

SFB sequences alignment

	421					480
AY587563.1	GATTTT	CCTTG	CCTATTACCA	ATCTCAAAAG	TGAGTCATTG	TCATTGGACT TTCTGCAAAA
AY587562.1	CTTCCC	CATTG	CCGATTACGA	ACCTCAAAAG	TGAGTCATTG	-----GACT TTCTGCGAAA
AY587565.1	CTTTTC	CATTG	CCCAT-ACCA	ACCTCAGAAG	TAAGTCATTG	-----G--- TTCTGCAAAA
DQ422946.1	CCCTT	CCTTG	CCTATTCCCA	ACCTCAAAAG	TGAGTCGTTG	-----GACT TTCTGCAAAA
DQ887488.1		TTG	GCTATTTRTCA	ACCGCAAAAG	TGAGTCGTTG	-----GACT TTCTGCAAAA
EF101912.1						
DQ897929.1		TTA	GCTATTSTMA	-CCTCAAAAG	TGAGTCGTTG	-----GACT TTCTGCAAAA
FJ477418.1		TTG	CCTATTATCA	ACCGCAAAAG	TGAGTACT--	-----GCACT TTGTGCAAAA
EF053406.1						
	481					540
AY587563.1	ATGGAAGCAC	CAATTTTATTT	CCTAACTTGA	TTGTATTACA	ATCCATATTC	TAAATTCGAA
AY587562.1	AAGAAAGCAC	AATTGT-TTT	---AACTTTG	TTCCGTTATG	ATCCATACTT	TAGATTCTAA
AY587565.1	CTAAAGCAC	CATTGT-CTT	CCTAACTTTG	TTTGTCAACG	ATCCATACTT	TAGATTCTAA
DQ422946.1	ATGAAAAGCA	CTATTGTTTT	CC-----TTG	TTTTGTTATG	ATCAATATTT	TGGATGCTAA
DQ887488.1	ATGAAAAGCA	CTATTGTTTT	CC-----TTG	TTTTGTTATG	ATCAATATTT	TGGATGCTAA
EF101912.1						
DQ897929.1	ATGAAAAGCA	CTATTGTTTT	CC-----TTG	TTTTGTTATG	ATCAATATTT	TGGATGCTAA
FJ477418.1	ATGAAAGAGC	--ATTGCTTT	CCTAACTTTG	TTTTGTTATG	ATCCGTACTT	TAGATTCTAA
EF053406.1						
	541					600
AY587563.1	CTTATCTTAT	TA-----TG	ATTCAGGATG	GCATTACAC	TACGCAAGAA	AGAAATCTTA
AY587562.1	CTTATTTTCA	TTATGATTTT	CTTCAGGATG	ACATTACGC	TGCATAAGAA	AGAAATCTTA
AY587565.1	CATATTTTCG	TTATGAGTTT	CTTCAGCATG	ACATTCACTC	TATGTAAGAA	AGAAATTTTA
DQ422946.1	CTTATTTTGA	TTATGA-TTT	CTTCAGGATG	ACATTACAC	TACGTAAGAA	AGAAATCTTA
DQ887488.1	CTTATTTTGA	TTATGA-TTT	CTTCAGGATG	ACATTACAC	TACGTAAGAA	AGAAATCTTA
EF101912.1					TAAGAA	AGAAATCTTA
DQ897929.1	CTTATTTTGA	TTATGA-TTT	CTTCAGGATG	ACATTACAC	TACGTAAGAA	AGAAATCTTA
FJ477418.1	CATATTTTCA	TTATGATTTT	CTTCAGGATG	GCATTACAC	TACGTAAGAA	AGAAATCTTA
EF053406.1						
	601	SFBc-F				660
AY587563.1	GTCGACATCC	TAGTAAGACT	ACCTGCAAAA	TCTCTCGTTC	GGTTTCTGTG	TACATGCAAG
AY587562.1	ATCGACATCC	TAGTAAGACT	ACCCGCAAAA	TCCCTCGTTC	GGTTTCTGTG	TACATGCAAG
AY587565.1	GTCGACATCC	TGGTAAGACT	GCCTGCAAAA	TCTCTCGTTC	GGTTTATGTG	TACATGTAAG
DQ422946.1	ATCGACATCC	TAGTAAGACT	ACCTGCAAAA	TCCCTTATTC	GCTTTCTGAG	TACATGCAAG
DQ887488.1	ATCGACATCC	TAGTAAGACT	ACCTGCAAAA	TCCCTTATTC	GCTTTCTGAG	TACATGCAAG
EF101912.1	ATCGACATCC	TAGTAAGACT	ACCTGCAAAA	TCCCTTATTC	GCTTTCTGAG	TACATGCAAG
DQ897929.1	ATCGACATCC	TAGTAAGACT	ACCTGCAAAA	TCCCTTATTC	GCTTTCTGAG	TACATGCAAG
FJ477418.1	ATCGACATCC	TACTAAGACT	ACCTGCAAAA	TCCCTCATT	GGTTTCTAAG	TACATGCAAG
EF053406.1				T	TCTCTTGTT	GGTTTCTGTG TACATGCAAG
	661					720
AY587563.1	TCATGGAGTG	GTTTGATTGG	CAGCTCGAGT	TTTGTTAGCA	TACACCTTAA	CAGGAATGTC
AY587562.1	TTATGGGGTG	ATTTGATTGG	CAGCTCAAGT	TTTGTTAGTG	CACACCTTAA	TAGGAATGTC
AY587565.1	TCATGGAGTG	ATTTGATTGG	CAGCTCCAGT	TTTGTTAGCA	CACACCTTAA	TAGGAATGTC
DQ422946.1	TCGTGGAGTG	ATTTGATTGG	AAGCTCAATT	TTTGTTAGCA	CACACCTTTG	TAGGAATGTG
DQ887488.1	TCGTGGAGTG	ATTTGATTGG	AAGCTCAATT	TTTGTTAGCA	CACACCTTTG	TAGGAATGTG
EF101912.1	TCGTGGAGTG	ATTTGATTGG	AAGCTCAATT	TTTGTTAGCA	CACACCTTTG	TAGGAATGTG
DQ897929.1	TCGTGGAGTG	ATTTGATTGG	AAGCTCAATT	TTTGTTAGCA	CACACCTTTG	TAGGAATGTG
FJ477418.1	TCATGGAGTG	ATTTGATTGG	CAGCTCGAGT	TTTGTTAGCA	CACATCTTAA	TAAGAATGTC
EF053406.1	TCGTGGAGTG	ATTTGATTGG	AAGCTCAATT	TTTGTTAGCA	CACACCTTTG	TAGGAATGTG
	721					780
AY587563.1	ACAGAACATG	CCCATGTCTA	TCTACTCTGC	CTCCTCCACC	CAAATTTTGA	ACGTCTGGCC
AY587562.1	ACAAAACGTG	CCCCTGTATA	TCTTCTTTGC	CTCCACCACC	CAAATTTTGA	ACGTGAGAAC
AY587565.1	AATAAACATG	CCCATGTATA	TCTACTTTGC	CTCCACCATC	CAAATTTTGA	ATGTGTGGTG
DQ422946.1	ACAAAACATA	CCCATGTTTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	GCGTTTGGTC
DQ887488.1	ACAAAACATA	CCCATGTTTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	GCGTTTGGTC

EF101912.1	ACAAAACATA	CCCATGTTTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	GCGTTTGGTC
DQ897929.1	ACAAAACATA	CCCATGTTTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	GCGTTTGGTC
FJ477418.1	ACAAAACATG	CCCATGTCTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	ATGTGTGATC
EF053406.1	ACAAAACATA	CCCATGTTTA	TCTACTTTGC	CTCCACCACC	CAAATTTTGA	GCGTTTGGTC
	781					840
AY587563.1	GACCCTGATG	ACCCATATGT	TAAACAAGAG	TTTAGCTGGT	CTCTTTTTTC	GAATGAAACA
AY587562.1	GACACTGATG	ACCCATATGA	CATAGAAGAA	CTTCAGTGGT	CACTTTTTTC	CAAAGAAACA
AY587565.1	GACCCTGATG	ACCCATATTT	AGAAGAAGAA	GTTCAATGGT	CTCTTTTTTC	CAATGAAACA
DQ422946.1	GACCCTAATG	ACCCATATCT	TAAAAAGGAA	TTTCAATGGT	CTCTTTTTTC	CAAAGAAACA
DQ887488.1	GACCCTAATG	ACCCATATCT	TAAAAAGGAA	TTTCAATGGT	CTCTTTTTTC	CAAAGAAACA
EF101912.1	GACCCTAATG	ACCCATATCT	TAAAAAGGAA	TTTCAATGGT	CTCTTTTTTC	CAAAGAAACA
DQ897929.1	GACCCTAATG	ACCCATATCT	TAAAAAGGAA	TTTCAATGGT	CTCTTTTTTC	CAAAGAAACA
FJ477418.1	GACCCCGATG	ACCCATATTT	AGAAGAAGAA	CTTCAATGGT	CTCTTTTTTC	CAATGTAACA
EF053406.1	GACCCTAATG	ACCCATATCT	TAAAAAGGAA	TTTCAATGGT	CTCTTTTTTC	CAAAGAAACA
	841	RFBc-F				900
AY587563.1	TTTGAGGAAA	GCTCCAAGAT	AACCCATCCC	TTAGGGAGCA	CAGAACATTA	TGGGATATAT
AY587562.1	TTTGAGCAGT	TCTCCAAGTT	AACCCATCCC	TTAGGAAGCA	CAGAATATTA	TGGGGTATAT
AY587565.1	TTTGAGGAAT	GCTCCAAGTT	AAACCATCCC	TTAGGGAGCA	CAGAACATTA	TGGGATATAT
DQ422946.1	TTTGAGGAGT	GCTACAAACT	AAGCCATCCC	TTAGGGATGA	CAGAACATTA	TGGGATATAT
DQ887488.1	TTTGAGGAGT	GCTACAAACT	AAGCCATCCC	TTAGGGATGA	CAGAACATTA	TGGGATATAT
EF101912.1	TTTGAGGAGT	GCTACAAACT	AAGCCATCCC	TTAGGGATGA	CTGAACATTA	TGGGATATAT
DQ897929.1	TTTGAGGAGT	GCTACAAACT	AAGCCATCCC	TTAGGGATGA	CAGAACATTA	TGGGATATAT
FJ477418.1	TTTGAGAAGT	GCTCCAAGTT	AAGCCATCCC	CTAGGAAGCA	CAAAACATTA	TGGGATATAT
EF053406.1	TTTGAGGAGT	GCTACAAACT	AAGCCATCCC	TTAGGGATGA	CAGAACATTA	TGGGATATAT
	901					960
AY587563.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATT	TGAATTTTCA	TAGTCCTATA
AY587562.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCT	TGAATTTTCA	TAGTCCTATA
AY587565.1	GGCTCCAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATAT	TGAATTTTCA	TAGTCCTATA
DQ422946.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCC	TGAATTTTCA	TAGTCCTATA
DQ887488.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCC	TGAATTTTCA	TAGTCCTATA
EF101912.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCC	TGAATTTTCA	TAGTCCTATA
DQ897929.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCC	TGAATTTTCA	TAGTCCTATA
FJ477418.1	GGTTCAAGCA	ATGGTTTGCT	TTGCATTTCT	GATGAGATAT	TGAATTTTCA	TAGTCCAATA
EF053406.1	GGTTCAAGCA	ATGGTTTAGT	TTGCATTTCA	GATGAGATCC	TGAATTTTCA	TAGTCCTATA
	961					1020
AY587563.1	CACATATGGA	ACCCGTCGGT	TAAGAAATTT	AAGACCCCTC	CAATGAGCAC	CAACATTAAC
AY587562.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGACCCCTC	AAATGAGCAC	CAACATTAAC
AY587565.1	CATATATGGA	ACCCATCAGT	TAGGAACTTT	CGGACCCCTC	CAATAAGCAC	CAACATCA--
DQ422946.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGGCCCTTC	CAATGAGCAC	CAACATTAAC
DQ887488.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGGCCCTTC	CAATGAGCAC	CAACATTAAC
EF101912.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGGCCCTTC	CAATGAGCAC	CAACATTAAC
DQ897929.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGGCCCTTC	CAATGAGCAC	CAACATTAAC
FJ477418.1	CACATATGGA	ACCCATTGGT	TGGAAGATAT	AGGACCCCTC	CAATGAGCAC	CAACATTAAC
EF053406.1	CACATATGGA	ACCCATCAGT	TAGGAAATTT	AGGGCCCTTC	CAATGAGCAC	CAACATTAAC
	1021					1080
AY587563.1	ATTAAATTTA	GCCTCGTTTC	TCTCCAATTC	GGGTTCCATC	CTAGGGTTAA	TGACTACAAG
AY587562.1	GTTAAATTTA	GCTATGTTGC	TCTCCAATTC	GGGTTCCACC	CCCTCGTTAA	TGACTACAAG
AY587565.1	-TTAAATTTA	GCCATGTTGC	TCTCCAGTTC	GGGTTCCATC	CCGGGGTTAA	TGACTATAAG
DQ422946.1	ATTAAATTTA	GCTGTGTTGC	TCTCCAGTTC	GGGTTCCACC	CTGGGGTTAA	TGACTACAAG
DQ887488.1	ATTAAATTTA	GCTGTGTTGC	TCTCCAGTTC	GGGTTCCACC	CTGGGGTTAA	TGACTACAAG
EF101912.1	ATTAAATTTA	GCTGTGTTGC	TCTCCAGTTC	GGGTTCCACC	CTGGGGTTAA	TGACTACAAG
DQ897929.1	ATTAAATTTA	GCTGTGTTGC	TCTCCAGTTC	GGGTTCCACC	CTGGGGTTAA	TGACTACAAG
FJ477418.1	ATTAAATTTA	ATTATGTTGC	TCTCCAATTC	GGGTTTCACC	CTGGGGTTAA	TGACTACAAG
EF053406.1	ATTAAATTTA	GCTGTGTTGC	TCTCCAGTTC	GGGTTCCACC	CTGGGGTTAA	TGACTACAAG
	1081					1140
AY587563.1	GCTGTAAGGA	TGATGCGCAC	CAACAAAAT	GTCTTGCGCG	TTGAGGTTTA	TAGTCTCAGC
AY587562.1	GCTGTAAGGA	TGATGCGTAC	CAACAAAAT	TCTTTGCGAG	TTGAGGTTTA	TAGTCTTAGA

AY587565.1	GCTGTAAGGA	TGATGCGTAC	CAACAAAAAT	GCCTTGGCGA	TTGAGGTGTA	TAGTCTTAGA
DQ422946.1	GCTGTAAGGA	TGATGCGTAC	CAATAAAAGT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTCAAA
DQ887488.1	GCTGTAAGGA	TGATGCGTAC	CAATAAAAGT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTCAAA
EF101912.1	GCTGTAAGGA	TGATGCGTAC	CAATAAAAGT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTCAAA
DQ897929.1	GCTGTAAGGA	TGATGCGTAC	CAATAAAAGT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTCAAA
FJ477418.1	GCTGTAAGGA	TGATGCGTAC	CAACAAAGAT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTTAGA
EF053406.1	GCTGTAAGGA	TGATGCGTAC	CAATAAAAGT	GCCTTGGCGG	TTGAGGTTTA	TAGTCTCAAA
	1141				RFBc-R	1200
AY587563.1	ACAGACTCTT	GGAAAATGGT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTGGCAGCAT
AY587562.1	ACAAACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TGAAATGCAC	TTGGCAGCAT
AY587565.1	ACAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAGTGCAC	TTGGCAGCAT
DQ422946.1	AGAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTTGGAACAT
DQ887488.1	AGAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTTGGAACAT
EF101912.1	AGAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTTGGAACAT
DQ897929.1	AGAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTTGGAACAT
FJ477418.1	ACAGACTCGT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTGGCAGCAT
EF053406.1	AGAGACTCTT	GGAAGATGAT	TGAAGCAATT	CCTCCTTGGT	TAAAATGCAC	TTTGGAACAT
	1201		SFBj-F			1260
AY587563.1	CATAAGGGTA	CATTTTTTAA	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTCTATTC
AY587562.1	TATAAGGGTA	CCTTTTTTAA	TGGAGTAGCA	TACCACATCA	TCGAGAAAGG	TCCTATATTC
AY587565.1	TATAAGGGTA	CATTTTTTAA	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATATTC
DQ422946.1	CATAGGGGTA	CGTTTTTCAG	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATGCTC
DQ887488.1	CATAGGGGTA	CGTTTTTCAG	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATGCTC
EF101912.1	CATAGGGGTA	CGTTTTTCAG	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATGCTC
DQ897929.1	CATAGGGGTA	CGTTTTTCAG	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATGCTC
FJ477418.1	CATATGGGTA	CATTTTTTAA	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCCATATTC
EF053406.1	CATAGGGGTA	CGTTTTTCAG	TGGAGTAGCA	TACCACATCA	TTGAGAAAGG	TCCTATGCTC
	1261		SFBc-R			1320
AY587563.1	AGCATTATGT	CCTTCGATTC	AGGCAGTGAA	GAATTCGAAG	AATTCATAGC	ACCAGATGCC
AY587562.1	AGCATTATGT	CCTTCGATTC	AGGCAGTGAA	GAATTCGAAG	AATTCATAGC	ACCAGATGCC
AY587565.1	AGCATCATGT	CCTTCGATTC	AGGCAGTGAA	GAATTCGAGG	AATTCATAGC	ACCAGATGCC
DQ422946.1	AGCATTATGT	CATTCGATTC	AGGCAGTGAA	AAATTCGAAG	AAATCATAGC	ACCAGATGCC
DQ887488.1	AGCATTATGT	CATTCGATTC	AGGCAGTGAA	AAATTCGAAG	AAATCATAGC	ACCAGATGCC
EF101912.1	AGCATTATGT	CATTCGATTC	AGGCAGTGAA	AAATTCGAAG	AAATCATAGC	ACCAGATGCC
DQ897929.1	AGCATTATGT	CATTCGATTC	AGGCAGTGAA	AAATTCGAAG	AAATCATAGC	ACCAGATGCC
FJ477418.1	AGCATTATGT	CCTTCGATTC	AAGCAGTGAA	GAATTCGAAG	AGTTCATAGC	ACCAGATGCC
EF053406.1	AGCATTATGT	CATTCGATTC	AGGCAGTGAA	AAATTCGAAG	AAATCATAGC	ACCAGATGCC
	1321					1380
AY587563.1	ATTTGCCGTT	CATTGGGGTT	ATGCATCGAC	GTTTACAAGG	AACACATTTG	CTTGCTTTTT
AY587562.1	ATTTGCAGTT	CATGGGGGTT	ATGTATTGAC	GTTTACAAGG	AAAATATTTG	CTTGCTTCTT
AY587565.1	ATTTGCCGTT	CATCTGAGGT	ATGTATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
DQ422946.1	ATTTGCAGTT	TATGGGGGTT	ATATATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
DQ887488.1	ATTTGCAGTT	TATGGGGGTT	ATATATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
EF101912.1	ATTTGCAGTT	TATGGGGGTT	ATATATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
DQ897929.1	ATTTGCAGTT	TATGGGGGTT	ATATATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
FJ477418.1	ATTTGCAGTT	CATGGAGGTT	ATGCATCAGC	GTTTACAAGG	AACAACCTTG	CTTGCTTTTT
EF053406.1	ATTTGCAGTT	TATGGGGGTT	ATATATTGAC	GTTTACAAGG	AACAAATTTG	CTTGCTTTTT
	1381				SFB-F	1440
AY587563.1	GGATTTTATG	GTTGTGAGGA	GGAGGGCATG	GACAAAATTG	ACTTATGGGT	TCTGCAAGAG
AY587562.1	CAGTTTTATT	CTAGTGAGGA	GGAGGGGATG	CGAAAAGCTG	ACTTATGGGT	TCTGCAAGAA
AY587565.1	GGATTTTATC	GTTGTGAGGA	GATGGGCATG	GATAAAATTG	ACTTGTGGGT	TCTGCAAGAA
DQ422946.1	ATATGTTATG	GGTGTGAGGA	GGAGGGCATG	GAAAAAGCTG	ACTTATGGGT	TCTGCAAGAA
DQ887488.1	ATATGTTATG	GGTGTGAGGA	GGAGGGCATG	GAAAAAGCTG	ACTTATGGGT	TCTGCAAGAA
EF101912.1	ATATGTTATG	GGTGTGAGGA	GGAGGGCATG	GAAAAAGCTG	ACTTATGGGT	TCTGCAAGAA
DQ897929.1	ATATGTTATG	GGTGTGAGGA	GGAGGGCATG	GAAAAAGCTG	ACTTATGGGT	TCTGCAAGAA
FJ477418.1	GGATTTTATG	GTTGTGAGGA	GGAGGACATG	GAAAAACTTC	TCTTATGGGT	TCTGCAAGAA
EF053406.1	ATATGTTATG	GGTGTGAGGA	GGAGGGCATG	GAAAAAGCTG	ACTTATGGGT	TCTGCAAGAA

	1441	SFBcj-F						1500
AY587563.1	AAACGGTGGA	AAAAATTGTG	TCCTTTTATT	TA-----	-----	-----		
AY587562.1	AAACGGTGGA	AGCAATTGTG	TCCTTTTATT	TA-----	-----	-----		
AY587565.1	AAACGGTGGA	AACAGTTGTG	TCCTTTTATT	TA-----	-----	-----		
DQ422946.1	AAACGGTGGA	AACAATTGAG	TCCTTTTATT	TAGAGATATT	TAGTGATATA	CCCATTCTTA		
DQ887488.1	AAACGGTGGA	AACAATTGAG	TCCTTTTATT	TAGAGATATT	TAGTGATATA	CCCATTCTTA		
EF101912.1	AAACGGTGGA	AACAATTGAG	TCCTTTTATT	TAGAGATATT	TAGTGATATA	CCCATTCTTA		
DQ897929.1	AAACGGTGGA	AACAATTGAG	TCCTTTTATT	TA-----	-----	-----		
FJ477418.1	AAACGGTGGA	AACAATTGTG	TCCTGTTATT	TA-----	-----	-----		
EF053406.1	AAACGGTGGA	AACAATTGAG	TCCTTTTATT	TA-----	-----	-----		
	1501							1560
AY587563.1	-----	-----	-----	-----	-----	-----		
AY587562.1	-----	-----	-----	-----	-----	-----		
AY587565.1	-----	-----	-----	-----	-----	-----		
DQ422946.1	ACACTAATAT	TATAGATAAA	CCCTCCATCA	TTGAATTTCT	ATAAACAAAC	CCAAAAAAAA		
DQ887488.1	ACACTAATAT	TATAGATAAA	CCCTCCATCA	TTGAATTTCT	ATAAACAAAC	CCAAAAAAAA		
EF101912.1	ACACTAATAT	TATAGATAAA	CCCTCCATCA	TTGAATTTCT	ATAAACAAAC	CCAAAAAAAA		
DQ897929.1	-----	-----	-----	-----	-----	-----		
FJ477418.1	-----	-----	-----	-----	-----	-----		
EF053406.1	-----	-----	-----	-----	-----	-----		
	1561							1620
AY587563.1	-----	-----	-----	-----	-----	-----		
AY587562.1	-----	-----	-----	-----	-----	-----		
AY587565.1	-----	-----	-----	-----	-----	-----		
DQ422946.1	CCCAAAAAAT	GACAACTGGC	CTTATTGAAT	TTAATATTGA	TTATTAAATT	ACTTTAATGC		
DQ887488.1	CCCAAAAAAT	GACAACTGGC	CTTATTGAAT	TTAATATTGA	TTATTAAATT	ACTTTAATGC		
EF101912.1	CCCAAAAAAT	GACAACTGGC	CTTATTGAAT	CTAATATTGA	TTATTAAATT	ACTTTAATGC		
DQ897929.1	-----	-----	-----	-----	-----	-----		
FJ477418.1	-----	-----	-----	-----	-----	-----		
EF053406.1	-----	-----	-----	-----	-----	-----		
	1621	SFB-INS-F		SFB-INS-R			1680	
AY587563.1	-----	-----	-----	-----	-----	-----		
AY587562.1	-----	-----	-----	-----	-----	-----		
AY587565.1	-----	-----	-----	-----	-----	-----		
DQ422946.1	CCTATTGAGT	GTTTTGGGTA	TTTTTATGAG	ATTTTGGGGT	TGGGCTTGTT	TTAAGAAATT		
DQ887488.1	CCTATTGAGT	GTTTTGGGTA	TTTTTATGAG	ATTTTGGGGT	TGGGCTTGTT	TTAAGAAATT		
EF101912.1	CCTATTGAGT	GTTTTGGGTA	TTTTTATGAG	ATTTTGGGGT	TGGGCTTGTT	TTAAGAAATT		
DQ897929.1	-----	-----	-----	-----	-----	-----		
FJ477418.1	-----	-----	-----	-----	-----	-----		
EF053406.1	-----	-----	-----	-----	-----	-----		
	1681							1740
AY587563.1	-----	-----	-----	-----	-----	-----		
AY587562.1	-----	-----	-----	-----	-----	-----		
AY587565.1	-----	-----	-----	-----	-----	-----		
DQ422946.1	TATGGTAGTT	TTGTAATTTT	TAAGAAGCTA	AAGCCTTTTT	GTTATATTGT	AAATGGGTTT		
DQ887488.1	TATGGTAGTT	TTGTAATTTT	TAAGAAGTTA	AAGCCTTTTT	GTTATATTGT	AAATGGGTTT		
EF101912.1	TATGGTAGTT	TTGTAATTTT	TAAGAAGTTA	AAGCCTTTTT	GTTATATTGT	AAATGGGTTT		
DQ897929.1	-----	-----	-----	-----	-----	-----		
FJ477418.1	-----	-----	-----	-----	-----	-----		
EF053406.1	-----	-----	-----	-----	-----	-----		
	1741							1800
AY587563.1	-----	-----	-----	-----	-----	-----		
AY587562.1	-----	-----	-----	-----	-----	-----		
AY587565.1	-----	-----	-----	-----	-----	-----		
DQ422946.1	TGGGTGTGTT	TATAAAGTTC	ATTTTCATATA	GGGTATTTTT	ATAATTTGGG	TCTTCATATT		
DQ887488.1	TGGGTGTGTT	TATAAAGTTC	ATTTTCATATA	GGGTATTTTT	ATAATTTGGG	TCTTCATATT		
EF101912.1	TGGGTGTGTT	TATAAAGTTC	ATTTTCATATA	GGGTATTTTT	ATAATTTGGG	TCTTCATATT		

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DQ897929.1 -----
FJ477418.1 -----
EF053406.1 -----
1801                                SFBcj-R                                1860
AY587563.1 -----TGA TCCTCTGGAT TATTGTTATC GTATAATTGG
AY587562.1 -----TCCTTT---T CATTATTATA GTCCAATCGG
AY587565.1 -----TC CATGGGT TTTTGTTATC GTATAACCGG
DQ422946.1 GGGTATATTA GTAAATCTCC CTTTTATTTA TCCTCCGGAT TATTATTATT GTACAACAGG
DQ887488.1 GGGTATATTA GTAAATCTCC CTTTTATTTA TCCTCCGGAT TATTATTATT GTACAACAGG
EF101912.1 GGGTATATTA GTAAATCTCC CTTTTATTTA TCCTCCGGAT TATTATTATT GTACAACAGG
DQ897929.1 -----TCCTCCGGAT TATTATTATT GTACAACAGG
FJ477418.1 -----TCCTGAAGGT AATTGTCGTC ATATTCTCGG
EF053406.1 -----TCCTCCGGAT TATTATTATT GTACAACAGG
1861                                SFB-OUT-R                                1920
AY587563.1 GATTGGTATA GATAATGAAC TCTTAATGGA AACAGAAGAT TTCCTTAGGG GCGTAGGATA
AY587562.1 TTTTAGTATA GATAATGAAC TCTTAGTGGA ACGAAAGAT TTCGCTAGGG GCATAGGGGA
AY587565.1 GATTAGTATA GATAATGAAC TCTTAATGGG AAGAAGAGAT TTCTTAAAGG GCGTAGCAGA
DQ422946.1 GATTAGTATG GATAACAAAA TCTTAATGCT AAGAGTAGAT GACATTAGAG GCATAAGAAA
DQ887488.1 GATTAGTATG GATAACAAAA TCTTAATGCT AAGAGTAGAT GACATTAGAG GCATAAGAAA
EF101912.1 GATTAGTATG GATAACAAAA TCTTAATGCT AAGAGTAGAT GACATTAGAG GCATAAGAAA
DQ897929.1 GATTAGTATG GATAACAAAA TCTTAATGCT AAGAGTAGAT GACATTAGAG GCATAAGAAA
FJ477418.1 AATTAGTATA GATAATGAAC TCTTAATGAC AGAAAGAGGT TTCGATACCG GCATAGCAGA
EF053406.1 GATTAGTATG GATAACAAAA TCTTAATGCT AAGAGTAGAT GACATTAGAG GCATAAGAAA
1921                                SFB-OUT-R                                1980
AY587563.1 TCTGCATTTG TGTAATAATG AATCCAAGCA AGTTCTTGAA ACAGGAATTG AGTTGGCTGT
AY587562.1 TCTGCATCTG TGCAACGACA AATCCAAGCA AGTCCTTGAA ACAGGAATTG AGTTAGCAGC
AY587565.1 TCTCTATTTG TGTAAGTACG AATCCAAGCA GGTTCTTGAA ACAGGAATTA AGTTGGGCAT
DQ422946.1 TCTGGATTTA TGTGATTACG AATCCAACCA AGTTCTTGAA ACAGGAATTG AGTTGGCCAC
DQ887488.1 TCTGGATTTA TGTGATTACG AATCCAACCA AGTTCTTGAA ACAGGAATTG AGTTGGCCAC
EF101912.1 TCTGGATTTA TGTGATTACG AATCCAACCA AGTTCTTGAA ACAGGAATTG AGTTGGCCAC
DQ897929.1 TCTGGATTTA TGTGATTACG AATCCAACCA AGTTCTTGAA ACAGGAATTG AGTTGGCCAC
FJ477418.1 TCTGTATCTG CGTAATTATG AATCCAAGCA AGTTCTTGAA ACAGGAATTA AGTTGGCCGT
EF053406.1 TCTGGATTTA TGTGATTACG AATCCAACCA AGTTCTTGAA ACAGGAATTG AGTTGGCCAC
1981                                SFB-OUT-R                                2040
AY587563.1 CATGAAATAT GGCGAAATCG AATTCTCTTA CACAATTACT TACATAGAAA GCTTGGTTTT
AY587562.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TGTAATTACT TACATAGAAA GTATGGTTTT
AY587565.1 CATGACATAT GGGGAAATCG AATTCTTGTT TTCATTACT TACATGGAGA GCTTGGTTTT
DQ422946.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TTCAATTACT TACGTAGAAA GTTTGGTTTT
DQ887488.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TTCAATTACT TACGTAGAAA CTTTACSCCTT
EF101912.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TTCAATTACT TACGTAGAAA GTTTGGTTTT
DQ897929.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TTCAATTACT TACGTAGAAA CTTTACCTTTT
FJ477418.1 CTTGAGATAT GGCGATATCG AATTCTTGTT TGCAATCACT TACATAGAAA GTTTGGTTTT
EF053406.1 CATGAAATAT GGCGAAATCG AATTCTTGTT TTCAATTACT TACGTAGAGA GTATGGTTTT
2041                                SFB-OUT-R                                2100
AY587563.1 TCTCGATAAA TATTAAATAG ATTTATAAAA TTTG--TCTC TTTTTTTTGG ----GATTT
AY587562.1 ACTCAATTAT TATTAAACAG AGGTATATAT AGTTAATTTT GTTTTCTGTC ----ATTTT
AY587565.1 ACTCAATTAA TTAGTAACAT ATATATAAAG T-----TTGG TTTTCTTCC ----GCTTT
DQ422946.1 ACTCAATAAT TATTAAACAG ATGTATAAAG TTTGTTGTTA TTTGTTTTTC TTTCGGTTTA
DQ887488.1 ACTCAATA
EF101912.1 ACTCAATA
DQ897929.1 ACTCAATT
FJ477418.1 ACTCAACAAT TGTTAA
EF053406.1 ACTCAATA

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ParMDO sequence alignment

KY429941	CGGATATCTA	ATATGTCGCT	AGACTCTGAA	TCAAGATCGC	ATATTCAAAT	ATGATTTTAC
KY429940	CGGATATCTA	ATATGTCGCT	AGACTCTGAA	TCAAGATCGC	ATATTCAAAT	ATGATTTTAC
KY499716						
	61					120
KY429941	TTAATCAATG	ATTCCGATTA	CACTCTAATA	ACACCACATA	CAAAATTGTT	TAACAAAAGG
KY429940	TTAATCAATG	ATTCCGATTA	CACTCTAATA	ACACCACATA	CAAAATTGTT	TAACAAAAGG
KY499716						
	121					180
KY429941	AAATTACTCA	GCATTTAAAA	AATATTTCCA	AGGTCTGCAT	TCTTATTGGA	GCTGGGGAGT
KY429940	AAATTACTCA	GCATTTAAAA	AATATTTCCA	AGGTCTGCAT	TCTTATTGGA	GCTGGGGAGT
KY499716						
	181					240
KY429941	GAATGCTTTA	AGATGTGAAG	TTGTATCATT	TTGTAGCTGC	TTCAAAAGCA	GCTAGGAAGA
KY429940	GAATGCTTTA	AGATGTGAAG	TTGTATCATT	TTGTAGCTGC	TTCAAAAGCA	GCTAGGAAGA
KY499716			TCATT	TTGTAGCTGC	TTCAAAAGCA	GCTAGGAAGA
	241					300
KY429941	CCTCAGTTGG	TTGGGCACCA	GCAAATTCTT	CCTTTCCATT	AATCTGCCAA	AAGAACCAAA
KY429940	CCTCAGTTGG	TTGGGCACCA	GCAAATTCTT	CCTTTCCATT	AATCTGCCAA	AAGAACCAAA
KY499716	CCTCAGTTGG	TTGGGCACCA	GCAAATTCTT	CCTTTCCATT	AATCTGCCAA	AAGAACCAAA
	301					360
KY429941	TGATTAGTAG	TGATGGATCT	ATTTGGCTAA	TCAAACAAAA	CCCAAATTTT	GAAAAGAAAA
KY429940	TGATTAGTAG	TGATGGATCT	ATTTGGCTAA	TCAAACAAAA	CCCAAATTTT	GAAAAGAAAA
KY499716	TGATTAGTAG	TGATGGATCT	ATTTGGCTAA	TCAAACAAAA	CCCAAATTTT	GAAAAGAAAA
	361					420
KY429941	AAAGAAGTGA	GTTTTTCATCA	CCCACCACAA	AATATGGGAT	TCCTTTTACT	TCTGAGTACT
KY429940	AAAGAAGTGA	GTTTTTCATCA	CCCACCACAA	AATATGGGAT	TCCTTTTACT	TCTGAGTACT
KY499716	AAAGAAGTGA	GTTTTTCATCA	CCCACCACAA	AATATGGGAT	TCCTTTTACT	TCTGAGTACT
	421					480
KY429941	TCTTAAGCTC	TTCCTTGACC	TTCATTGCAT	CATAATGAGC	GAGGTCAGTT	CCACTCAAAA
KY429940	TCTTAAGCTC	TTCCTTGACC	TTCATTGCAT	CATAATGAGC	GAGGTCAGTT	CCACTCAAAA
KY499716	TCTTAAGCTC	TTCCTTGACC	TTCATTGCAT	CATAATGAGC	GAGGTCAGTT	CCACTCAAAA
	481					540
KY429941	ATATATAGAA	GAAAGTTTGG	GGTTTGTTTT	ATTTCTGAGA	AAGGAATGAC	TGTTGCAGGA
KY429940	ATATATAGAA	GAAAGTTTGG	GGTTTGTTTT	ATTTCTGAGA	AAGGAATGAC	TGTTGCAGGA
KY499716	ATATATAGAA	GAAAGTTTGG	GGTTTGTTTT	ATTTCTGAGA	AAGGAATGAC	TGTTGCAGGA
	541					600
KY429941	TTCTAGTTTT	AATTTGGCCT	GTTTTGGAAC	CAAAGGATCA	TAACAAAAAT	TCCACAATCC
KY429940	TTCTAGTTTT	AATTTGGCCT	GTTTTGGAAC	CAAAGGATCA	TAACAAAAAT	TCCACAATCC
KY499716	TTCTAGTTTT	AATTTGGCCT	GTTTTGGAAC	CAAAGGATCA	TAACAAAAAT	TCCACAATCC
	601					660
KY429941	TCTATCTGGT	TTTTGCTGTC	CTTCAACATA	GCTTGGCCTG	GAAAATAATA	GGAACATGAA
KY429940	TCTATCTGGT	TTTTGCTGTC	CTTCAACATA	GCTTGGCCTG	GAAAATAATA	GGAACATGAA
KY499716	TCTATCTGGT	TTTTGCTGTC	CTTCAACATA	GCTTGGCCTG	GAAAATAATA	GGAACATGAA
	661					720
KY429941	GGAATTGGTG	AAGAACAGAC	CTCAGTGAGC	CCATTGTTGG	GGTCATCAAG	AAACTCTGCT
KY429940	GGAATTGGTG	AAGAACAGAC	CTCAGTGAGC	CCATTGTTGG	GGTCATCAAG	AAACTCTGCT
KY499716	GGAATTGGTG	AAGAACAGAC	CTCAGTGAGC	CCATTGTTGG	GGTCATCAAG	AAACTCTGCT
	721					780
KY429941	GCCCCTTCTA	TTTCAATCTT	TTCAGCACAT	TTCAGAAGAT	AATCCCTGCA	CCCAAATTGC
KY429940	GCCCCTTCTA	TTTCAATCTT	TTCAGCACAT	TTCAGAAGAT	AATCCCTGCA	CCCAAATTGC
KY499716	GCCCCTTCTA	TTTCAATCTT	TTCAGCACAT	TTCAGAAGAT	AATCCCTGCA	CCCAAATTGC
	781					840
KY429941	AAATGTTTTGT	GCCTCTTTTA	AGTTTTTAAAT	TAGATTAAGG	ATGTAAAAGT	ACTTAACCCA
KY429940	AAATGTTTTGT	GCCTCTTTTA	AGTTTTTAAAT	TAGATTAAGG	ATGTAAAAGT	ACTTAACCCA
KY499716	AAATGTTTTGT	GCCTCTTTTA	AGTTTTTAAAT	TAGATTAAGG	ATGTAAAAGT	ACTTAACCCA
	841					900
KY429941	GAACATATCT	TTGCATCCAT	AGCCATTGCT	TGAAAATTAA	GAATAGATTA	ATCAATCCTC

KY429940	GAACATATCT	TTGCATCCAT	AGCCATTGCT	TGAAAATTAA	GAATAGATTA	ATCAATCCTC	
KY499716	GAACATATCT	TTGCATCCAT	AGCCATTGCT	TGAAAATTAA	GAATAGATTA	ATCAATCCTC	
	901						960
KY429941	CCCATGTTAC	AAAACATAAC	AAGAGAATAA	ATCACCATAT	GCAATCTTAC	CTGTCCCCAA	
KY429940	CCCATGTTAC	AAAACATAAC	AAGAGAATAA	ATCACCATAT	GCAATCTTAC	CTGTCCCCAA	
KY499716	CCCATGTTAC	AAAACATAAC	AAGAGAATAA	ATCACCATAT	GCAATCTTAC	CTGTCCCCAA	
	961						1020
KY429941	TGAATCTCCC	ATCTGTGAAA	TATCCAAGAC	AGATCTCATC	CACTAGATCA	TGCTGCTTAT	
KY429940	TGAATCTCCC	ATCTGTGAAA	TATCCAAGAC	AGATCTCATC	CACTAGATCA	TGCTGCTTAT	
KY499716	TGAATCTCCC	ATCTGTGAAA	TATCCAAGAC	AGATCTCATC	CACTAGATCA	TGCTGCTTAT	
	1021						1080
KY429941	CATGATCCTG	TAGCCCAGCA	AAATATATAT	GGGAGATTCA	CTAATATACC	CAATATATGA	
KY429940	CATGATCCTG	TAGCCCAGCA	AAATATATA-	-----	-----	-----	
KY499716	CATGATCCTG	TAGCCCAGCA	AAATATATA-	-----	-----	-----	
	1081						1140
KY429941	GCCCAAATTA	TAAAAAACC	CTATATGAAA	TGGAATTTAT	AAATACACCC	AAAGCCCATT	
KY429940	-----	-----	-----	-----	-----	-----	
KY499716	-----	-----	-----	-----	-----	-----	
	1141						1200
KY429941	TATAACATAA	CAAAAAAGCT	TTTAACTTCT	TTTAAATTAC	AAAATTGCCA	TTGATTTCTT	
KY429940	-----	-----	-----	-----	-----	-----	
KY499716	-----	-----	-----	-----	-----	-----	
	1201						1260
KY429941	AAAACAAACC	CAACCCAAAA	TTTCATAAAA	AAACCCAAAA	CACTCAATAG	GGTATCAAAG	
KY429940	-----	-----	-----	-----	-----	-----	
KY499716	-----	-----	-----	-----	-----	-----	
	1261						1320
KY429941	TAATTTAATA	ATTAAAATTA	AATTTAATAG	TACAATTTGT	CATTTTTTTGG	GTTTTTTTTTG	
KY429940	-----	-----	-----	-----	-----	-----	
KY499716	-----	-----	-----	-----	-----	-----	
	1321						1380
KY429941	GGTATGTTTA	TAAAAATGAA	ATGATGTAGG	GTTTATTTAT	AGTTTTAGTG	CTAAGAATGG	
KY429940	-----	-----	-----	-----	-----	-----	
KY499716	-----	-----	-----	-----	-----	-----	
	1381						1440
KY429941	GTATATTACT	AAATATCTCA	ATATATAAGC	CTGTGACTCT	TAATAGTATT	TCCCCTGCAC	
KY429940	-----	-----	-----AGC	CTGTGACTCT	TAATAGTATT	TCCCCTGCAC	
KY499716	-----	-----	-----AGC	CTGTGACTCT	CAATAGTATT	TCCCCTGCAC	
	1441						1500
KY429941	ATGTTTTACA	CAATATTTGT	TAACACATTA	GACCACCACC	GAAAAAATCC	TTGTTTCCAT	
KY429940	ATGTTTTACA	CAATATTTGT	TAACACATTA	GACCACCACC	GAAAAAATCC	TTGTTTCCAT	
KY499716	ATGTTTTACA	CAATATTTGT	TAACACATTA	GACCACCACC	GAAAAAATCC	TTGTTTCCAT	
	1501						1560
KY429941	GCTTTCCCTC	TATGTGAAAT	TGTTTGTTTA	CACACGCAA	CACACAATCA	GCCTGAAAAA	
KY429940	GCTTTCCCTC	TATGTGAAAT	TGTTTGTTTA	CACACGCAA	CACACAATCA	GCCTGAAAAA	
KY499716	GCTTTCCCTC	TATGTGAAAT	TGTTTGTTTA	CACACGCAA	CACACAATCA	GCCTGAAAAA	
	1561						1620
KY429941	TGAAAGAAAG	AAAAATCAAT	GTCTGCACTT	ACGTGAGTCC	CTCGATCTTA	TAGGTCATGT	
KY429940	TGAAAGAAAG	AAAAATCAAT	GTCTGCACTT	ACGTGAGTCC	CTCGATCTTA	TAGGTCATGT	
KY499716	TGAAAGAAAG	AAAAATCAAT	GTCTGCACTT	ACGTGAGTCC	CTCGATCTTA	TAGGTCATGT	
	1621						1680
KY429941	CATGGTTTGA	AAAGATCTGC	AAATTGTGAA	AAGGAAACAT	AAGAATGAAT	ACCACTTAAA	
KY429940	CATGGTTTGA	AAAGATCTGC	AAATTGTGAA	AAGGAAACAT	AAGAATGAAT	ACCACTTAAA	
KY499716	CATGGTTTGA	AAAGATCTGC	AAATTGTGAA	AAGGAAACAT	AAGAATGAAT	ACCACTTAAA	
	1681						1740
KY429941	ACGAGCAACC	AAATCAAGGA	GAAAAACTTC	CCCATCCCCG	TTTCACTGCC	CCATCTCTCT	
KY429940	ACGAGCAACC	AAATCAAGGA	GAAAAACTTC	CCCATCCCCG	TTTCACTGCC	CCATCTCTCT	

KY499716	ACGAGCAACC	AAATCAAGGA	GAAAAACTTC	CCCATCCCCG	TTTCACTGCC	CCATCTCTCT	1741	1800
KY429941	ATTTCTCTCC	TCCTGTCACC	TATCAGATGA	GGAGATAGAT	AGAAAGAGGG	GGACGATGAA		
KY429940	ATTTCTCTCC	TCCTGTCACC	TATCAGATGA	GGAGATAGAT	AGAAAGAGGG	GGACGATGAA		
KY499716	ATTTCTCTCC	TCCTGTCACC	TATCAGATGA	GGAGATAGAT	AGAAAGAGGG	GGACGATGAA	1801	1860
KY429941	ACAGGGATGG	GGAAGTGTTT	TATGTATATA	TTACATACAT	CCGCCATACG	GGTCTGAAAC		
KY429940	ACAGGGATGG	GGAAGTGTTT	TATGTATATA	TTACATACAT	CCGCCATACG	GGTCTGAAAC		
KY499716	ACAGGGATGG	GGAAGTGTTT	TATGTATATA	TTACATACAT	CCGCCATACG	GGTCTGAAAC	1861	1920
KY429941	ACTTCAGCTA	CATCAGCGCC	CATCTTTGTA	TCATAAACT	CTTTCTTGTA	AATGCCTTCT		
KY429940	ACTTCAGCTA	CATCAGCGCC	CATCTTTGTA	TCATAAACT	CTTTCTTGTA	AATGCCTTCT		
KY499716	ACTTCAGCTA	CATCAGCGCC	CATCTTTGTA	TCATAAACT	CTTTCTTGTA	AATGCCTTCT	1921	1980
KY429941	TTAGGGACTT	CAGGATCAAT	TTGAAATGGA	TGCCATCTGA	GCTCAAACCTC	GTATCGATCA		
KY429940	TTAGGGACTT	CAGGATCAAT	TTGAAATGGA	TGCCATCTGA	GCTCAAACCTC	GTATCGATCA		
KY499716	TTAGGGACTT	CAGGATCAAT	TTGAAATGGA	TGCCATCTGA	GCTCAAACCTC	GTATCGATCA	1981	2040
KY429941	TTACCTTCCA	CTAGAGCTTT	GTCAAGGTTT	CTTTTGCCCA	CAAAGCACCA	TGGACACACA		
KY429940	TTACCTTCCA	CTAGAGCTTT	GTCAAGGTTT	CTTTTGCCCA	CAAAGCACCA	TGGACACACA		
KY499716	TTACCTTCCA	CTAGAGCTTT	GTCAAGGTTT	CTTTTGCCCA	CAAAGCACCA	TGGACACACA	2041	2100
KY429941	GTGTCTGCAA	TTATATCAAT	TTCCACAAGC	TTTTTCTTGA	TTCCAGCCAT	ATCTGCAACT		
KY429940	GTGTCTGCAA	TTATATCAAT	TTCCACAAGC	TTTTTCTTGA	TTCCAGCCAT	ATCTGCAACT		
KY499716	GTGTCTGCAA	TTATATCAAT	TTCCACAAGC	TTTTTCTTGA	TTCCAGCCAT		2101	2160
KY429941	GTATCCCGAC	AATATTTAAC	ACTCAAACCTA	GATGGTGAAA	TTGGCACTCA	AACAATTGCT		
KY429940	GTATCCCGAC	AATATTTAAC	ACTCAAACCTA	GATGGTGAAA	TTGGCACTCA	AACAATTGCT		
KY499716							2161	2220
KY429941	GCCAATATGG	CAACCATGAC	ATATATTAGA	GCCACCAAAT	TCATCAAATC	ATATATACAT		
KY429940	GCCAATATGG	CAACCATGAC	ATATATTAGA	GCCACCAAAT	TCATCAAATC	ATATATACAT		
KY499716							2221	2259
KY429941	TTATATCTAT	ATTAAGTGTT	TTAATGTCAA	CCCAACCGT				
KY429940	TTATATCTAT	ATTAAGTGTT	TTAATGTCAA	CCCAACCGT				
KY499716								

Primer design ParMDO

CATCTAGTTTGTAGTGTTAAATATTGTCGGGATACAGTTGCAGATATGGCTGGAATCAAGAAAAAGCTTGT
 GGAAATTGATATAATTGCAGACACTGTGTGTCCATGGTGCTTTGTGGGCAAAAGAAACCTTGACAAAGCT
 CTAGTGGAAGGTAATGATCGATACGAGTTTGTAGCTCAGATGGCATCCATTTCAAATTGATCCTGAAGTCC
 CTAAAGAAGGCATTTACAAGAAAGAGTTTTATGATACAAAGATGGGCGCTGATGTAGCTGAAGTGTTTCA
 GACCCGTATGGCGGATGTATGTAATATATACATAAAACACTTCCCTATCCTGTTTTATCGTCCCCCTCTT
 TCTATCTCCTCATCTGATAGGTGACAGGAGGAGAAAAATAGAGAGATGGGGAAGTTTTTCTCCTTGATTT
 GGTTGCTCGTTTTAAGTGGTATTCATTCTTATGTTTCCTTTTCACAATTTGCAGATCTTTTCAAACCATG
 ACATGACCTATAAGATCGAGGGACTCACGTAAGTGCAGACATTGATTTTTCTTTCTTTTCAATTTTCAGGC
 TGATTGTGTGTTTGCCTGTGTAAACAAACAATTTACATAGAGGGAAAGCATGGAAACAAGGATTTTTTC
 GGTGGTGGTCTAATGTGTTAAACAAATATTGTGTAAACATGTGCAGGGGAAATACTATTGAGAGTCACAG
 GCTTATATATTGAGATATTTAGTAATATAACCATTCCTTAGCACTAAACTATAAATAAACCCCTACATCAT
 TTCATTTTTATAAACATAACCCAAAAAAACCCAAAAAATGACAAATTGTACTATTAAATTTAATTTAAT
 TATTAAATTACTTTGATACCTATTGAGTGTTTTGGGTTTTTTTATGAAATTTGGGTTGGGTTTGT
 AAGAAATCAATGGCAATTTTGTAAATTTAAAGAAGTTAAAGCTTTTTGTATGTTATAAATGGGCTTT
 GGGTGTATTTATAAATTCATTTTCATATAGGGTTTTTTTATAAATTTGGGCTCATATATTGGGTATATTAG
 TGAATCTCCCATATATATTGCTGGGCTACAGGATCATGATAAGCAGCATGATCTAGTGGAATGAGATCT

GTCTTGGATATTTACAGATGGGAGATTCATTGGGGACAGGTAAGATTGCATATGGTGATTTATTCTCTT
GTTTAGTTTTGTAAACATGGGGAGGATTGATTAATCTATTCTTAAAATTCAAGCAATGGCTATGGATGCAA
AGATATGTTCTGGGTAAAGTACTTTTACATCCTTAATCTAATTTAAAACCTAAAAGAGGCACAAACATTT
GCAATTTGGGTGCAGGGATTATCTTCTGAAATGTGCTGAAAAGATTGAAATAGAAGGGGCAGCAGAGTTT
CTTGATGACCCCAACAATGGGCTCACTGAGGTCTGTTCTTCACCAATTCCTTCATGTTCTATTATTTTC
CAGGCCAAGCTATGTTGAAGGACAGCAAAAACCAGATAGAGGATTGTGGAATTTTTGTTATGATCCTTTG
GTTCCAAAACAGGCCAAAATTAAAACCTAGAATCCTGCAACAGTCATTCCTTTCTCAGAAATAAACCAAACC
CCAAACTTTCTTCTATATATTTTTGAATGGAAGTACCTCGCTCATTATGATGCAATGAAGGTCAAGGAA
GAGCTTAAGAAGTACTCAGAAGTAAAAGGAATCCCATATTTTGTGGTGGGTGATGAAAACCTCA