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		AsnI ~~~~~ AseI ~~~~~															
1	TAGTTATTAATA	GTAATCAATTAC	GGGGTCATTAGT	TCATAGCCCATA	TATGGAGTTCCG	CGTTACATAACT	TACGGTAAATGG										
	ATCAATAATTAT	CATTAGTTAATG	CCCCAGTAATCA	AGTATCGGGTAT	ATACCTCAAGGC	GCAATGTATTGA	ATGCCATTACC										
85	CCCGCTGGCTG	ACCGCCCAACGA	CCCCCGCCATT	GACGTCAATAAT	GACGTATGTTCC	CATAGTAACGCC	AATAGGGACTTT										
	GGGCGGACCGAC	TGGCGGGTTGCT	GGGGGCGGGTAA	CTGCAGTTATTA	CTGCATACAAGG	GTATCATTGCGG	TTATCCCTGAAA										
						NdeI ~~~~~											
169	CCATTGACGTCA	ATGGGTGGAGTA	TTTACGGTAAAC	TGCCCCACTTGGC	AGTACATCAAGT	GTATCATATGCC	AAGTACGCCCCC										
	GGTAACTGCAGT	TACCCACCTCAT	AAATGCCATTTG	ACGGGTGAACCG	TCATGTAGTTCA	CATAGTATACGG	TTCATGCGGGGG										
253	TATTGACGTCAA	TGACGGTAAATG	GCCCCGCTGGCA	TTATGCCCAGTA	CATGACCTTATG	GGACTTTCCTAC	TTGGCAGTACAT										
	ATAACTGCAGTT	ACTGCCATTTAC	CGGGCGGACCGT	AATACGGGTCAT	GTACTGGAATAC	CCTGAAAGGATG	AACCGTCATGTA										
		SnaBI ~~~~~															
337	CTACGTATTAGT	CATCGCTATTAC	CATGGTGATGCG	GTTTTGGCAGTA	CATCAATGGGCG	TGGATAGCGGTT	TGACTCACGGGG										
	GATGCATAATCA	GTAGCGATAATG	GTACCACTACGC	CAAAACCGTCAT	GTAAGTTACCCGC	ACCTATCGCCAA	ACTGAGTGCCCC										
421	ATTTCCAAGTCT	CCACCCCATTTGA	CGTCAATGGGAG	TTTGTTTTGGCA	CCAAAATCAACG	GGACTTTCCAA	ATGTCGTAACAA										
	TAAAGGTTTCAGA	GGTGGGGTAACT	GCAGTTACCCTC	AAACAAAACCGT	GGTTTTAGTTGC	CCTGAAAGGTTT	TACAGCATTTGTT										
505	CTCCGCCCCATT	GACGCAAATGGG	CGGTAGGCGTGT	ACGGTGGGAGGT	CTATATAAGCAG	AGCTGGTTTAGT	GAACCGTCAGAT										
	GAGGCGGGGTAA	CTGCGTTTACCC	GCCATCCGCACA	TGCCACCCTCCA	GATATATTCGTC	TCGACCAAATCA	CTTGGCAGTCTA										
		NheI ~~~~~	Agel ~~~~~														
+1				Met Val Ser Lys	Gly Glu Glu Leu	Phe Thr Gly Val	Val Pro Ile Leu	Val Glu Leu Asp									
589	CCGCTAGCGCTA	CCGGTCGCCACC	ATGGTGAGCAAG	GGCGAGGAGCTG	TTCACCGGGGTG	GTGCCCATCCTG	GTCGAGCTGGAC										
	GGCGATCGCGAT	GGCCAGCGGTGG	TACCACTCGTTT	CCGCTCCTCGAC	AAGTGGCCCCAC	CACGGGTAGGAC	CAGCTCGACCTG										
+1	Gly Asp Val Asn	Gly His Lys Phe	Ser Val Ser Gly	Glu Gly Glu Gly	Asp Ala Thr Tyr	Gly Lys Leu Thr	Leu Lys Phe Ile										
673	GGCGACGTAAAC	GGCCACAAGTTC	AGCGTGTCGGGC	GAGGGCGAGGGC	GATGCCACCTAC	GGCAAGCTGACC	CTGAAGTTCATC										
	CCGCTGCATTTG	CCGGTGTTCAAG	TCGCACAGGCCG	CTCCCGCTCCCG	CTACGGTGGATG	CCGTTTCGACTGG	GACTTCAAGTAG										
+1	Cys Thr Thr Gly	Lys Leu Pro Val	Pro Trp Pro Thr	Leu Val Thr Thr	Leu Thr Tyr Gly	Val Gln Cys Phe	Ser Arg Tyr Pro										
757	TGCACCACCGGC	AAGCTGCCCCGTG	CCCTGGCCCCACC	CTCGTGACCACC	CTGACCTACGGC	GTGCAGTGCTTC	AGCCGCTACCCC										
	ACGTGGTGGCCG	TTCGACGGGCAC	GGGACCGGGTGG	GAGCACTGGTGG	GACTGGATGCCG	CACGTCACGAAG	TGGGCGATGGGG										
+1	Asp His Met Lys	Gln His Asp Phe	Phe Lys Ser Ala	Met Pro Glu Gly	Tyr Val Gln Glu	Arg Thr Ile Phe	Phe Lys Asp Asp										
841	GACCACATGAAG	CAGCACGACTTC	TTCAAGTCCGCC	ATGCCCCGAAGGC	TACGTCCAGGAG	CGCACCATCTTC	TTCAAGGACGAC										
	CTGGTGTAATTTC	GTCGTGCTGAAG	AAGTTCAGGCGG	TACGGGCTTCCG	ATGCAGGTCTTC	GCGTGGTAGAAG	AAGTTCCTGCTG										
+1	Gly Asn Tyr Lys	Thr Arg Ala Glu	Val Lys Phe Glu	Gly Asp Thr Leu	Val Asn Arg Ile	Glu Leu Lys Gly	Ile Asp Phe Lys										
925	GGCAACTACAAG	ACCGCGCCGAG	GTGAAGTTCGAG	GGCGACACCCTG	GTGAACCGCATC	GAGCTGAAGGGC	ATCGACTTCAAG										
	CCGTTGATGTTT	TGGGCGCGGCTC	CACTTCAAGCTC	CCGCTGTGGGAC	CAGTTGGCGTAG	CTCGACTTCCCG	TAGCTGAAGTTC										
+1	Glu Asp Gly Asn	Ile Leu Gly His	Lys Leu Glu Tyr	Asn Tyr Asn Ser	His Asn Val Tyr	Ile Met Ala Asp	Lys Gln Lys Asn										
1009	GAGGACGGCAAC	ATCCTGGGGCAC	AAGCTGGAGTAC	AACTACAACAGC	CACAACGTCTAT	ATCATGGCCGAC	AAGCAGAAGAAC										
	CTCCTGCCGTTG	TAGGACCCCGTG	TTCGACCTCATG	TTGATGTTGTGCG	GTGTTGCAGATA	TAGTACCGGCTG	TTCGTCTTCTTG										
+1	Gly Ile Lys Val	Asn Phe Lys Ile	Arg His Asn Ile	Glu Asp Gly Ser	Val Gln Leu Ala	Asp His Tyr Gln	Gln Asn Thr Pro										
1093	GGCATCAAGGTG	AACTTCAAGATC	CGCCACAACATC	GAGGACGGCAGC	GTGCAGCTCGCC	GACCACTACCAG	CAGAACACCCCC										
	CCGTAGTTCCAC	TTGAAGTTCTAG	GCGGTGTTGTAG	CTCCTGCCGTCG	CACGTCGAGCGG	CTGGTGATGGTC	GTCTTGTGGGGG										

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+1	Ile	Gly	Asp	Gly	Pro	Val	Leu	Leu	Pro	Asp	Asn	His	Tyr	Leu	Ser	Thr	Gln	Ser	Ala	Leu	Ser	Lys	Asp	Pro	Asn	Glu	Lys	Arg
1177	ATCGGCGACGGC	CCCGTGCTGCTG	CCCGACAACCAC	TACCTGAGCACC	CAGTCCGCCCTG	AGCAAAGACCCC	AACGAGAAGCGC																					
	TAGCCGCTGCCG	GGGCACGACGAC	GGGCTGTTGGTG	ATGGACTCGTGG	GTCAGGCGGGAC	TCGTTTCTGGGG	TTGCTCTTCGCG																					
+1	Asp	His	Met	Val	Leu	Leu	Glu	Phe	Val	Thr	Ala	Ala	Gly	Ile	Thr	Leu	Gly	Met	Asp	Glu	Leu	Tyr	Lys	Ser	Gly	Leu	Arg	Ser
1261	GATCACATGGTC	CTGCTGGAGTTC	GTGACCGCCGCC	GGGATCACTCTC	GGCATGGACGAG	CTGTACAAGTCC	GGACTCAGATCT																					
	CTAGTGTACCAG	GACGACCTCAAG	CACTGGCGGCGG	CCCTAGTGAGAG	CCGTACCTGCTC	GACATGTTTCAGG	CCTGAGTCTAGA																					
+1	Arg	Ala	Gln	Ala	Ser	Asn	Ser	Ala	Val	Asp	Gly	Thr	Met	Glu	Val	Gln	Leu	Gly	Leu	Gly	Arg	Val	Tyr	Pro	Arg	Pro	Pro	Ser
1345	CGAGCTCAAGCT	TCGAATTCTGCA	GTCGACGGTACC	ATGGAAGTGCAG	TTAGGGCTGGGA	AGGGTCTACCCT	CGGCCGCCGTCC																					
	GCTCGAGTTCGA	AGCTTAAGACGT	CAGCTGCCATGG	TACCTTCACGTC	AATCCCCGACCCT	TCCCAGATGGGA	GCCGGCGGCAGG																					
+1	Lys	Thr	Tyr	Arg	Gly	Ala	Phe	Gln	Asn	Leu	Phe	Gln	Ser	Val	Arg	Glu	Val	Ile	Gln	Asn	Pro	Gly	Pro	Arg	His	Pro	Glu	Ala
1429	AAGACCTACCGA	GGAGCTTTCCAG	AATCTGTTCCAG	AGCGTGCGCGAA	GTGATCCAGAAC	CCGGGCCCCCAGG	CACCCAGAGGCC																					
	TTCTGGATGGCT	CCTCGAAAGGTC	TTAGACAAGGTC	TCGCACGCGCTT	CACTAGGTCTTG	GGCCCCGGGGTCC	GTGGGTCTCCGG																					
+1	Ala	Ser	Ala	Ala	Pro	Pro	Gly	Ala	Ser	Leu	Leu	Leu	Leu	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
1513	GCGAGCGCAGCA	CCTCCCGGCGCC	AGTTTGCTGCTG	CTGCAGCAGCAG	CAGCAGCAGCAG	CAGCAGCAGCAG	CAGCAGCAGCAG																					
	CGCTCGCGTCGT	GGAGGGCCGCGG	TCAAACGACGAC	GACGTCGTCGTC	GTCGTCGTCGTC	GTCGTCGTCGTC	GTCGTCGTCGTC																					
+1	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Glu	Thr	Ser	Pro	Arg	Gln	Gln	Gln	Gln	Gln	Gln	Gly	Glu	Asp	Gly	Ser	Pro	Gln	Ala	His	Arg
1597	CAGCAGCAGCAG	CAGCAGCAAGAG	ACTAGCCCCAGG	CAGCAGCAGCAG	CAGCAGGGTGAG	GATGGTTTCTCCC	CAAGCCCATCGT																					
	GTCGTCGTCGTC	GTCGTCGTTCTC	TGATCGGGGTCC	GTCGTCGTCGTC	GTCGTCCCACTC	CTACCAAGAGGG	GTTGCGGTAGCA																					
+1	Arg	Gly	Pro	Thr	Gly	Tyr	Leu	Val	Leu	Asp	Glu	Glu	Gln	Gln	Pro	Ser	Gln	Pro	Gln	Ser	Ala	Leu	Glu	Cys	His	Pro	Glu	Arg
1681	AGAGGCCCCACA	GGCTACCTGGTC	CTGGATGAGGAA	CAGCAACCTTCA	CAGCCGCGAGTCG	GCCCTGGAGTGC	CACCCCGAGAGA																					
	TCTCCGGGGTGT	CCGATGGACCAG	GACCTACTCCTT	GTCGTTGGAAGT	GTCGGCGTCAGC	CGGGACCTCACG	GTGGGGCTCTCT																					
+1	Gly	Cys	Val	Pro	Glu	Pro	Gly	Ala	Ala	Val	Ala	Ala	Ser	Lys	Gly	Leu	Pro	Gln	Gln	Leu	Pro	Ala	Pro	Pro	Asp	Glu	Asp	Asp
1765	GGTTGCGTCCCA	GAGCCTGGAGCC	GCCGTGGCCGCC	AGCAAGGGGCTG	CCGCAGCAGCTG	CCAGCACCTCCG	GACGAGGATGAC																					
	CCAACGCAGGGT	CTCGGACCTCGG	CGGCACCGGCGG	TCGTTCCCCGAC	GGCGTCGTCGAC	GGTCGTGGAGGC	CTGCTCCTACTG																					
+1	Ser	Ala	Ala	Pro	Ser	Thr	Leu	Ser	Leu	Leu	Gly	Pro	Thr	Phe	Pro	Gly	Leu	Ser	Ser	Cys	Ser	Ala	Asp	Leu	Lys	Asp	Ile	Leu
1849	TCAGCTGCCCCA	TCCACGTTGTCC	CTGCTGGGCCCC	ACTTTCCCCGGC	TAAAGCAGCTGC	TCCGCTGACCTT	AAAGACATCCTG																					
	AGTCGACGGGGT	AGGTGCAACAGG	GACGACCCGGGG	TGAAAGGGGCGG	AATTCGTCGACG	AGGCGACTGGAA	TTTCTGTAGGAC																					
+1	Ser	Glu	Ala	Ser	Thr	Met	Gln	Leu	Leu	Gln	Gln	Gln	Gln	Gln	Glu	Ala	Val	Ser	Glu	Gly	Ser	Ser	Ser	Gly	Arg	Ala	Arg	Glu
1933	AGCGAGGCCAGC	ACCATGCAACTC	CTTCAGCAACAG	CAGCAGGAAGCA	GTATCCGAAGGC	AGCAGCAGCGGG	AGAGCGAGGGAG																					
	TCGCTCCGGTCG	TGGTACGTTGAG	GAAGTCGTTGTC	GTCGTCCTTCGT	CATAGGCTTCCG	TCGTCGTCGCCC	TCTCGCTCCCTC																					

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	+1	Ala	Ser	Gly	Ala	Pro	Thr	Ser	Ser	Lys	Asp	Asn	Tyr	Leu	Gly	Gly	Thr	Ser	Thr	Ile	Ser	Asp	Asn	Ala	Lys	Glu	Leu	Cys	Lys
2017		GCCTCGGGGGCT	CCCAC TTCCTCC				AAGGACAATTAC				TTAGGGGGCACT				TCGACCATT TCT				GACAACGCCAAG				GAGTTGTGTAAG						
		CGGAGCCCCCGA	GGGTGAAGGAGG				TTCCTGTTAATG				AATCCCCCGTGA				AGCTGGTAAAGA				CTGTTGCGGTTC				CTCAACACATTC						
	+1	Ala	Val	Ser	Val	Ser	Met	Gly	Leu	Gly	Val	Glu	Ala	Leu	Glu	His	Leu	Ser	Pro	Gly	Glu	Gln	Leu	Arg	Gly	Asp	Cys	Met	Tyr
2101		GCAGTGTTCGGTG	TCCATGGGCCTG				GGTGTGGAGGCG				TTGGAGCATCTG				AGTCCAGGGGAA				CAGCTTCGGGGG				GATTGCATGTAC						
		CGTCACAGCCAC	AGGTACCCGGAC				CCACACCTCCGC				AACCTCGTAGAC				TCAGGTCCCCTT				GTCGAAGCCCCC				CTAACGTACATG						
	+1	Ala	Pro	Leu	Leu	Gly	Val	Pro	Pro	Ala	Val	Arg	Pro	Thr	Pro	Cys	Ala	Pro	Leu	Ala	Glu	Cys	Lys	Gly	Ser	Leu	Leu	Asp	Asp
2185		GCCCCACTTTTG	GGAGTTCCACCC				GCTGTGCGTCCC				ACTCCTTGTGCC				CCATTGGCCGAA				TGCAAAGGTTCT				CTGCTAGACGAC						
		CGGGGTGAAAAC	CCTCAAGGTGGG				CGACACGCAGGG				TGAGGAACACGG				GGTAACCGGCTT				ACGTTTCCAAGA				GACGATCTGCTG						
	+1	Ser	Ala	Gly	Lys	Ser	Thr	Glu	Asp	Thr	Ala	Glu	Tyr	Ser	Pro	Phe	Lys	Gly	Gly	Tyr	Thr	Lys	Gly	Leu	Glu	Gly	Glu	Ser	Leu
2269		AGCGCAGGCAAG	AGCACTGAAGAT				ACTGCTGAGTAT				TCCCCTTTCAAG				GGAGGTTACACC				AAAGGGCTAGAA				GGCGAGAGCCTA						
		TCGCGTCCGTTC	TCGTGACTTCTA				TGACGACTCATA				AGGGGAAAGTTC				CCTCCAATGTGG				TTTCCCGATCTT				CCGCTCTCGGAT						
	+1	Gly	Cys	Ser	Gly	Ser	Ala	Ala	Ala	Gly	Ser	Ser	Gly	Thr	Leu	Glu	Leu	Pro	Ser	Thr	Leu	Ser	Leu	Tyr	Lys	Ser	Gly	Ala	Leu
2353		GGCTGCTCTGGC	AGCGCTGCAGCA				GGGAGCTCCGGG				ACACTTGAACTG				CCGTCTACCCTG				TCTCTCTACAAG				TCCGGAGCACTG						
		CCGACGAGACCG	TCGCGACGTCGT				CCCTCGAGGCC				TGTGAACTTGAC				GGCAGATGGGAC				AGAGAGATGTTC				AGGCCTCGTGAC						
		<div>NruI</div>																											
	+1	Asp	Glu	Ala	Ala	Ala	Tyr	Gln	Ser	Arg	Asp	Tyr	Tyr	Asn	Phe	Pro	Leu	Ala	Leu	Ala	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro
2437		GACGAGGCAGCT	GCGTACCAGAGT				CGCGACTACTAC				AACTTTCCACTG				GCTCTGGCCGGA				CCGCCGCCCCCT				CCGCCGCCTCCC						
		CTGCTCCGTCGA	CGCATGGTCTCA				GCGCTGATGATG				TTGAAAGGTGAC				CGAGACCGGCCT				GGCGGCGGGGGA				GGCGGCGGAGGG						
	+1	His	Pro	His	Ala	Arg	Ile	Lys	Leu	Glu	Asn	Pro	Leu	Asp	Tyr	Gly	Ser	Ala	Trp	Ala	Ala	Ala	Ala	Gln	Cys	Arg	Tyr	Gly	
2521		CATCCCCACGCT	CGCATCAAGCTG				GAGAACCCGCTG				GACTACGGCAGC				GCCTGGGCGGCT				GCGGCGGCAG				TGCCGCTATGGG						
		GTAGGGGTGCGA	GCGTAGTTCGAC				CTCTTGGGCGAC				CTGATGCCGTCG				CGGACCCGCCGA				CGCCGCCGCGTC				ACGGCGATACCC						
		<div>BstEII</div>																											
	+1	Asp	Leu	Ala	Ser	Leu	His	Gly	Ala	Gly	Ala	Ala	Gly	Pro	Gly	Ser	Gly	Ser	Pro	Ser	Ala	Ala	Ala	Ser	Ser	Ser	Trp	His	Thr
2605		GACCTGGCGAGC	CTGCATGGCGCG				GGTGCAGCGGGA				CCCGGTTCTGGG				TCACCCTCAGCC				GCCGCTTCCTCA				TCCTGGCACACT						
		CTGGACCGCTCG	GACGTACCGCGC				CCACGTCGCCCT				GGGCCAAGACCC				AGTGGGAGTCGG				CGGCGAAGGAGT				AGGACCGTGTGA						
	+1	Leu	Phe	Thr	Ala	Glu	Glu	Gly	Gln	Leu	Tyr	Gly	Pro	Cys	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly
2689		CTCTTCACAGCC	GAAGAAGGCCAG				TTGTATGGACCG				TGTGGTGGTGGT				GGGGGTGGTGGC				GGCGGCGGCGGC				GGCGGCGGCGGC						
		GAGAAGTGTCGG	CTTCTTCCGGTC				AACATACCTGGC				ACACCACCACCA				CCCCACCACCG				CCGCGCGCCGCC				CCGCGCGCCGCC						
	+1	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Glu	Ala	Gly	Ala	Val	Ala	Pro	Tyr	Gly	Tyr	Thr	Arg	Pro	Pro	Gln	Gly	Leu	Ala	Gly	Gln
2773		GGCGGCGGCGGC	GGCGGCGGCGGC				GAGGCGGGAGCT				GTAGCCCCCTAC				GGCTACACTCGG				CCCCCTCAGGGG				CTGGCGGGCCAG						
		CCGCGCGCGCCG	CCGCGCGCGCCG				CTCCGCCCTCGA				CATCGGGGGATG				CCGATGTGAGCC				GGGGGAGTCCCC				GACCGCCCGGTC						
		<div>AleI</div>																											
	+1	Glu	Ser	Asp	Phe	Thr	Ala	Pro	Asp	Val	Trp	Tyr	Pro	Gly	Gly	Met	Val	Ser	Arg	Val	Pro	Tyr	Pro	Ser	Pro	Thr	Cys	Val	Lys
2857		GAAAGCGACTTC	ACCGCACCTGAT				GTGTGGTACCCT				GGCGGCATGGTG				AGCAGAGTGCCC				TATCCCAGTCCC				ACTTGTGTCAAA						
		CTTTCGCTGAAG	TGGCGTGGACTA				CACACCATGGGA				CCGCCGTACCAC				TCGTCTCACGGG				ATAGGGTCAGGG				TGAACACAGTTT						
	+1	Ser	Glu	Met	Gly	Pro	Trp	Met	Asp	Ser	Tyr	Ser	Gly	Pro	Tyr	Gly	Asp	Met	Arg	Leu	Glu	Thr	Ala	Arg	Asp	His	Val	Leu	Pro
2941		AGCGAAATGGGC	CCCTGGATGGAT				AGCTACTCCGGA				CCTTACGGGGAC				ATGCGTTTGGAG				ACTGCCAGGGAC				CATGTTTTGCCC						
		TCGCTTTACCCG	GGGACCTACCTA				TCGATGAGGCCT				GGAATGCCCTTG				TACGCAAACCTC				TGACGGTCCCTG				GTACAAAACGGG						

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		Ile	Asp	Tyr	Tyr	Phe	Pro	Pro	Gln	Lys	Thr	Cys	Leu	Ile	Cys	Gly	Asp	Glu	Ala	Ser	Gly	Cys	His	Tyr	Gly	Ala	Leu	Thr	Cys	
	3025	ATTGACTATTAC	TTTCCACCCCAG				AAGACCTGCCTG				ATCTGTGGAGAT				GAAGCTTCTGGG				TGTCACTATGGA				GCTCTCACATGT							
		TAAGTGATAATG	AAAGGTGGGGTC				TTCTGGACGGAC				TAGACACCTCTA				CTTCGAAGACCC				ACAGTGATACCT				CGAGAGTGTACA							
	+1	Gly	Ser	Cys	Lys	Val	Phe	Phe	Lys	Arg	Ala	Ala	Glu	Gly	Lys	Gln	Lys	Tyr	Leu	Cys	Ala	Ser	Arg	Asn	Asp	Cys	Thr	Ile	Asp	
	3109	GGAAAGCTGCAAG	GTCTTCTTTCAAA				AGAGCCGCTGAA				GGGAAACAGAAG				TACCTGTGCGCC				AGCAGAAATGAT				TGCACTATTGAT							
		CCTTCGACGTTT	CAGAAGAAGTTT				TCTCGGCGACTT				CCCTTTGTCTTC				ATGGACACGCGG				TCGTCTTTACTA				ACGTGATAACTA							
	+1	Lys	Phe	Arg	Arg	Lys	Asn	Cys	Pro	Ser	Cys	Arg	Leu	Arg	Lys	Cys	Tyr	Glu	Ala	Gly	Met	Thr	Leu	Gly	Glu	Lys	Phe	Arg	Val	
	3193	AAATTCCGAAGG	AAAAATTGTCCA				TCTTGTCGTCTT				CGGAAATGTTAT				GAAGCAGGGATG				ACTCTGGGAGAA				AAATTCCGGGGTT							
		TTTAAGGCTTCC	TTTTTAACAGGT				AGAACAGCAGAA				GCCTTTACAATA				CTTCGTCCCTAC				TGAGACCCCTCT				TTTAAGGCCCAA							
														XbaI				BclI												
	+1	Gly	Asn	Cys	Lys	His	Leu	Lys	Met	Thr	Arg	Pro	***																	
	3277	GGCAATTGCAAG	CATCTCAAAATG				ACCAGACCC				TGA				TCTAGATAACTG				ATCATAATCAGC				CATACCACATTT				GTAGAGGTTTTTA			
		CCGTTAACGTTT	GTAGAGTTTTAC				TGGTCTGGG				ACT				AGATCTATTGAC				TAGTATTAGTCG				GTATGGTGTAAG				CATCTCCAAAAT			
														XbaI dm																
	3361	CTTGCTTTAAAA	AACCTCCCACAC				CTCCCCCTGAAC				CTGAAACATAAA				ATGAATGCAATT				GTTGTTGTTAAC				TTGTTTATTGCA							
		GAACGAAATTTT	TTGGAGGGGTGT				GAGGGGGGACTT				GACTTTGTATTT				TACTTACGTAA				CAACAACAATTG				AACAAATAACGT							
	3445	GCTTATAATGGT	TACAAATAAAGC				AATAGCATCACA				AATTTACAAAT				AAAGCATTTTTT				TCACTGCATTCT				AGTTGTGGTTTG							
		CGAATATTACCA	ATGTTTATTTTC				TTATCGTAGTGT				TTAAAGTGTTTA				TTTCGTAAAAAA				AGTGACGTAAGA				TCAACACCAAAC							
									MluI																					
	3529	TCCAAACTCATC	AATGTATCTTAA				CGCGTAAATGT				AAGCGTTAATAT				TTTGTTAAATTT				CGCGTTAAATTT				TTGTTAAATCAG							
		AGGTTTGAGTAG	TTACATAGAATT				GCGCATTTAACA				TTCGCAATTATA				AAACAATTTTAA				GCGCAATTTAAA				AACAATTTAGTC							
	3613	CTCATTTTTTTAA	CCAATAGGCCGA				AATCGGCCAAAAT				CCCTTATAAATC				AAAAGAATAGAC				CGAGATAGGGTT				GAGTGTGTGTCC							
		GAGTAAAAAATT	GGTTATCCGGCT				TTAGCCGTTTTTA				GGGAATATTTAG				TTTTCTTATCTG				GCTCTATCCCAA				CTCACAACAAGG							
																													DrallI	
	3697	AGTTTGGAACAA	GAGTCCACTATT				AAAGAACGTGGA				CTCCAACGTCAA				AGGGCGAAAAAC				CGTCTATCAGGG				CGATGGCCCACT							
		TCAAACCTTGTT	CTCAGGTGATAA				TTTCTTGCACCT				GAGGTTGCAGTT				TCCCCTTTTTTG				GCAGATAGTCCC				GCTACCGGGTGA							
	3781	ACGTGAACCATC	ACCCTAATCAAG				TTTTTTTGGGGTC				GAGGTGCCGTAA				AGCACTAAATCG				GAACCCCTAAAGG				GAGCCCCCGATT							
		TGCACTTGGTAG	TGGGATTAGTTC				AAAAAACCCCAG				CTCCACGGCATT				TCGTGATTTAGC				CTTGGGATTTCC				CTCGGGGGCTAA							
	3865	TAGAGCTTGACG	GGGAAAGCCGGC				GAACGTGGCGAG				AAAGGAAGGGAA				GAAAGCGAAAGG				AGCGGGCGCTAG				GGCGCTGGCAAG							
		ATCTCGAACTGC	CCCTTTCGGCCG				CTTGACACGCTC				TTTCCTTCCCTT				CTTTCGCTTTCC				TCGCCC CGGATC				CCCGACCGTTT							
	3949	TGTAGCGGTCAC	GCTGCGCGTAAC				CACCACACCCGC				CGCGCTTAATGC				GCCCGTACAGGG				CGCGTCAGGTGG				CACTTTTCGGGG							
		ACATCGCGCATG	CGACGCGCATTT				GTGGTGTGGGCG				GCGCGAATTACG				CGCGGATGTCCC				GCGCAGTCCACC				GTGAAAAGCCCC							
	4033	AAATGTGCGCGG	AACCCTATTTTG				TTTATTTTTTCTA				AATACATTCAA				TATGTATCCGCT				CATGAGACAATA				ACCCTGATAAAT							
		TTTACACGCGCC	TTGGGGATAAAC				AAATAAAAAAGAT				TTATGTAAGTTT				ATACATAGGCGA				GTACTCTGTTAT				TGGGACTATTTA							
	4117	GCTTCAATAATA	TTGAAAAAGGAA				GAGTCCTGAGGC				GGAAAGAACCAG				CTGTGGAATGTG				TGTCAGTTAGGG				TGTGGAAAGTCC							
		CGAAGTTATTAT	AACTTTTTTCCTT				CTCAGGACTCCG				CCTTTCTTGGTCT				GACACCTTACAC				ACAGTCAATCCC				ACACCTTTCAGG							
	4201	CCAGGCTCCCCA	GCAGGCAGAAGT				ATGCAAAGCATG				CATCTCAATTAG				TCAGCAACCAGG				TGTGGAAAAGTCC				CCAGGCTCCCCA							
		GGTCCGAGGGGT	CGTCCGTCTTCA				TACGTTTTCGTAC				GTAGAGTTAATC				AGTCGTTGGTCC				ACACCTTTCAGG				GGTCCGAGGGGT							

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4285	GCAGGCAGAAGT CGTCCGTCTTCA	ATGCAAAGCATG TACGTTTTCGTAC	CATCTCAATTAG GTAGAGTTAATC	TCAGCAACCATA AGTCGTTGGTAT	GTCCCGCCCCCTA CAGGGCGGGGAT	ACTCCGCCCATC TGAGGCGGGTAG	CCGCCCCCTAACT GGCGGGGATTGA
4369	CCGCCCAGTTCC GGCGGGTCAAGG	GCCCATTCTCCG CGGGTAAGAGGC	CCCCATGGCTGA GGGGTACCGACT	CTAATTTTTTTTT GATTAATAAAAAA	ATTTATGCAGAG TAAATACGTCTC	GCCGAGGCCGCC CGGCTCCGGCGG	TGGGCTCTGAG AGCCGGAGACTC
4453	CTATTCCAGAAG GATAAGGTCTTC	TAGTGAGGAGGC ATCACTCCTCCG	TTTTTTGGAGGC AAAAAACCTCCG	CTAGGCTTTTGC GATCCGAAAACG	AAAGATCGATCA TTTCTAGCTAGT	AGAGACAGGATG TCTCTGTCTTAC	AGGATCGTTTCG TCCTAGCAAAGC
4537	CATGATTGAACA GTACTAACTTGT	AGATGGATTGCA TCTACCTAACGT	CGCAGGTTCTCC GCGTCCAAGAGG	GGCCGCTTGGGT CCGGCGAACCCT	GGAGAGGCTATT CCTCTCCGATAA	CGGCTATGACTG GCCGATACTGAC	GGCACAACAGAC CCGTGTTGTCTG
4621	AATCGGCTGCTC TTAGCCGACGAG	TGATGCCGCCGT ACTACGGCGGCA	GTTCCGGCTGTC CAAGGCCGACAG	AGCGCAGGGGCG TCGCGTCCCCGC	CCCGGTTCTTTT GGGCCAAGAAAA	TGTCAAGACCGA ACAGTTCTGGCT	CCTGTCCGGTGC GGACAGGCCACG
4705	CCTGAATGAACT GGACTTACTTGA	GCAAGACGAGGC CGTTCGTCTCCG	AGCGCGGCTATC TCGCGCCGATAG	GTGGCTGGCCAC CACCGACCGGTG	GACGGGCGTTCC CTGCCCCGAAGG	TTGCGCAGCTGT AACGCGTCGACA	GCTCGACGTTGT CGAGCTGCAACA
4789	CACTGAAGCGGG GTGACTTCGCCC	AAGGGACTGGCT TTCCCTGACCGA	GCTATTGGGCGA CGATAACCCGCT	AGTGCCGGGGCA TCACGGCCCCGT	GGATCTCCTGTC CCTAGAGGACAG	ATCTCACCTTGC TAGAGTGGAAACG	TCCTGCCGAGAA AGGACGGCTCTT
4873	AGTATCCATCAT TCATAGGTAGTA	GGCTGATGCAAT CCGACTACGTTA	GCGGCGGCTGCA CGCCGCCGACGT	TACGCTTGATCC ATGCGAACTAGG	GGCTACCTGCCC CCGATGGACGGG	ATTCGACCACCA TAAGCTGGTGGT	AGCGAAACATCG TCGCTTTGTAGC
4957	CATCGAGCGAGC GTAGCTCGCTCG	ACGTACTCGGAT TGCATGAGCCTA	GGAAGCCGGTCT CCTTCGGCCAGA	TGTCGATCAGGA ACAGCTAGTCCT	TGATCTGGACGA ACTAGACCTGCT	AGAGCATCAGGG TCTCGTAGTCCC	GCTCGCGCCAGC CGAGCGGGTCG
5041	CGAACTGTTTCG GCTTGACAAGCG	CAGGCTCAAGGC GTCCGAGTTCCG	GAGCATGCCCGA CTCGTACGGGCT	CGGCGAGGATCT GCCGCTCCTAGA	CGTCGTGACCCA GCAGCACTGGGT	TGGCGATGCCTG ACCGCTACGGAC	CTTGCCGAATAT GAACGGCTTATA
5125	CATGGTGGAAAA GTACCACCTTTT	TGGCCGCTTTTC ACCGGCGAAAAG	TGGATTTCATGA ACCTAAGTAGCT	CTGTGGCCGGCT GACACCGGCCGA	GGGTGTGGCGGA CCCACACCGCCT	CCGCTATCAGGA GGCGATAGTCCT	CATAGCGTTGGC GTATCGCAACCG
5209	TACCCGTGATAT ATGGGCACTATA	TGCTGAAGAGCT ACGACTTCTCGA	TGGCGGCGAATG ACCGCCGCTTAC	GGCTGACCGCTT CCGACTGGCGAA	CCTCGTGCTTTA GGAGCACGAAAT	CGGTATCGCCGC GCCATAGCGGCG	TCCCGATTTCGA AGGGCTAAGCGT
5293	GCGCATCGCCTT CGCGTAGCGGAA	CTATCGCCTTCT GATAGCGGAAGA	TGACGAGTTCTT ACTGCTCAAGAA	CTGAGCGGGACT GACTCGCCCTGA	CTGGGGTTCGAA GACCCCAAGCTT	ATGACCGACCAA TACTGGCTGGTT	GCGACGCCCAAC CGCTGCGGGTTG
5377	CTGCCATCACGA GACGGTAGTGCT	GATTTTCGATTCC CTAAAGCTAAGG	ACCGCCGCCTTC TGGCGGCGGAAG	TATGAAAGGTTG ATACTTTCCAAC	GGCTTCGGAATC CCGAAGCCTTAG	GTTTTCCGGGAC CAAAAGGCCCTG	GCCGGCTGGATG CGGCCGACCTAC
5461	ATCCTCCAGCGC TAGGAGGTCGCG	GGGGATCTCATG CCCCTAGAGTAC	CTGGAGTTCTTC GACCTCAAGAAG	GCCCACCCTAGG CGGGTGGGATCC	GGGAGGCTAACT CCCTCCGATTGA	GAAACACGGAAG CTTTGTGCCTTC	GAGACAATACCG CTCTGTTATGGC
5545	GAAGGAACCCGC CTTCCTTGGGCG	GCTATGACGGCA CGATACTGCCGT	ATAAAAAGACAG TATTTTTCTGTC	AATAAAACGCAC TTATTTTTCGTG	GGTGTGTTGGGTCG CCACAACCCAGC	TTTGTTTATAAA AAACAAGTATTT	CGCGGGGTTCGG GCGCCCCAAGCC
5629	TCCCAGGGCTGG AGGGTCCCAGAC	CACTCTGTCTGAT GTGAGACAGCTA	ACCCACCCGAGA TGGGGTGGCTCT	CCCCATTGGGGC GGGGTAACCCCG	CAATACGCCCCG GTTATGCGGGCG	GTTTCTTCCCTT CAAAGAAGGAAA	TCCCCACCCAC AGGGGTGGGGTG
5713	CCCCCAAGTTTCG GGGGGTTCAAGC	GGTGAAGGCCCA CCACTTCCGGGT	GGGCTCGCAGCC CCCGAGCGTCGG	AACGTCGGGGCG TTGCAGCCCCGC	GCAGGCCCTGCC CGTCCGGGACGG	ATAGCCTCAGGT TATCGGAGTCCA	TACTCATATATA ATGAGTATATAT

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5797	CTTTAGATTGAT	TTAAAACTTCAT	TTTTAATTTAAA	AGGATCTAGGTG	AAGATCCTTTTT	GATAATCTCATG	ACCAAAATCCCT
	GAAATCTAACTA	AATTTTGAAGTA	AAAATTAAATTT	TCCTAGATCCAC	TTCTAGGAAAAA	CTATTAGAGTAC	TGGTTTTAGGGA
5881	TAACGTGAGTTT	TCGTTCCACTGA	GCGTCAGACCCC	GTAGAAAAGATC	AAAGGATCTTCT	TGAGATCCTTTT	TTTCTGCGCGTA
	ATTGCACTCAAA	AGCAAGGTGACT	CGCAGTCTGGGG	CATCTTTTCTAG	TTTCCTAGAAGA	ACTCTAGGAAAA	AAAGACGCGCAT
5965	ATCTGCTGCTTG	CAAACAAAAAAA	CCACCGCTACCA	GCGGTGGTTTGT	TTGCCGGATCAA	GAGCTACCAACT	CTTTTTCCGAAG
	TAGACGACGAAC	GTTTGTTTTTTT	GGTGGCGATGGT	CGCCACCAACA	AACGGCCTAGTT	CTCGATGGTTGA	GAAAAAGGCTTC
6049	GTAAC TGGCTTC	AGCAGAGCGCAG	ATACCAAATACT	GTCCTTCTAGTG	TAGCCGTAGTTA	GGCCACCACTTC	AAGAACTCTGTA
	CATTGACCGAAG	TCGTCTCGCGTC	TATGGTTTATGA	CAGGAAGATCAC	ATCGGCATCAAT	CCGGTGGTGAAG	TTCTTGAGACAT
6133	GCACCGCCTACA	TACCTCGCTCTG	CTAATCCTGTTA	CCAGTGGCTGCT	GCCAGTGGCGAT	AAGTCGTGTCTT	ACCGGGTTGGAC
	CGTGGCGGATGT	ATGGAGCGAGAC	GATTAGGACAAT	GGTCACCGACGA	CGGTACCCGCTA	TTCAGCACAGAA	TGGCCCAACCTG
					Alw44I ~~~~~ ApaLI ~~~~~		
6217	TCAAGACGATAG	TTACCGGATAAG	GCGCAGCGGTCTG	GGCTGAACGGGG	GGTTCGTGCACA	CAGCCCAGCTTG	GAGCGAACGACC
	AGTTCTGCTATC	AATGGCCTATTTC	GCGTCGCCAGC	CCGACTTGCCCC	CCAAGCACGTGT	GTCGGGTCGAAC	CTCGCTTGCTGG
6301	TACACCGAACTG	AGATACCTACAG	CGTGAGCTATGA	GAAAGCGCCACG	CTTCCCGAAGGG	AGAAAGGCGGAC	AGGTATCCGGTA
	ATGTGGCTTGAC	TCTATGGATGTC	GCACTCGATACT	CTTTCGCGGTGC	GAAGGGCTTCCC	TCTTTCCGCCTG	TCCATAGGCCAT
6385	AGCGGCAGGGTC	GGAACAGGAGAG	CGCACGAGGGAG	CTTCCAGGGGGA	AACGCCTGGTAT	CTTTATAGTCCT	GTCGGGTTTCGC
	TCGCCGTCCCAG	CCTTGTCCTCTC	GCGTGCTCCCTC	GAAGGTCCCCCT	TTGCGGACCATA	GAAATATCAGGA	CAGCCCAAAGCG
6469	CACCTCTGACTT	GAGCGTCGATTT	TTGTGATGCTCG	TCAGGGGGGCGG	AGCCTATGGAAA	AACGCCAGCAAC	GCGGCCTTTTTA
	GTGGAGACTGAA	CTCGCAGCTAAA	AACACTACGAGC	AGTCCCCCGCC	TCGGATACCTTT	TTGCGGTCGTTG	CGCCGGAAAAAT
6553	CGGTTTCCTGGCC	TTTTGCTGGCCT	TTTGCTCACATG	TTCTTTCTGCG	TTATCCCCTGAT	TCTGTGGATAAC	CGTATTACCGCC
	GCCAAGGACCGG	AAAACGACCGGA	AAACGAGTGTAC	AAGAAAGGACGC	AATAGGGGACTA	AGACACCTATTG	GCATAATGGCGG
6637	ATGCAT						
	TACGTA						