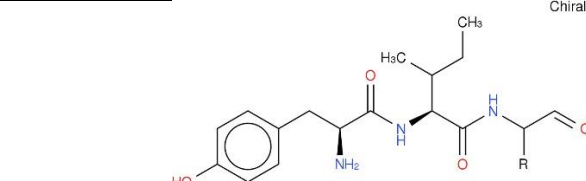
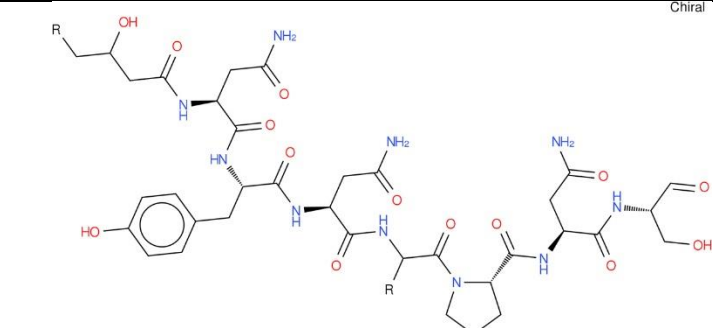
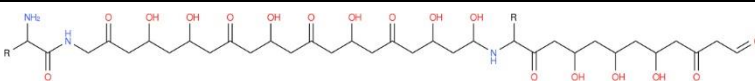
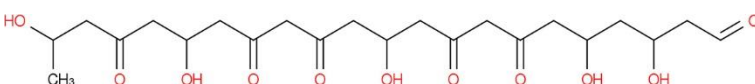
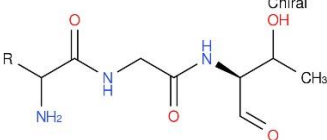
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7751-1</b>				
Cluster 1	Nrps	19449	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 2	Transatpks-Nrps	68258	Bacillomycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks	85887	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Terpene	20740	-	-
Cluster 6	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 7	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 8	Lantipeptide	26661	-	-
Cluster 9	Bacteriocin-Nrps	66416	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

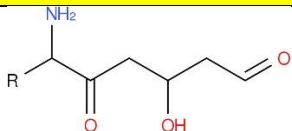
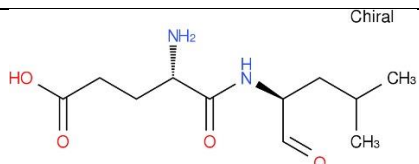
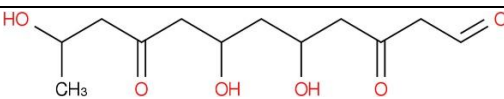
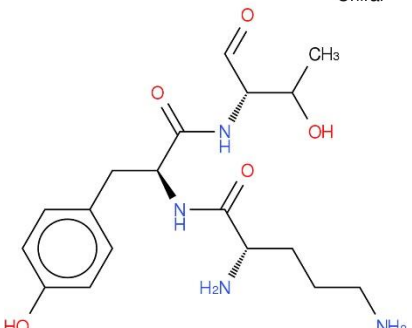
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7751-1</b>				
Cluster 10	Transatpks	28182	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 11	Transatpks	45748	Difficidin biosynthetic gene cluster (53% of genes show similarity)	-
Cluster 12	T3pks	41100	-	-
Cluster 13	Terpene	21883	-	-
Cluster 14	Nrps	25182	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 15	Nrps	27617	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 16	Ladderane	41121	-	-
Cluster 17	Transatpks	22842	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 18	Nrps	12684	Fengycin biosynthetic gene cluster (33% of genes show similarity)	

Table S1. Continued.

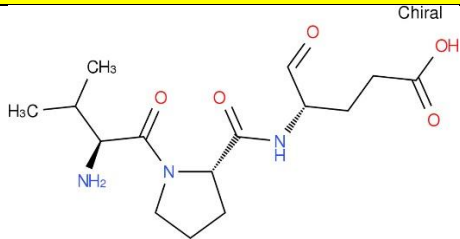
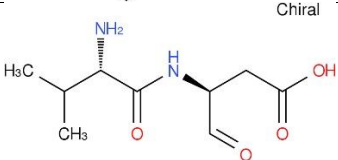
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7751-1</b>				
Cluster 19	Nrps	9194	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 20	Nrps	8953	Surfactin biosynthetic gene cluster (8% of genes show similarity)	
Cluster 21	Other	1838	Orfamide biosynthetic gene cluster (17% of genes show similarity)	

Table S1. Continued.

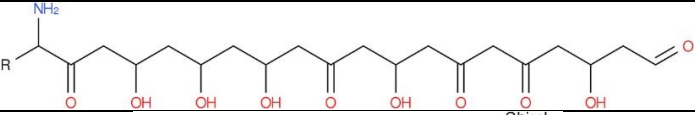
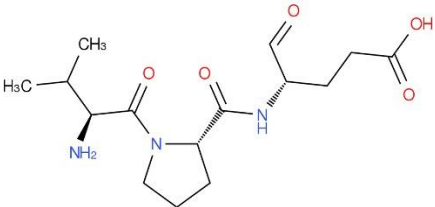
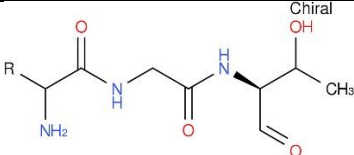
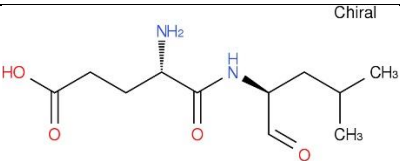
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NWUMFk_BS10.5</b>				
Cluster 1	Nrps	22316	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 2	Terpene	21883	-	-
Cluster 3	T3pks	41100	-	-
Cluster 4	Transatpks	75782	Difficidin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 5	Nrps	9106	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 6	Bacteriocin-Nrps	66791	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps	25599	Surfactin biosynthetic gene cluster (47% of genes show similarity)	-
Cluster 8	Nrps	1012	-	-
Cluster 9	Nrps	27683	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 10	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 11	Lantipeptide	23982	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NWUMFk_BS10.5</b>				
Cluster 12	Nrps	9409	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<p>Chiral</p>
Cluster 13	Transatpks	24696	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 14	Nrps	13665	Fengycin biosynthetic gene cluster (20% of genes show similarity)	<p>Chiral</p>
Cluster 15	Transatpks-Nrps	87575	Fengycin biosynthetic gene cluster (80% of genes show similarity)	<p>Chiral</p>

Table S1. Continued.

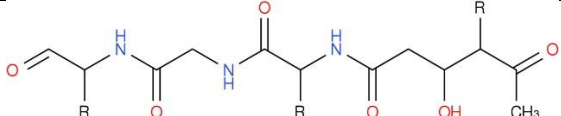
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NWUMFk_BS10.5</b>				
Cluster 16	Transatpks-Nrps	102395	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 17	Transatpks	85881	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 18	Terpene	20740	-	-
Cluster 19	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-



Table S1. Continued.

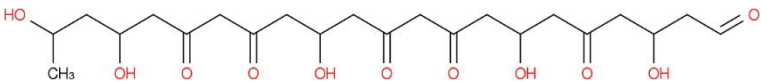
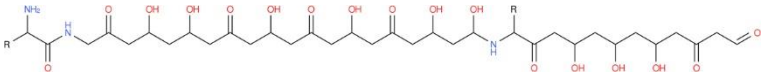
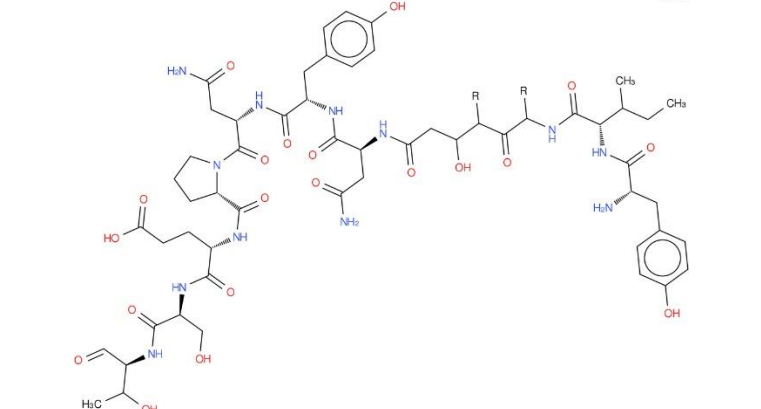
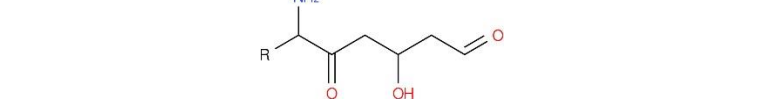
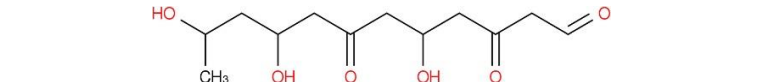
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7537-G2</b>				
Cluster 1	Lantipeptide	26668	-	-
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	85547	Fengycin biosynthetic gene cluster (73% of genes show similarity)	
Cluster 6	Transatpks	28177	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 7	Nrps	13897	Plipastatin biosynthetic gene cluster (30% of genes show similarity)	-
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	45610	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

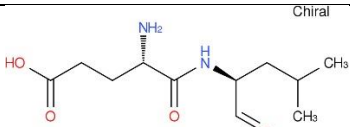
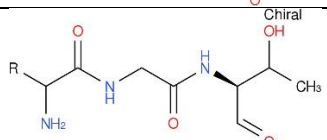
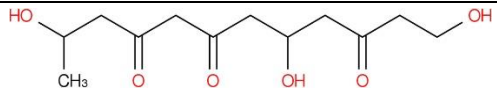
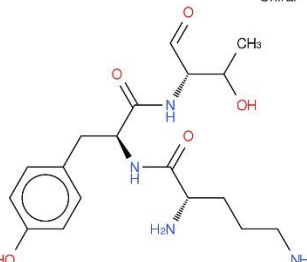
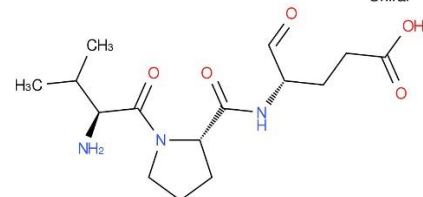
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7537-G2</b>				
Cluster 11	Terpene	20740	-	-
Cluster 12	Otherks	31045	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 13	Nrps	25379	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 14	Nrps	27928	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 15	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 16	Lantipeptide	18348	-	-
Cluster 17	Transatpks	22675	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 18	Nrps	12961	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	9099	Fengycin biosynthetic gene cluster (13% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7537-G2</b>				
Cluster 20	Nrps	1565	-	-
Cluster 21	Nrps	9434	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<div> <div> <chem>CC(C)[C@H](N)C(=O)N[C@@H](C=O)CC(=O)O</chem> </div> <div>Chiral</div> </div>
Cluster 22	Other	1332	Bacitracin biosynthetic gene cluster (33% of genes show similarity)	-

Table S1. Continued.

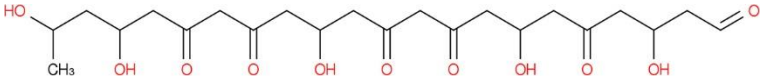
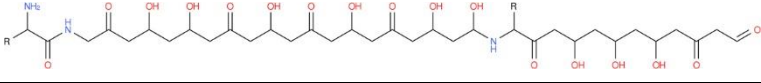
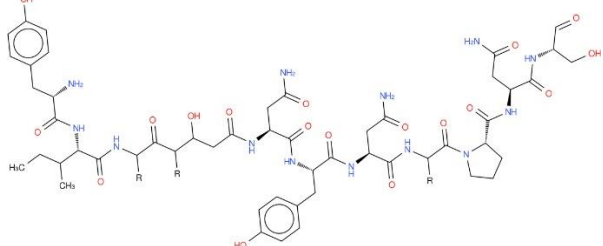
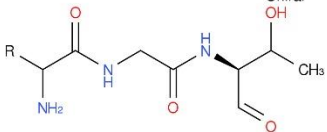
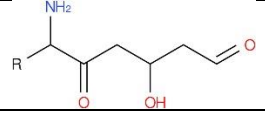
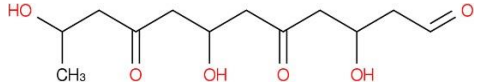
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7586-G</b>				
Cluster 1	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks	85875	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks-Nrps	102692	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Transatpks-Nrps	87677	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 6	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Lantipeptide	26661	-	-
Cluster 8	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Transatpks	28111	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 10	Terpene	21883	-	-
Cluster 11	T3pks	41100	-	-
Cluster 12	Transatpks	45913	Difficidin biosynthetic gene cluster (53% of genes show similarity)	

Table S1. Continued.

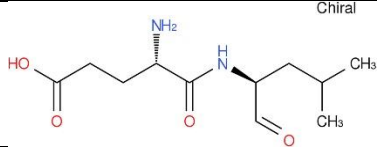
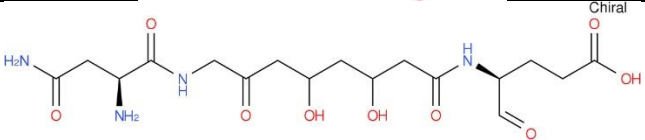
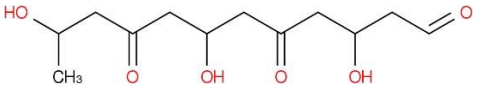
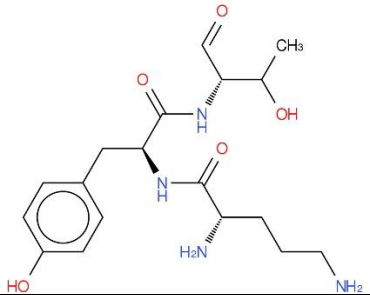
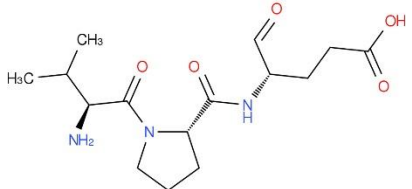
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7586-G</b>				
Cluster 13	Nrps	25224	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 14	Nrps	28004	Surfactin biosynthetic gene cluster (47% of genes show similarity)	
Cluster 15	Transatpks-Nrps	46577	Rhizocticin biosynthetic gene cluster (6% of genes show similarity)	
Cluster 16	Nrps	22450	Rhizocticin biosynthetic gene cluster (9% of genes show similarity)	-
Cluster 17	Transatpks	22945	Difficidin biosynthetic gene cluster (26% of genes show similarity)	
Cluster 18	Nrps	12998	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 19	Nrps	9190	Fengycin biosynthetic gene cluster (13% of genes show similarity)	
Cluster 20	Nrps	1501	-	-

Table S1. Continued.

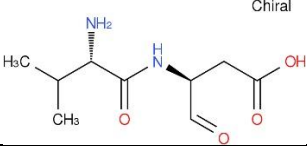
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>7586-G</b>				
Cluster 21	Nrps	9355	Surfactin biosynthetic gene cluster (8% of genes show similarity)	<div>  </div>
Cluster 22	Nrps	6564	-	-
Cluster 23	Other	1410	-	-

Table S1. Continued.

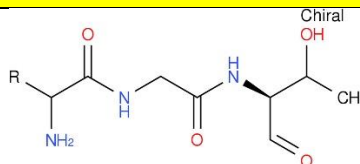
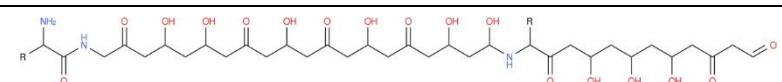
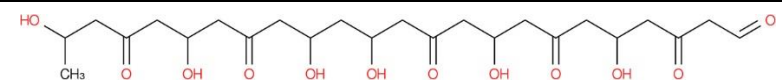
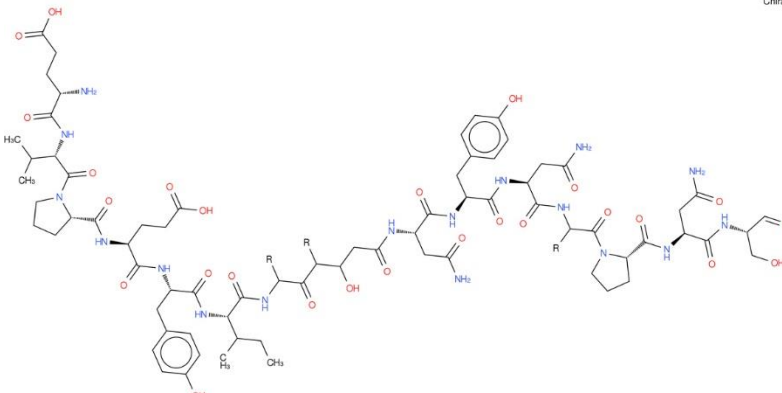
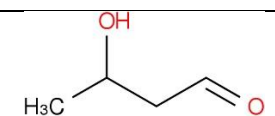
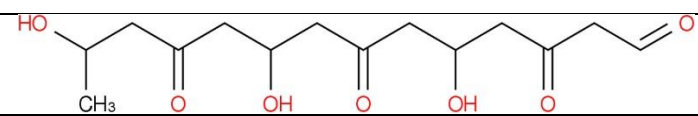
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FTC01</b>				
Cluster 1	Bacteriocin-Nrps	47085	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 2	Terpene	20740	-	-
Cluster 3	Transatpks-Nrps	91964	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Terpene	21883	-	-
Cluster 5	Transatpks	70732	Difficidin biosynthetic gene cluster (66% of genes show similarity)	
Cluster 6	Transatpks-Nrps	102759	Fengycin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 7	Transatpks	27422	Macrolactin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 8	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Transatpks	45300	Macrolactin biosynthetic gene cluster (80% of genes show similarity)	

Table S1. Continued.

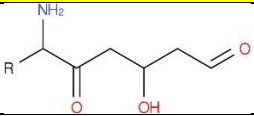
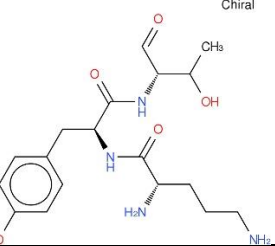
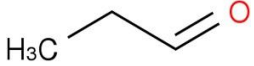
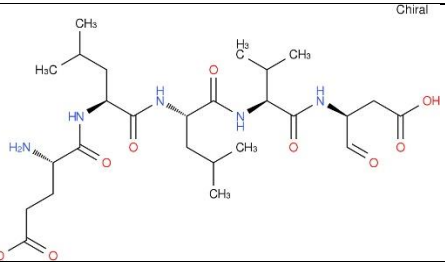
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>FTC01</b>				
Cluster 10	Transatpks	17107	Difficidin biosynthetic gene cluster (46% of genes show similarity)	
Cluster 11	T3pks	23449	-	-
Cluster 12	Nrps	13336	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 13	Transatpks	11118	Macrolactin biosynthetic gene cluster (40% of genes show similarity)	
Cluster 14	Transatpks	7061	-	-
Cluster 15	Nrps	3499	Bacitracin biosynthetic gene cluster (22% of genes show similarity)	-
Cluster 16	Nrps	25483	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 17	Transatpks	2303	-	-
Cluster 18	Other	2154	-	-
Cluster 19	Nrps	38415	Surfactin biosynthetic gene cluster (52% of genes show similarity)	
Cluster 20	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-



Table S1. Continued.

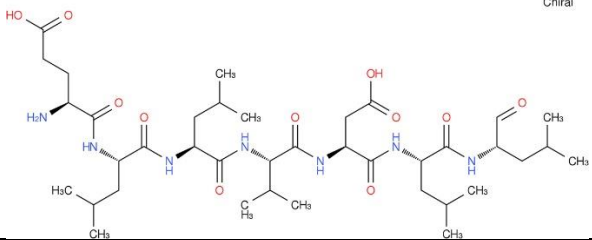
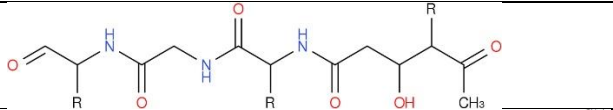
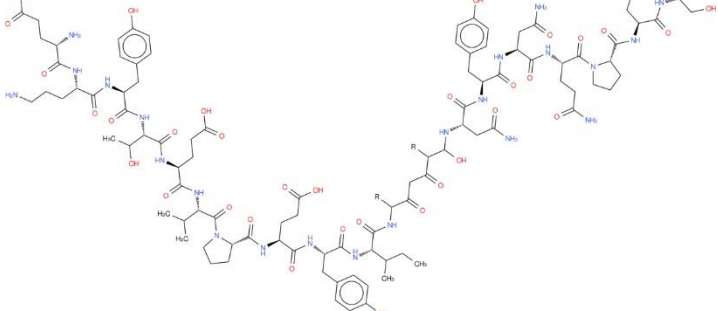
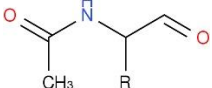
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NKG-1</b>				
Cluster 1	Thiopeptide	26795	-	-
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102695	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137811	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	98209	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

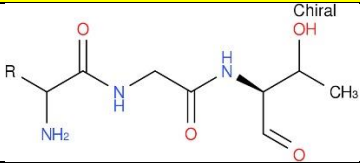
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>NKG-1</b>				
Cluster 11	Bacteriocin-Nrps	66790	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

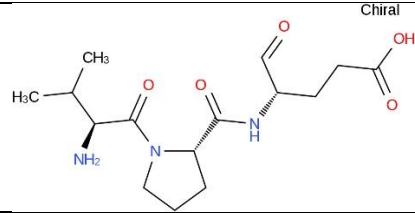
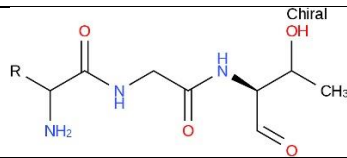
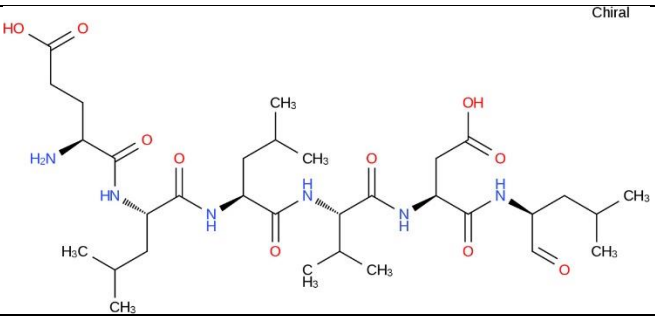
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>MRC_16791</b>				
Cluster 1	Nrps	1913	-	-
Cluster 2	Nrps	8491	-	-
Cluster 3	Nrps	2808	-	-
Cluster 4	Nrps	11305	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 5	Nrps	9215	-	-
Cluster 6	Nrps	20652	Surfactin biosynthetic gene cluster (39% of genes show similarity)	-
Cluster 7	Nrps	17069	Bacillibactin biosynthetic gene cluster (53% of genes show similarity)	
Cluster 8	Other	24605	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 9	Nrps	28306	Surfactin biosynthetic gene cluster (43% of genes show similarity)	
Cluster 10	Terpene	20740	-	-
Cluster 11	Nrps	16801	Plipastatin biosynthetic gene cluster (46% of genes show similarity)	-

Table S1. Continued.

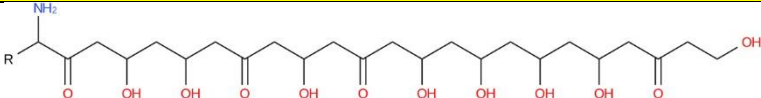
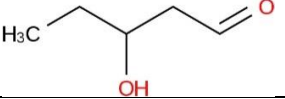
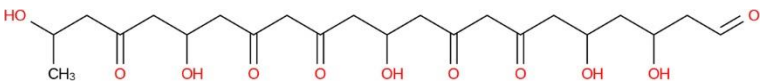
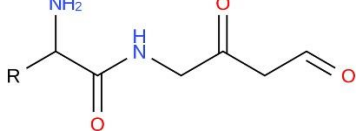
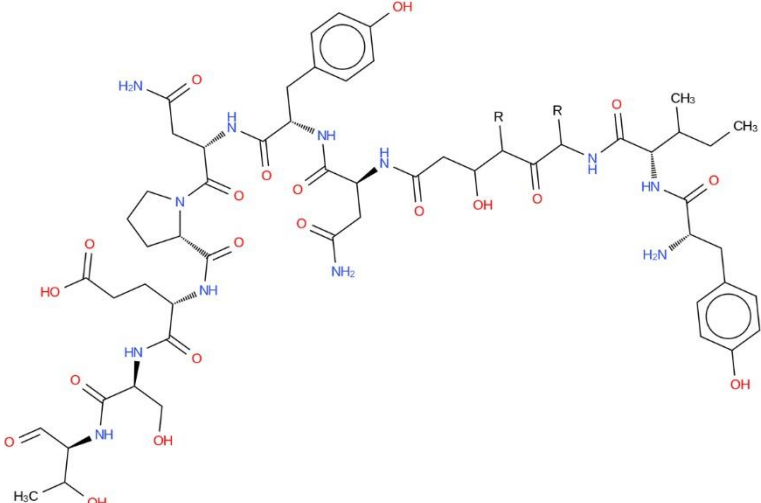
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>MRC_16791</b>				
Cluster 12	Transatpks	66239	Difficidin biosynthetic gene cluster (66% of genes show similarity)	
Cluster 13	Bacteriocin	6972	Amylocyclacin biosynthetic gene cluster (50% of genes show similarity)	-
Cluster 14	Terpene	21559	-	-
Cluster 15	Transatpks	35488	Difficidin biosynthetic gene cluster (40% of genes show similarity)	
Cluster 16	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 17	Nrps	26543	-	-
Cluster 18	Transatpks-Nrps	47671	Bacillaene biosynthetic gene cluster (78% of genes show similarity)	
Cluster 19	Transatpks-Nrps	88577	Fengycin biosynthetic gene cluster (86% of genes show similarity)	

Table S1. Continued.

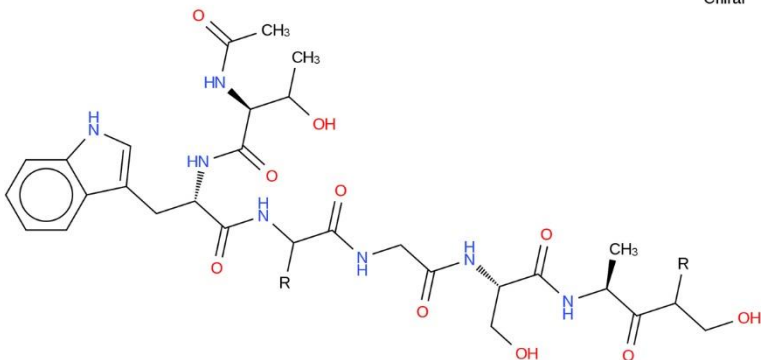
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>MRC_16791</b>				
Cluster 20	Transatpks-Nrps	113326	Kalimantacin / batumin biosynthetic gene cluster (17% of genes show similarity)	<div>  </div>
Cluster 21	Lantipeptide	28889	-	-
Cluster 22	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-

Table S1. Continued.

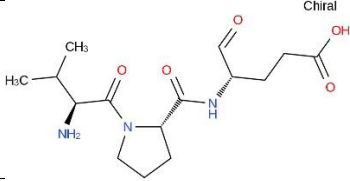
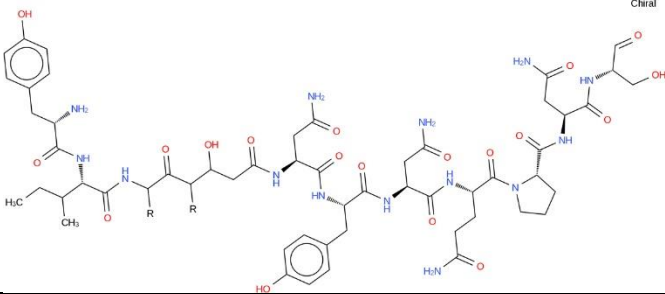
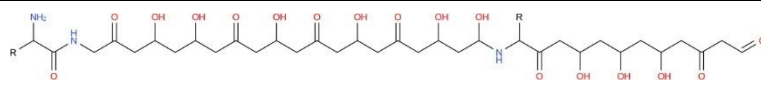
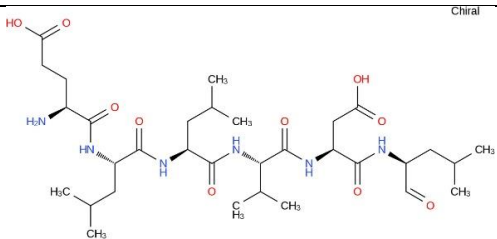
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GF610</b>				
Cluster 1	Nrps	10013	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 2	Bacteriocin-Transatpk-Nrps	101372	Fengycin biosynthetic gene cluster (80% of genes show similarity)	
Cluster 3	Transatpk-Nrps	92444	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Terpene	20740	-	-
Cluster 5	Otherks	34430	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 6	Lantipeptide	27137	Haloduracin_alpha / haloduracin beta biosynthetic gene cluster (40% of genes show similarity)	-
Cluster 7	Nrps	26295	Surfactin biosynthetic gene cluster (47% of genes show similarity)	-
Cluster 8	Nrps	39238	Surfactin biosynthetic gene cluster (52% of genes show similarity)	

Table S1. Continued.

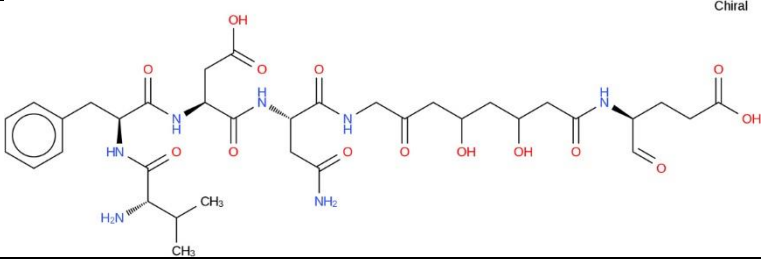
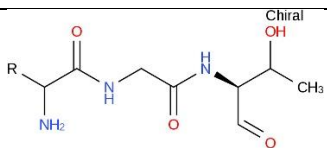
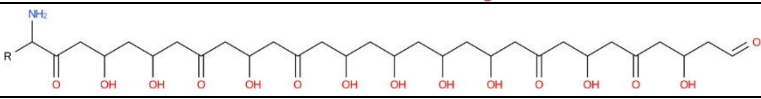
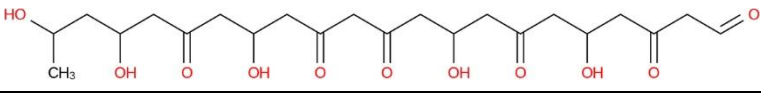
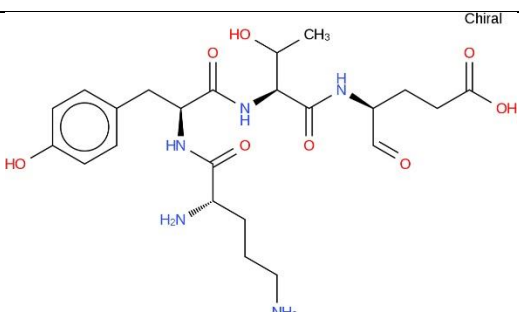
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GF610</b>				
Cluster 9	Transatpks-Nrps	77736	Rhizoctin biosynthetic gene cluster (22% of genes show similarity)	
Cluster 10	Other	29708	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 11	Bacteriocin-Nrps	47170	Bacillibactin biosynthetic gene cluster (84% of genes show similarity)	
Cluster 12	Transatpks	86482	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Transatpks	85899	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 14	T3pks	41373	-	-
Cluster 15	Terpene	21883	-	-
Cluster 16	Nrps	3179	-	-
Cluster 17	Nrps	14428	Fengycin biosynthetic gene cluster (26% of genes show similarity)	

Table S1. Continued.

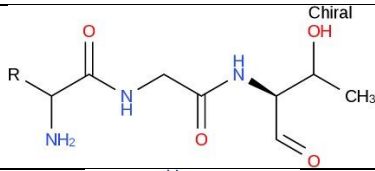
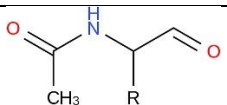
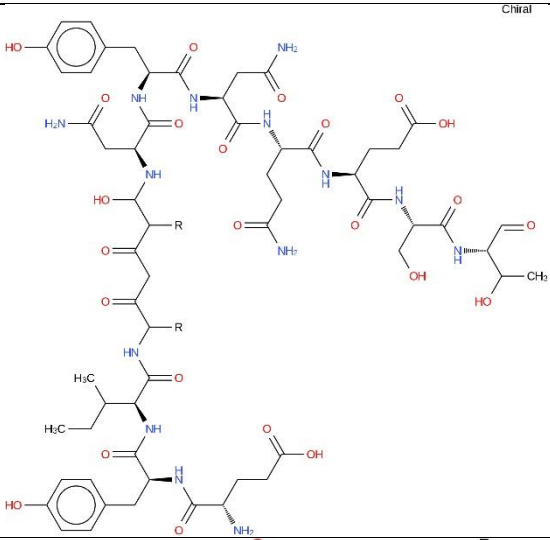

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JW</b>				
Cluster 1	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 2	Nrps	48208	-	-
Cluster 3	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks	99772	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	T3pks	41100	-	-
Cluster 6	Terpene	21883	-	-
Cluster 7	Transatpks-Nrps	111359	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 8	Transatpks-Nrps	102686	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

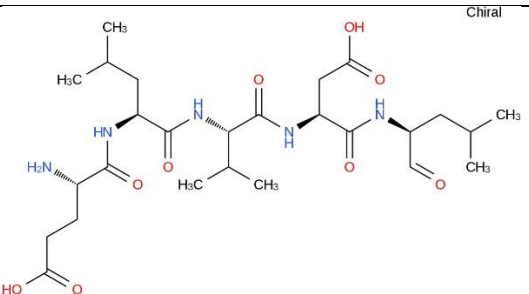
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>JW</b>				
Cluster 9	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Terpene	20740	-	-
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 12	Phosphonate	40884	-	-
Cluster 13	Nrps	64595	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 14	Nrps	8172	-	-
Cluster 15	Nrps	2173	-	-
Cluster 16	Nrps	6438	-	-

Table S1. Continued.

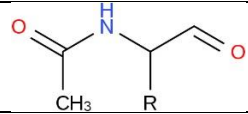
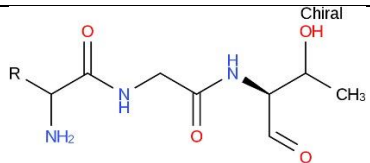
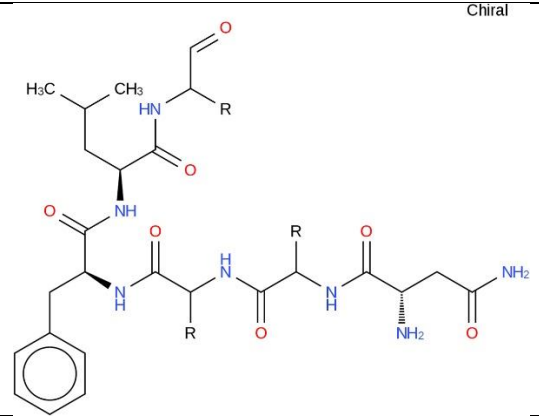
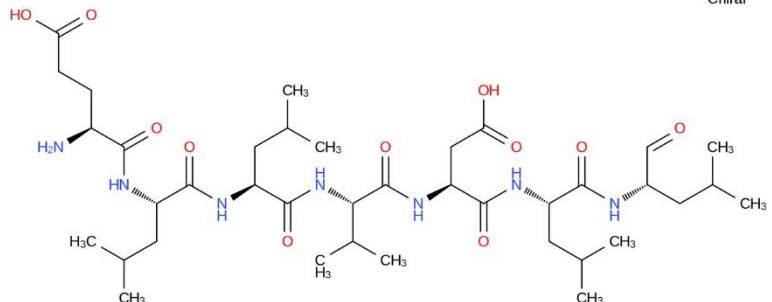
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GFP-2</b>				
Cluster 1	T3pks	41100	-	-
Cluster 2	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 3	Nrps	52064	-	-
Cluster 4	Bacteriocin-Nrps	66793	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	Lantipeptide	26661	-	-
Cluster 6	Nrps	84179	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Nrps	65407	Surfactin biosynthetic gene cluster (91% of genes show similarity)	

Table S1. Continued.

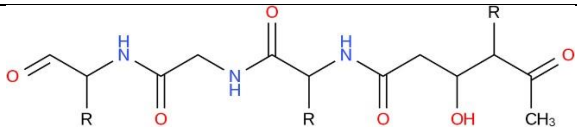
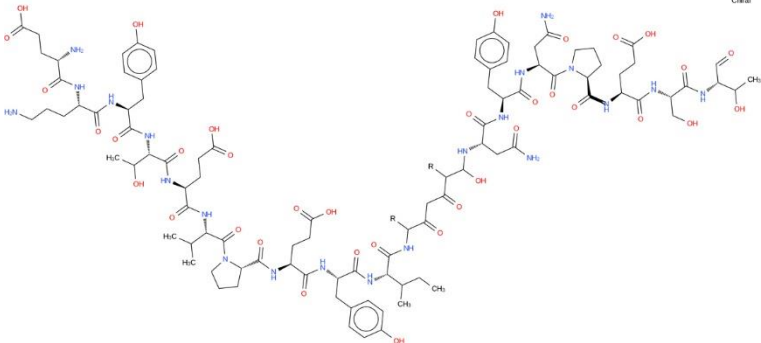
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>GFP-2</b>				
Cluster 8	Bacteriocin	10851	-	-
Cluster 9	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 10	Terpene	20740	-	-
Cluster 11	Transatpks	85875	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 12	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Transatpks-Nrps	137851	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 14	Terpene	21883	-	-

Table S1. Continued.

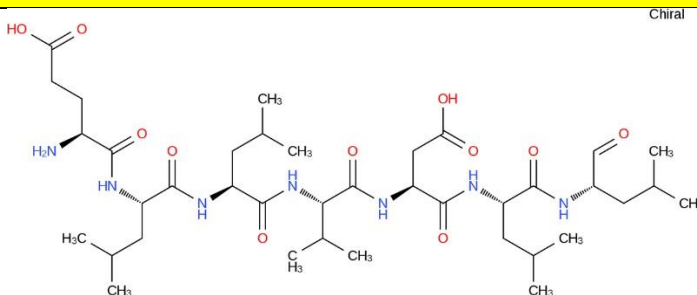
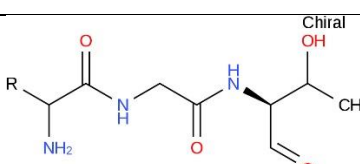
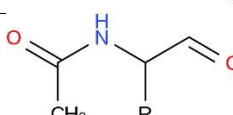
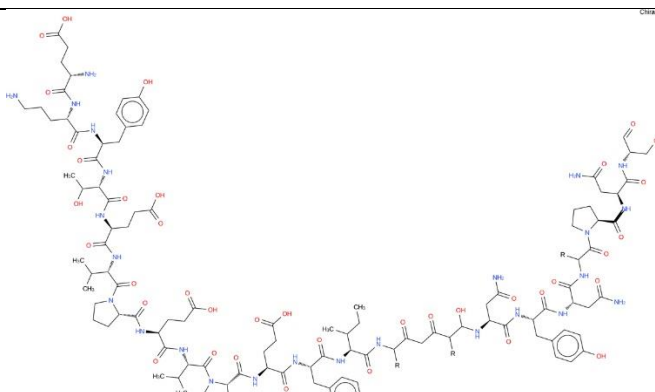
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>PG12</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (78% of genes show similarity)	
Cluster 2	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 3	Bacteriocin-Nrps	66792	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 4	Transatpks	100447	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 5	T3pks	41100	-	-
Cluster 6	Terpene	21883	-	-
Cluster 7	Transatpks-Nrps	148744	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

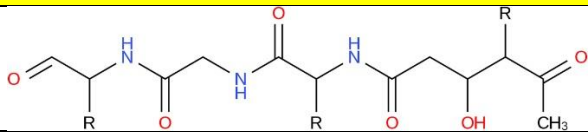
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>PG12</b>				
Cluster 8	Transatpks-Nrps	102971	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 9	Transatpks	85884	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 10	Terpene	20740	-	-
Cluster 11	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-

Table S1. Continued.

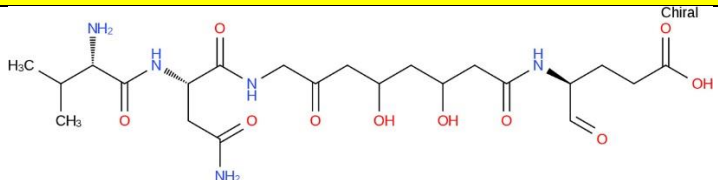
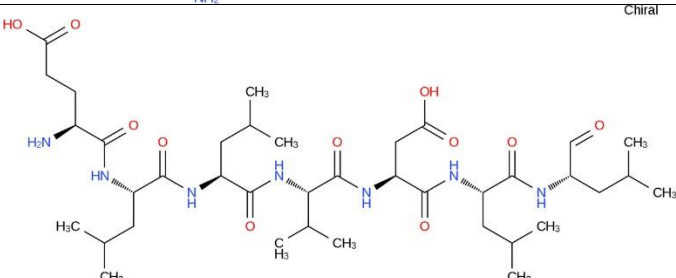
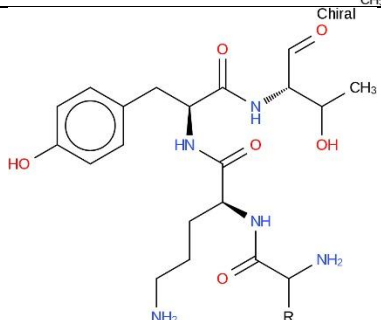
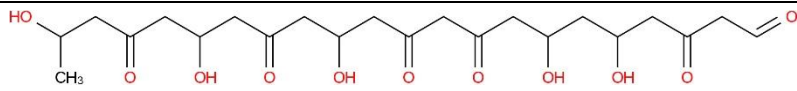
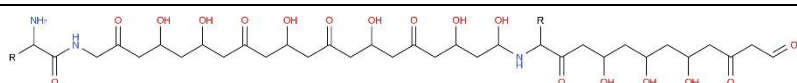
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>J01</b>				
Cluster 1	Transatpks-Nrps	70521	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	
Cluster 2	Nrps	65822	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 3	Nrps	74329	Fengycin biosynthetic gene cluster (20% of genes show similarity)	
Cluster 4	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 5	Terpene	20740	-	-
Cluster 6	Lantipeptide	28889	-	-
Cluster 7	Transatpks	85883	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	102690	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

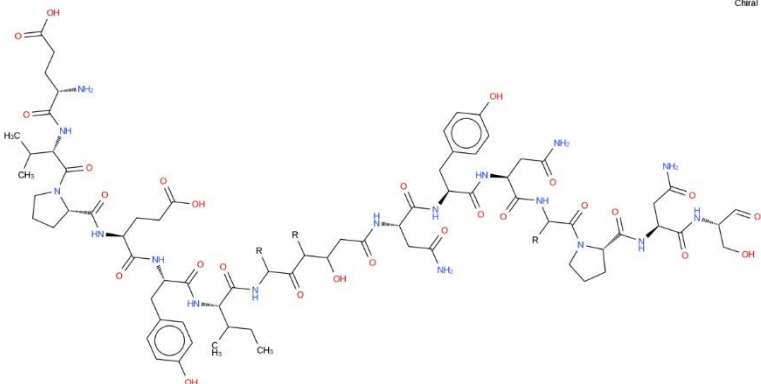
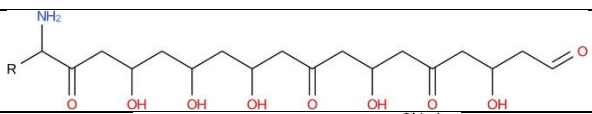
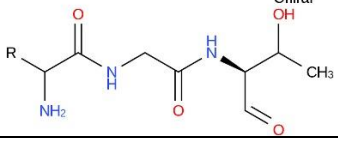
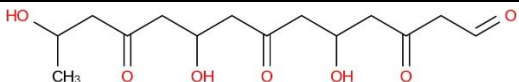
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>J01</b>				
Cluster 9	Transatpks-Nrps	122188	Fengycin biosynthetic gene cluster (93% of genes show similarity)	
Cluster 10	Terpene	21883	-	-
Cluster 11	T3pks	41100	-	-
Cluster 12	Transatpks	75766	Difficidin biosynthetic gene cluster (86% of genes show similarity)	
Cluster 13	Bacteriocin-Nrps	66943	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 14	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 15	Transatpks	45185	Difficidin biosynthetic gene cluster (26% of genes show similarity)	

Table S1. Continued.

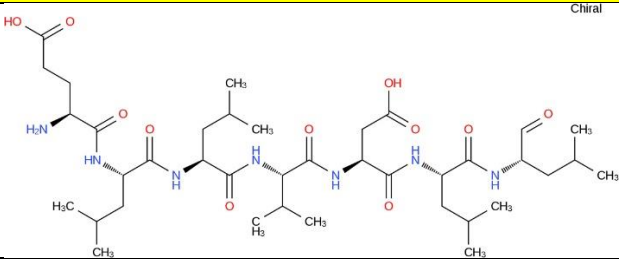
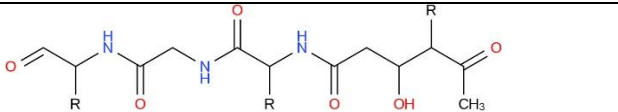
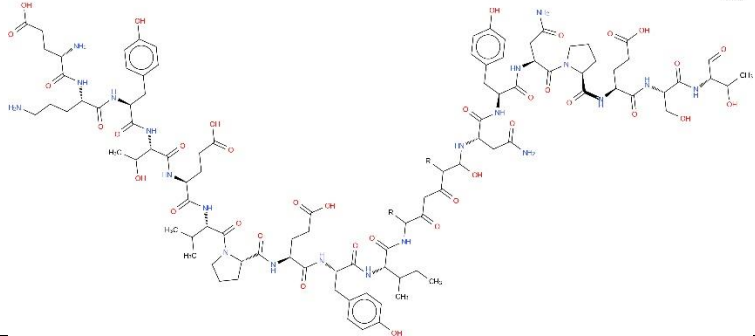
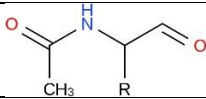
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>Lzh-a42</b>				
Cluster 1	Nrps	65411	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Phosphonate	40884	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102680	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137830	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	



Table S1. Continued.

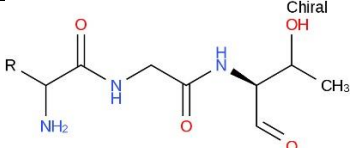
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>Lzh-a42</b>				
Cluster 11	Bacteriocin-Nrps	66796	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	68420	-	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 14	Lantipeptide	23984	Mersacidin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

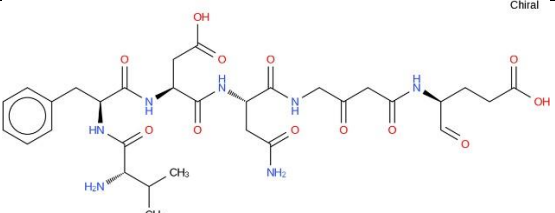
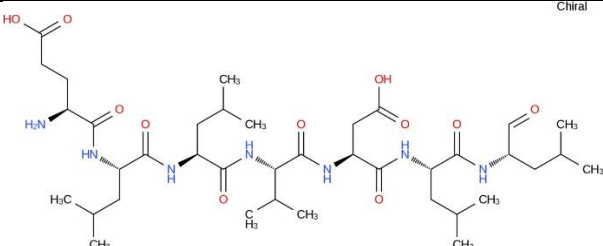
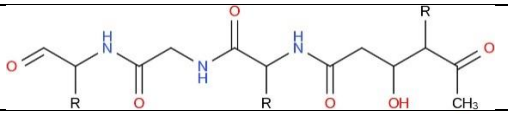
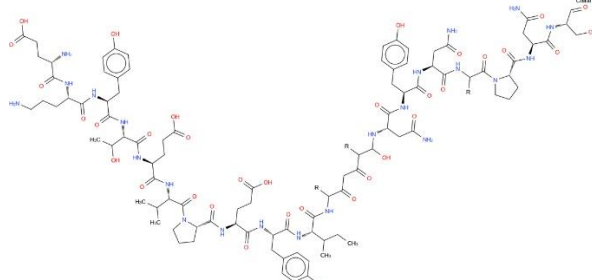
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CMT-6</b>				
Cluster 1	Transatpks-Nrps	77723	Locillomycin biosynthetic gene cluster (35% of genes show similarity)	
Cluster 2	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Lantipeptide	28889	-	-
Cluster 6	Transatpks	85875	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 7	Transatpks-Nrps	102701	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Transatpks-Nrps	137831	Fengycin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

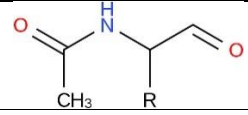
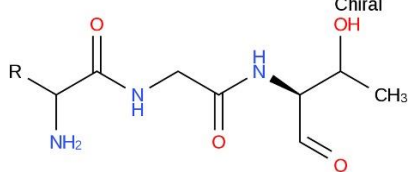
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CMT-6</b>				
Cluster 9	Terpene	21883	-	-
Cluster 10	T3pks	41100	-	-
Cluster 11	Transatpks	100450	Difficidin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Bacteriocin-Nrps	66790	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-

Table S1. Continued.

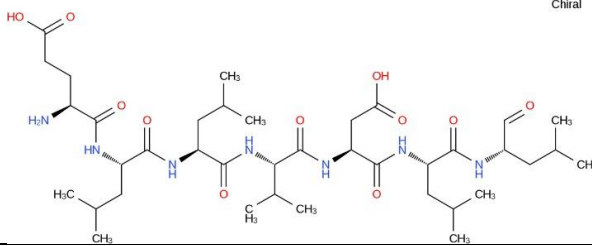
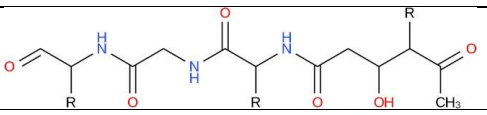
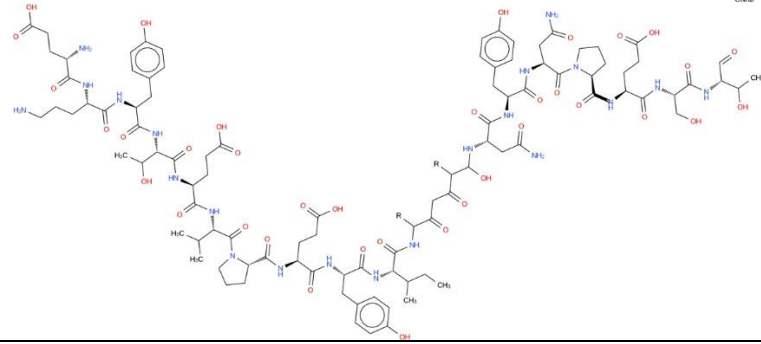
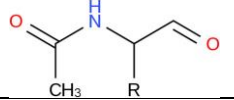
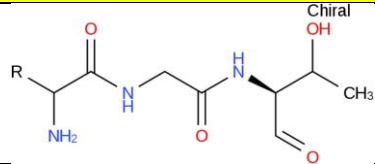
Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CN026</b>				
Cluster 1	Nrps	65407	Surfactin biosynthetic gene cluster (82% of genes show similarity)	
Cluster 2	Phosphonate	40884	-	-
Cluster 3	Otherks	41244	Butirosin biosynthetic gene cluster (7% of genes show similarity)	-
Cluster 4	Terpene	20740	-	-
Cluster 5	Transatpks	85902	Macrolactin biosynthetic gene cluster (100% of genes show similarity)	-
Cluster 6	Transatpks-Nrps	102683	Bacillaene biosynthetic gene cluster (100% of genes show similarity)	
Cluster 7	Transatpks-Nrps	137831	Fengycin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 8	Terpene	21883	-	-
Cluster 9	T3pks	41100	-	-
Cluster 10	Transatpks	100444	Difficidin biosynthetic gene cluster (100% of genes show similarity)	

Table S1. Continued.

Strain clusters	Type	Length (bp)	Most similar known clusters	Predicted core clusters
<b>CN026</b>				
Cluster 11	Bacteriocin-Nrps	66794	Bacillibactin biosynthetic gene cluster (100% of genes show similarity)	
Cluster 12	Nrps	65342	-	-
Cluster 13	Other	41418	Bacilysin biosynthetic gene cluster (100% of genes show similarity)	-