toxins

Supplementary Information S3

S3.1 The multiple sequence alignment of four putative new toxin genes (MMa12627 (BmKNaTx62), MMa29116 (BmKNaTx63), MMa34629 (BmKNaTx64) and MMa38588 (BmKNaTx65)), two predicted defensin genes (MMa09285 (BmKDfsin7) and MMa39355 (BmKDfsin8)) and their homologous genes

S3.2 The protein evidences of expressed toxin genes

S3.3 The peptide sequences with serial numbers in S3.2 from MS/MS identification of the *M. martensii* venom samples separated by 2-DE, SDS-PAGE and RP-HPLCa (the original data was from Xu et al. (2014)) [21]

S3.1 The multiple sequence alignment of four putative new toxin genes (MMa12627 (BmKNaTx62), MMa29116 (BmKNaTx63), MMa34629 (BmKNaTx64) and MMa38588 (BmKNaTx65)), two predicted defensin genes (MMa09285 (BmKDfsin7) and MMa39355 (BmKDfsin8)) and their homologous genes

S3.2 The protein evidences of expressed toxin genes

Twenty-one expressed genes with the MS/MS identification evidences of the *M. martensii* venom samples separated by 2-DE, SDS-PAGE and RP-HPLCa by Xu et al. (2014) [21]. Five genes with yellow shadow have the inconclusive evidences due to the inconsistency of an amino acid residue between the multiple alignment sequences of putative toxin genes and the peptide sequences from Xu et al. (2014) [21]

Name	**Gene ID**
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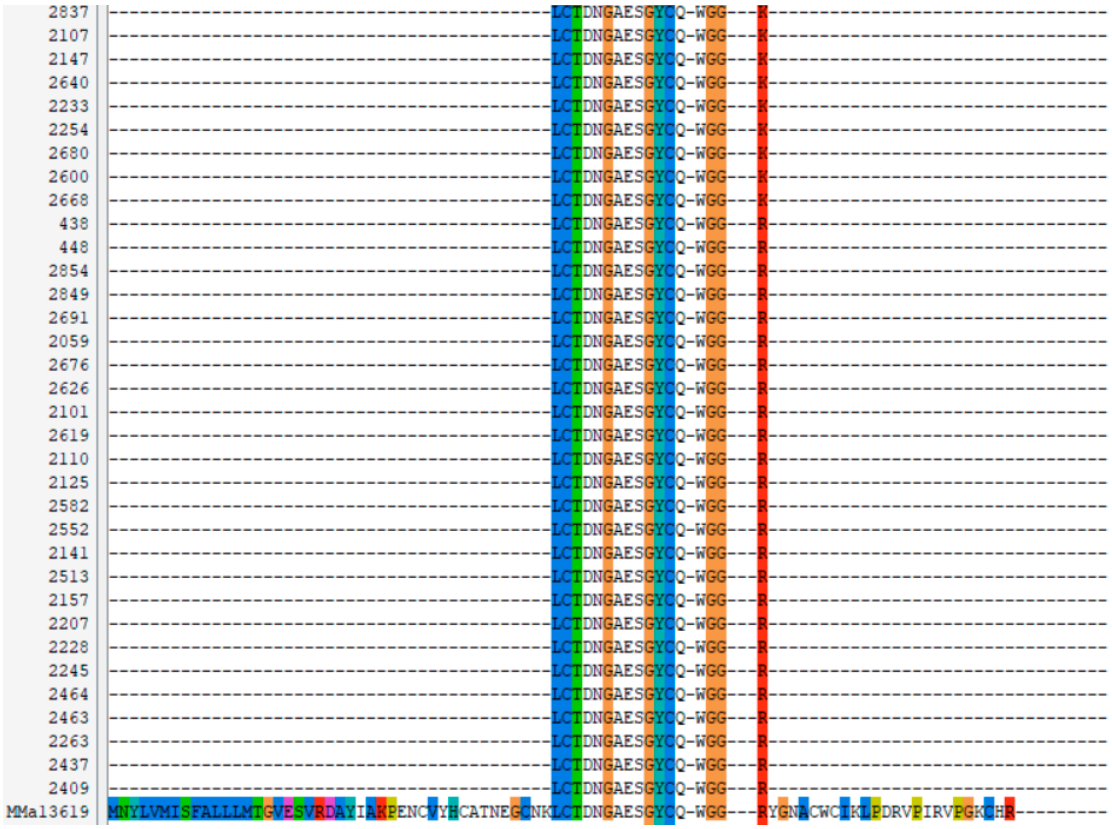
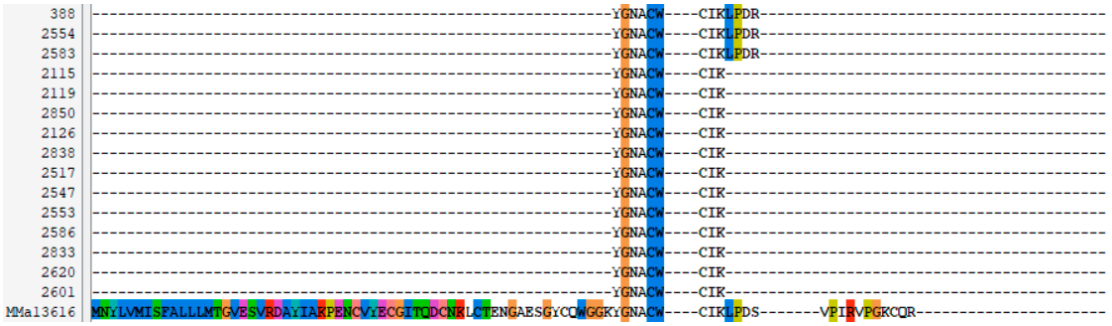


BmKNaTx2 MMa13616



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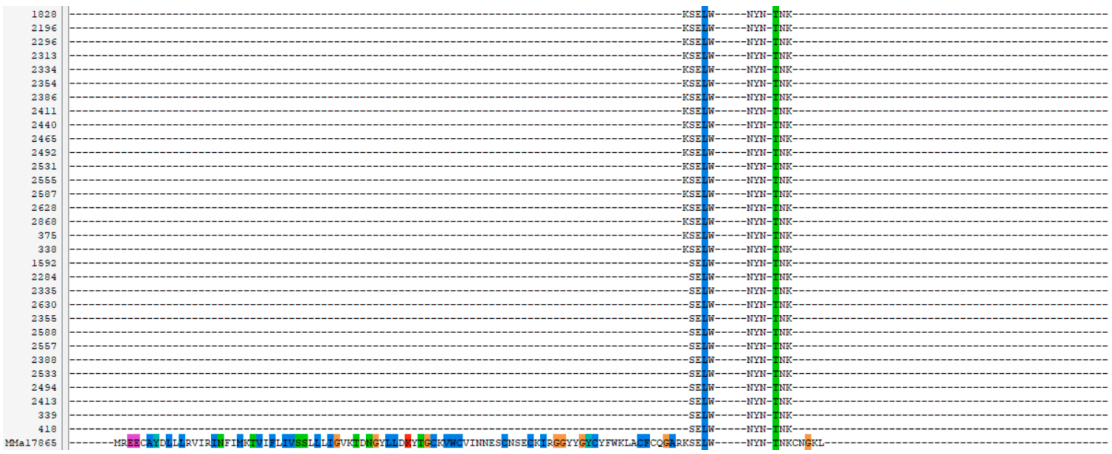

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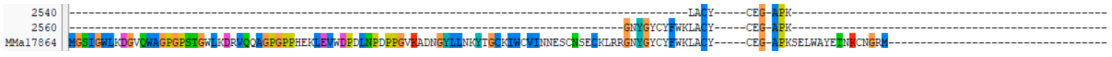

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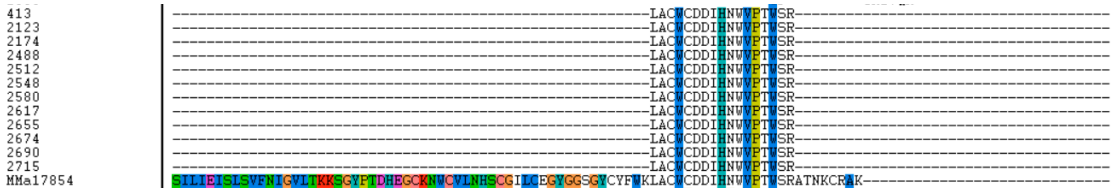

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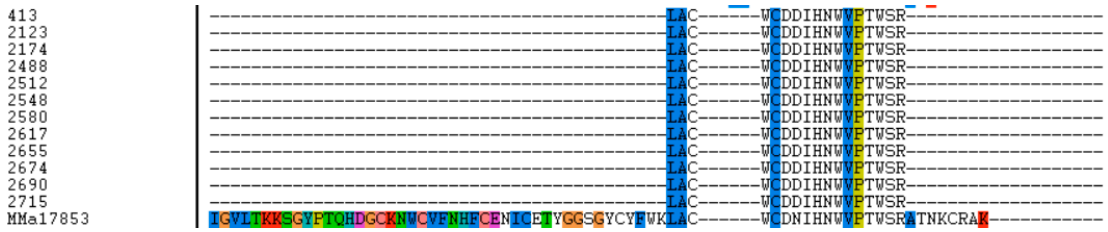
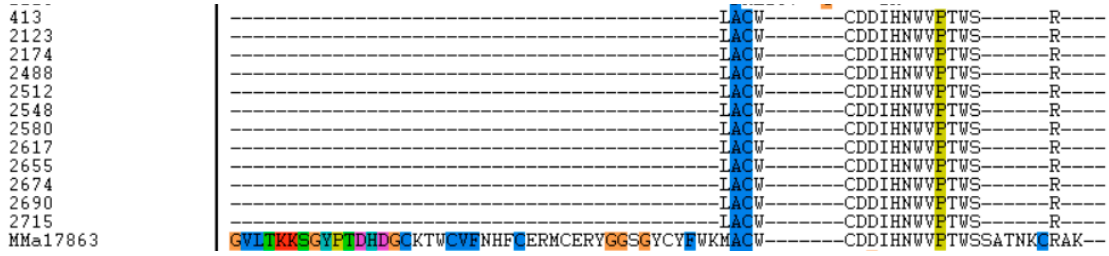
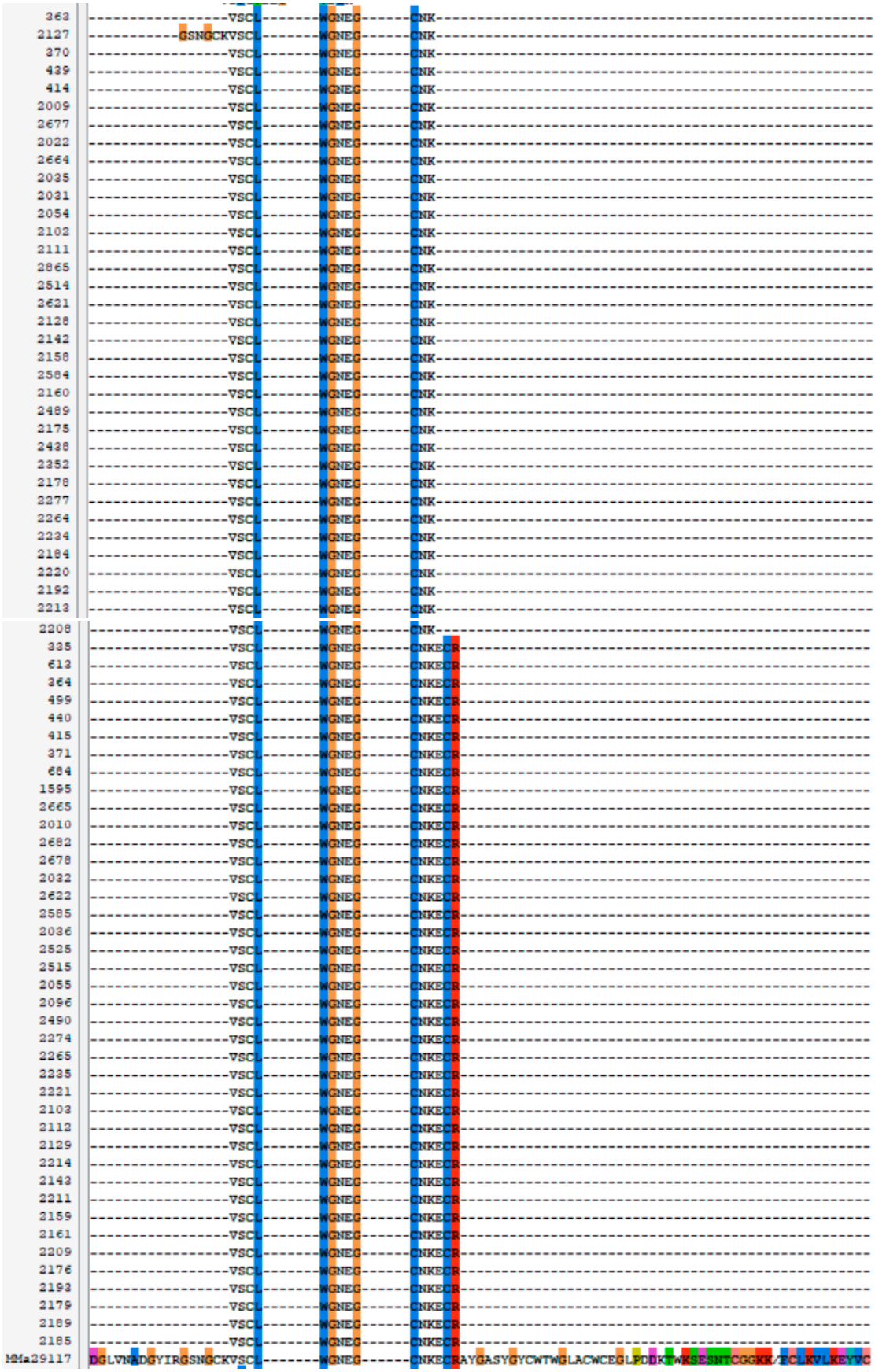


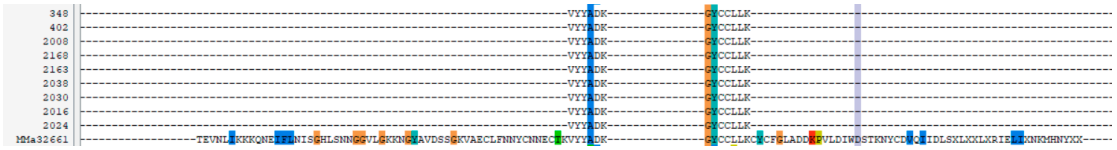
BmKNaTx8 MMa17863



BmKNaTx11 MMa29117



BmKNaTx15 MMa32661



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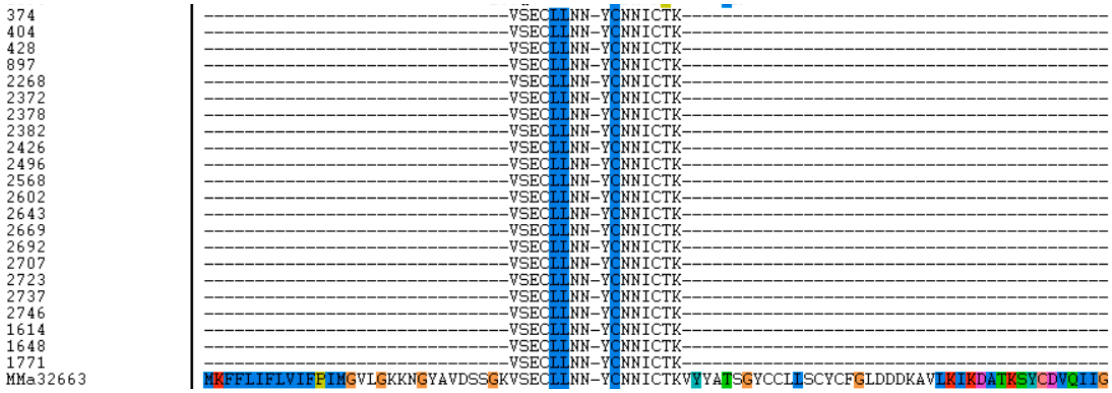
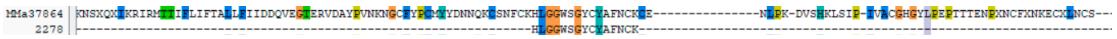


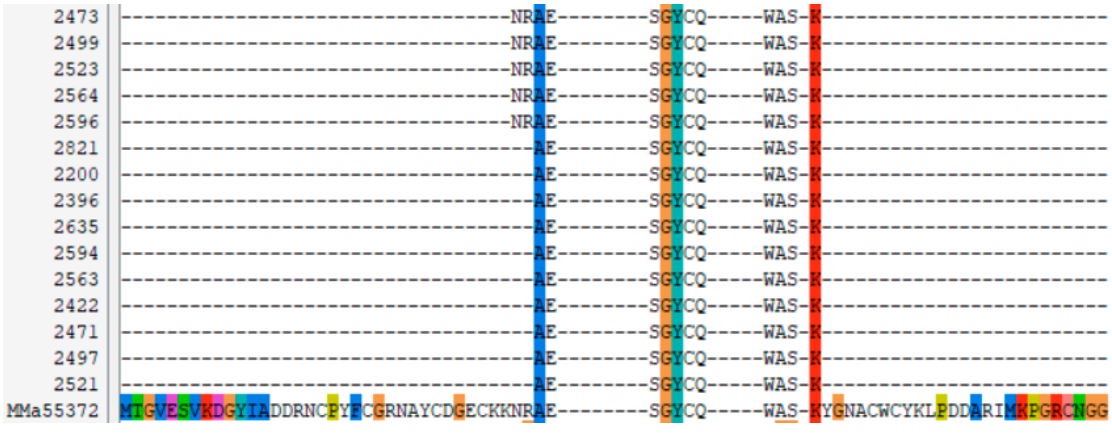
BmKNaTx22 MMa37864



BmKNaTx23 MMa43956

BmKNaTx24 MMa43955

BmKNaTx31 MMa55372



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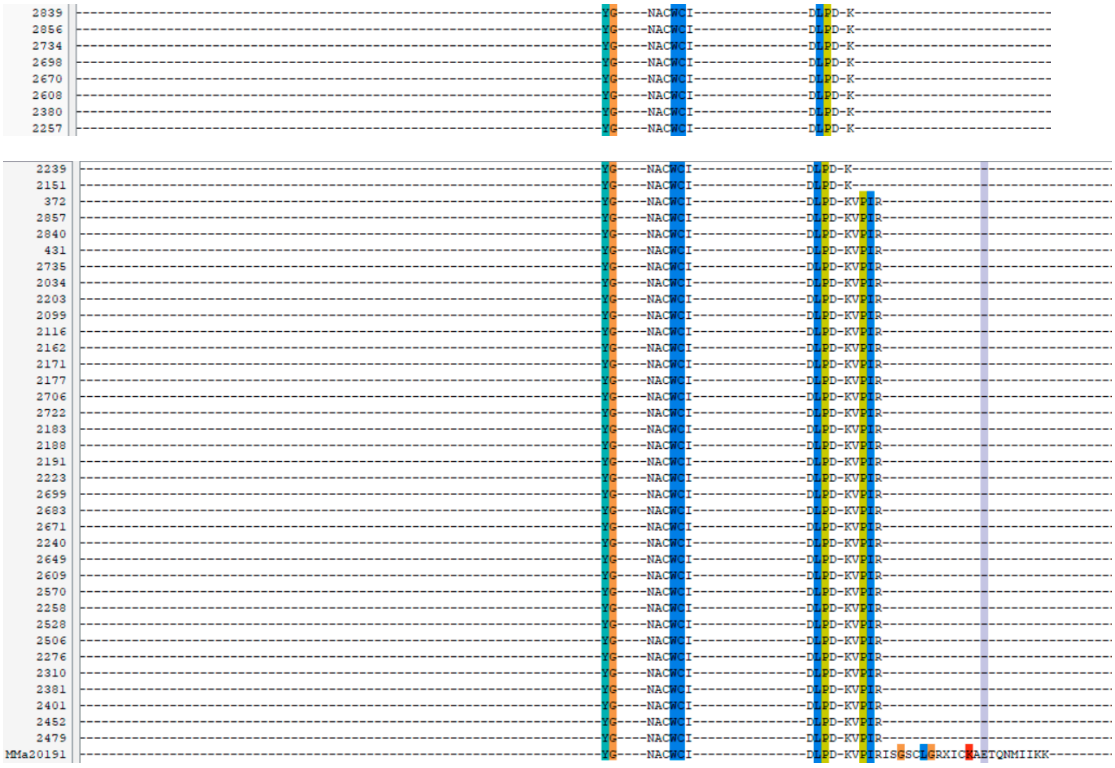

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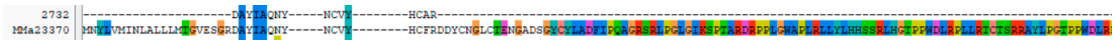

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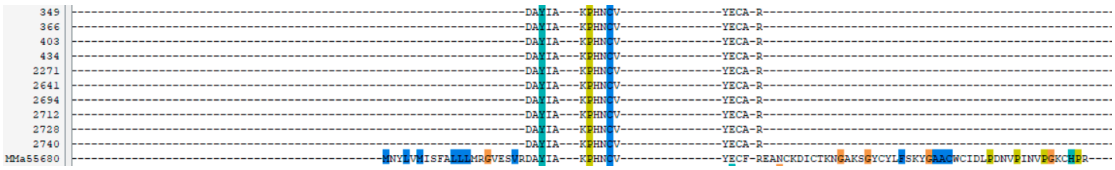

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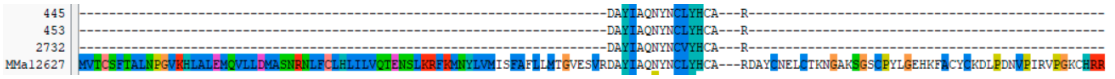

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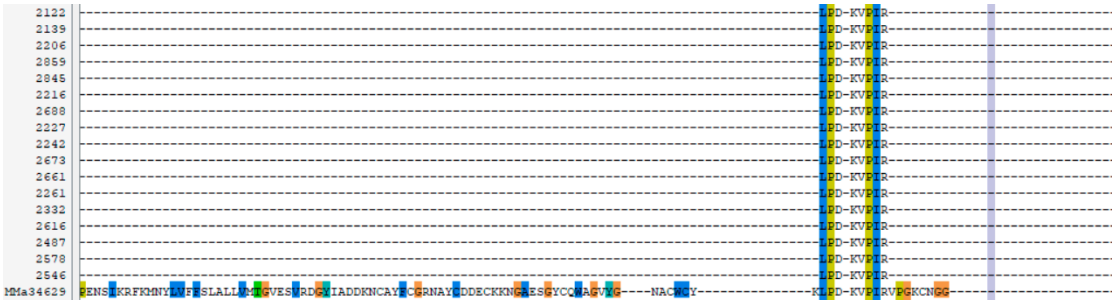

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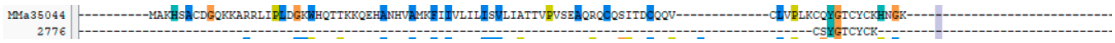
BmKaKTx10 MMa35044



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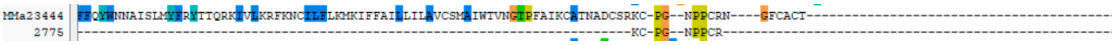

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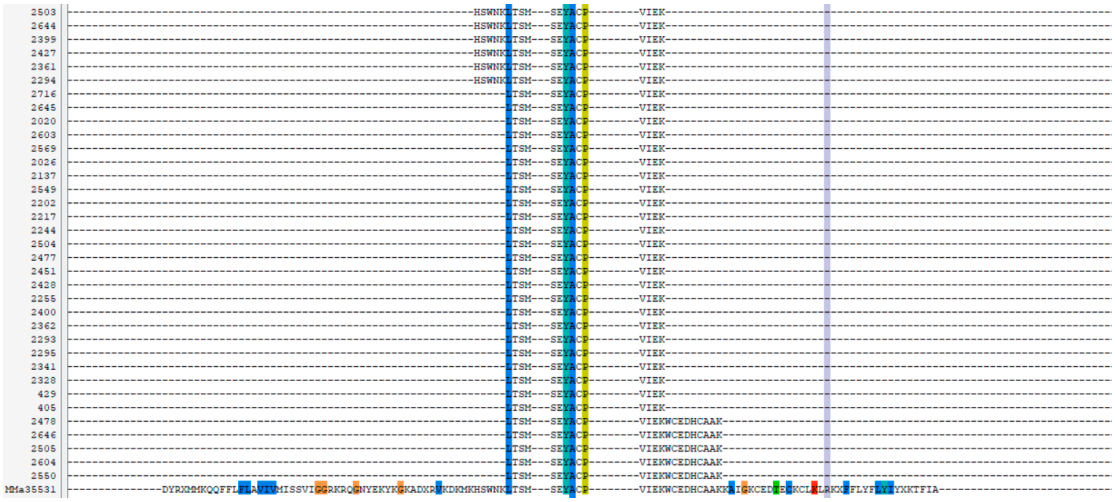

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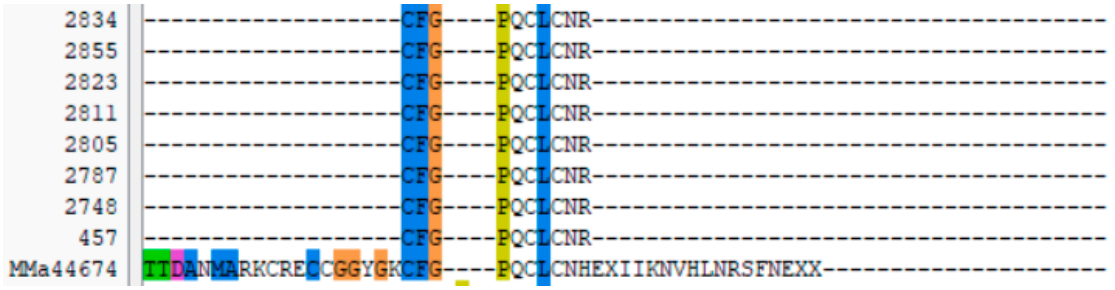

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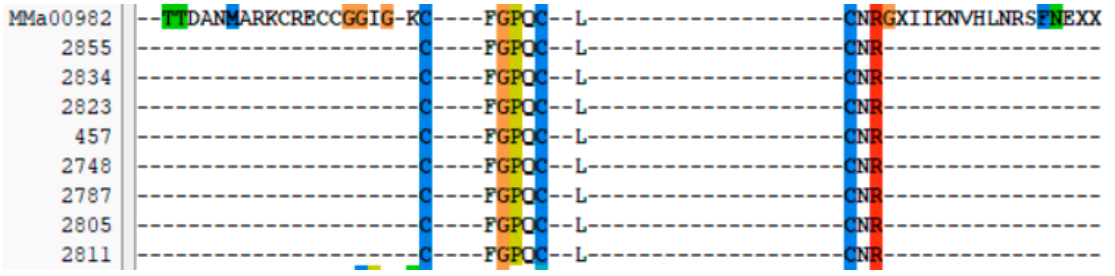

S3.3 The peptide sequences with serial numbers in S3.2 from MS/MS identification of the *M. martensii* venom samples separated by 2-DE, SDS-PAGE and RP-HPLCa (the original data was from Xu et al. (2014)) [21]

Name	Sequence ID	Peptide sequence
>1	>MMa46238	YKNPPYENYNVPPILDNYQK
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>13	>MMa19079	YIDVDQNELTR
>14	>comp197_c0_seq1_4	TYVKDVIAPVASTVIQNVNR
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>19	>comp158487_c0_seq1_6	QSTDLIPFIDSVTACSFIENTPK
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>37	>comp188_c0_seq1_3	YSCASSAMESLVR
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>39	>comp1172_c0_seq1_1	NQIDSIDDSLYGLTK

>40	>comp1172_c0_seq1_1	NQIDSIDDSLYGLTKLR
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>42	>MMa37755	EGGIISVNNVGLKVLCDTQR
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>178	>comp197_c0_seq1_4	QSTALCPSIYMQESHITK
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>223	>comp4077_c0_seq1_2	NNQIETLDNSLYNLQELK
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>238	>comp52_c1_seq1_5	VGCGYVSFEK
>239	>comp52_c1_seq1_5	VLGERGPDMDEGDFSR
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>248	>comp431_c0_seq1_5	LFYLYGADPVIGISVAPNDKNTK
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>287	>comp545_c0_seq1_1	IEQPVTLHPFAFR
>288	>comp1072_c0_seq3_6	LYLPLHDLPDTIFANQGNCLR
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>291	>comp52_c1_seq1_5	GAPAQYLDVNYVR
>292	>comp52_c1_seq1_5	SHSISYLGLCK
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>295	>MMa15302	SYELPDGQVITIGNER
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>314	>comp661_c0_seq1_2	FILVADDSQANER
>315	>comp1468_c0_seq1_6	ISVEEEINWPHK
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>318	>MMa31039	IISNEELNVIAGDVSPGKGK
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>323	>MMa08812	CADPGYPGVYTR
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>336	>comp20_c0_seq1_3	YAVPEGTLR
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>343	>MMa17864	SELWAYETNK
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>347	>MMa04555	VAECLFNNYCNNECTK
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>349	>comp7_c0_seq5_6	DAYIAKPHNCVYECAR
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>351	>comp20_c0_seq1_3	TIIQTAVHK
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>356	>comp53_c0_seq1_4	CNSWNDNLITK
>357	>comp8602_c1_seq2_6	IGVYLLNK
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>359	>comp16_c0_seq1_5	LEDKDVTIWNAVK
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>364	>MMa02192	VSCLWGNEGCNKECR
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>388	>MMa13619	YGNACWCIKLPDR
>389	>MMa13616	LCTENGAESGYCQWGGK
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>392	>MMa17865	VWCVINNESCNSECK
>393	>MMa17865	VWCVINNESCNSECKIR
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>410	>comp404_c0_seq1_2	NNFLNIENCCK
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>412	>MMa34629	DGYIADDKNCAYFCGR
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>428	>comp38_c0_seq1_5	VSECLLNNYCNNICTK
>429	>MMa35530	LTSMSEYACPVIEK
>430	>comp141_c0_seq1_4	KGFLLGFCDQR
>431	>MMa20191	YGNACWCIDLPDKVPIR
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>440	>MMa02192	VSCLWGNEGCNKECR
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>465	>comp188_c0_seq1_3	CTVDGWYCPLK
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>489	>comp188_c0_seq1_3	SVEDFANSWK
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>496	>comp188_c0_seq1_3	WDGKETILLTVEPFLR
>497	>comp188_c0_seq1_3	YEFMGSCSYYLVFHK
>498	>comp188_c0_seq1_3	YSCASSAMESLVR
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>507	>comp214_c0_seq1_6	AGPSSLVAIR
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>562	>MMa27598	SLELSSLHELEGKR
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>567	>MMa27598	VPSHQVMISGSATFDRR
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>577	>comp120_c0_seq1_2	TWTAFCEEENMVPCK
>578	>comp48_c0_seq1_5	LSTPVTFTPHVNR
>579	>comp12251_c0_seq10_5	ITTSRNTPYNDLASGCGGCVSLNISK
>580	>comp976_c0_seq1_5	ELISNASDALDKIR
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>594	>comp214_c0_seq1_6	LVLVFNSR
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>596	>comp214_c0_seq1_6	STLPVSFLCK
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>605	>comp775_c0_seq1_1	QYFVSWKEPEEQIGLGR
>606	>comp775_c0_seq1_1	SVELDDVLGGSPVQHR
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>608	>comp775_c0_seq1_1	VVQGAEPQHFLR
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>613	>MMa02192	VSCLWGNEGCNKECR
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>616	>comp1024_c0_seq1_4	IMPLIAVADPGYLIAR
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>619	>comp1024_c0_seq1_4	MVETIDKLVGFLLEK
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>636	>comp1072_c0_seq2_4	CPAYTGPCDCVFSR
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>649	>comp52_c1_seq1_5	YLFNCDFKTESSSDCQSQVEGANK
>650	>comp1072_c0_seq3_6	LYLPLHDLPDTIFANQGNCLR
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>652	>comp1172_c0_seq1_1	CPANTGPCDCFHVSSR
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>662	>comp1172_c0_seq1_1	NVENIIIGEDNYVINK
>663	>comp105006_c0_seq1_4	LATVISPR
>664	>comp197_c0_seq1_4	DVIAPVASTVIQNVNR
>665	>comp197_c0_seq1_4	ILVNQEETFNGDK
>666	>comp197_c0_seq1_4	LSHPNTLIYPYINYILPGTK
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>668	>comp197_c0_seq1_4	VAIEEWENSAK
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>670	>comp431_c0_seq1_5	DISNYLSIQFIR
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>690	>MMa42691	IGCGVAGYTEANTK
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>695	>comp4077_c0_seq1_2	LTTLDISNNR
>696	>comp268_c0_seq2_2	HLLYQQGGHEYIR
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>914	>comp1072_c0_seq2_4	CPAYTGPCDCVFSR
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>963	>comp61_c0_seq1_2	FSDNTAGIAFPNTVCR
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>1401	>comp1468_c0_seq1_6	AWDMWSFDGNNYQLR
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>1911	>comp1072_c0_seq2_4	CPAYTGPCDCVFSR
>1912	>comp1072_c0_seq3_6	LYLPLHDLPDTIFANQGNCLR
>1913	>comp52_c1_seq1_5	GAPAQYLDVNYVR
>1914	>comp52_c1_seq1_5	LADQCVFKHDCDECR
>1915	>comp52_c1_seq1_5	SHSISYLGLCK
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>1925	>comp1172_c0_seq1_1	MEKIPINALISLER
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>1927	>comp1172_c0_seq1_1	NELSSIAYGLEDLNNLEK
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>1931	>comp197_c0_seq1_4	DVIAPVASTVIQNVNR
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>1936	>comp1024_c0_seq1_4	GIQSTFTTK
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>1953	>comp1072_c0_seq1_4	ITELKDSLQELR
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>1955	>comp1072_c0_seq1_4	LGISSNLFNKLDVGK
>1956	>comp1072_c0_seq1_4	LIELAEISR
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>1958	>comp1072_c0_seq2_4	CPAYTGPCDCVFSR
>1959	>comp1072_c0_seq3_6	LYLPLHDLPDTIFANQGNCLR

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>1968	>comp52_c1_seq1_5	SHSISYLGLCK
>1969	>comp52_c1_seq1_5	TESSSDCQSQVEGANKWQTR
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>1971	>comp52_c1_seq1_5	VGCGYVSFEK
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>1973	>comp1072_c0_seq4_6	NFEDINQVQNALR
>1974	>comp1172_c0_seq1_1	ELSLAYNPLK
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>1976	>comp1172_c0_seq1_1	LCLYDLTIISGK
>1977	>comp1172_c0_seq1_1	LDLSYNSFTK
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>1979	>comp1172_c0_seq1_1	NQIDSIDDSLYGLTK
>1980	>comp1172_c0_seq1_1	NQIDSIDDSLYGLTKLR
>1981	>comp1172_c0_seq1_1	NVENIIIGEDNYVINK
>1982	>comp105006_c0_seq1_4	LATVISPR
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>1984	>comp197_c0_seq1_4	HPDWSPAQIEK
>1985	>comp197_c0_seq1_4	ILVNQEETFNGDK
>1986	>comp197_c0_seq1_4	IVIFYESQLGK
>1987	>comp197_c0_seq1_4	TYVKDVIAPVASTVIQNVNR
>1988	>comp197_c0_seq1_4	VAIEEWENSAK
>1989	>comp431_c0_seq1_5	ILITYPETIAK
>1990	>comp431_c0_seq1_5	QLNLPDNAR
>1991	>comp804_c0_seq1_5	VNDELNNLFLR
>1992	>comp508_c0_seq1_4	AGVLIGEILK
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>1994	>comp508_c0_seq1_4	YSGYLTSNPR
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>1996	>comp48_c0_seq1_5	LSTPVTFTPHVNR
>1997	>comp774_c0_seq1_5	CHDFENISQVQNALEK
>1998	>comp774_c0_seq1_5	FPSVIDMLDIR
>1999	>comp774_c0_seq1_5	GGIMEEFPINIFLPLK
>2000	>comp774_c0_seq1_5	IHSGILPNTLK
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>2002	>comp774_c0_seq1_5	NIDISKNPLQCTNNVSLVISSLILK
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>2004	>comp774_c0_seq1_5	NVQSLNLAGNQLTEIDESFNCLNK
>2005	>comp774_c0_seq1_5	TLNDELTGLR
>2006	>comp105006_c0_seq1_4	LATVISPR
>2007	>MMa04555	VAECLFNNYCNNECTK
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>2011	>comp105006_c0_seq1_4	LATVISPR
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>2014	>comp106427_c0_seq1_6	VATVPSIR
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>2017	>comp105006_c0_seq1_4	LATVISPR
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>2019	>comp10876_c0_seq1_2	LSSPASIDKK
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>2025	>comp105006_c0_seq1_4	LATVISPR
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>2029	>MMa04555	VAECLFNNYCNNECTK
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>2035	>MMa02192	VSCLWGNEGCNK
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>2039	>comp514_c1_seq77_5	CVLSLGNFLISK
>2040	>comp105006_c0_seq1_4	LATVISPR
>2041	>comp201_c0_seq1_3	DGYCVGDASICFCK
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>2043	>comp20_c0_seq1_3	YAVPEGTLR

>2044	>MMa15121	SFDYALTCSR
>2045	>MMa15121	VMDDFVDLSCNK
>2046	>MMa15121	YSDCLTTNIDVK
>2047	>comp16_c0_seq1_5	YYCTILGENEYCR
>2048	>comp53_c0_seq1_4	CNSWNDNLITK
>2049	>comp53_c0_seq1_4	ISCIPSEHDDLCDQFCK
>2050	>comp53_c0_seq1_4	ISCIPSEHDDLCDQFCKK
>2051	>comp21_c0_seq1_5	LHLASGGSCQQPAPFVK
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>2053	>MMa04555	VAECLFNNYCNNECTK
>2054	>MMa02192	VSCLWGNEGCNK
>2055	>MMa02192	VSCLWGNEGCNKECR
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>2057	>comp201_c0_seq1_3	DGYCVGDASICFCK
>2058	>comp105006_c0_seq1_4	LATVISPR
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>2060	>comp21_c0_seq1_5	LHLASGGSCQQPAPFVK
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>2070	>MMa15121	AKYSDCLTTNIDVK
>2071	>MMa15121	EYKSFDYALTCSR
>2072	>MMa15121	NAVSEFQLHEILK
>2073	>MMa15121	NAVSEFQLHEILKK
>2074	>MMa15121	SFDYALTCSR
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>2076	>MMa15121	VMDDFVDLSCNKLHPSSDEK
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>2078	>comp129172_c0_seq1_4	FQIYSKICLNK
>2079	>comp16_c0_seq1_5	LEDKDVTIWNAVK
>2080	>comp16_c0_seq1_5	LHGVTYGYCYNSR
>2081	>comp16_c0_seq1_5	YYCTILGENEYCR
>2082	>comp16_c0_seq1_5	YYCTILGENEYCRK
>2083	>comp20_c0_seq1_3	YAVPEGTLR
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>2091	>comp20_c0_seq1_3	YAVPEGTLR
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>2093	>comp16_c0_seq1_5	YYCTILGENEYCRK
>2094	>comp21_c0_seq1_5	LHLASGGSCQQPAPFVK
>2095	>comp105006_c0_seq1_4	LATVISPR
>2096	>MMa02192	VSCLWGNEGCNKECR
>2097	>MMa13616	LPDSVPIR
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>2100	>comp105006_c0_seq1_4	LATVISPR
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>2148	>comp173778_c0_seq1_6	ISCLWFQTRIGG
>2149	>comp10876_c0_seq1_2	LSSPASIDKK
>2150	>comp514_c1_seq77_5	CVLSLGNFLISK
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>2200	>MMa55372	AESGYCQWASK
>2201	>MMa55372	YGNACWCYKLPDDAR
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>2212	>comp33184_c0_seq4_1	IMGDIINK
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>2226	>comp105006_c0_seq1_4	LATVISPR
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>2231	>comp404_c0_seq1_2	TCESFIYGGVGGNK
>2232	>comp105006_c0_seq1_4	LATVISPR
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>2266	>MMa12627	DLPDNVPIR
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>2271	>comp7_c0_seq5_6	DAYIAKPHNCVYECAR
>2272	>comp7_c0_seq5_6	IGYCNIQGK
>2273	>comp3855_c0_seq4_5	MIQVSYTR
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>2489	>MMa02192	VSCLWGNEGCNK
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>2491	>MMa17865	GGYYGYCYFWK
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>2567	>comp7_c0_seq4_4	DAYIAKPENCVYHCATNEGCNK
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>2651	>comp20_c0_seq1_3	TQFGCPAYQGYCDDHCQDIK
>2652	>comp20_c0_seq1_3	YAVPEGTLR
>2653	>comp7_c0_seq8_6	CITIEGCNNFCTK
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>2655	>comp34_c2_seq1_2	LACWCDDIHNWVPTWSR
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>2668	>comp7_c0_seq4_4	LCTDNGAESGYCQWGGK
>2669	>comp38_c0_seq1_5	VSECLLNNYCNNICTK
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>2671	>MMa20191	YGNACWCIDLPDKVPIR
>2672	>comp105006_c0_seq1_4	LATVISPR
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>2693	>MMa04118	CFASSECWTACK
>2694	>comp7_c0_seq5_6	DAYIAKPHNCVYECAR
>2695	>comp7_c0_seq5_6	NEYCNDLCTK
>2696	>comp191_c0_seq1_3	CVIEAEGSLIYHLCK
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>2739	>comp105006_c0_seq1_4	LATVISPR
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>2774	>comp12_c2_seq3_1	DCQQYCLTPDR
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>2795	>comp42_c0_seq1_6	NDIVEEPFK
>2796	>comp191_c0_seq1_3	TATFCTQSICQESCK
>2797	>MMa01489	FNPTSEAGAGR
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>2804	>MMa04118	CFASSECWTACK
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>2810	>MMa04118	CFASSECWTACK
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>2817	>comp404_c0_seq1_2	NNFLNIENCCK
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>2835	>MMa18140	LPDPVDLR
>2836	>comp7_c0_seq4_4	DAYIAKPENCVYHCATNEGCNK
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>2838	>comp7_c0_seq4_4	YGNACWCIK
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>2840	>MMa20191	YGNACWCIDLPDKVPIR
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>2848	>MMa13619	DAYIAKPENCVYHCATNEGCNK
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>2868	>MMa17865	KSELWNYNTNK
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>2870	>MMa17865	VWCVINNESCNSECK
>2871	>comp33184_c0_seq4_1	IMGDIINK