



SEQUENCE

1	GCGCCCAATA CGCGGGTTAT	CGCAAACCGC GCGTTTGGCG	CTCTCCCCGC GAGAGGGGCG	GCGTTGGCCG CGCAACCGGC	ATTCAATTAAT TAAGTAATTA	GCAGCTGGCA CGTCGACCGT	CGACAGGTTT GCTGTCCAAA	CCCAGCTGGA GGGCTGACCT	AAGCGGGCAG TTCGCCCCGC	TGAGCGCAAC ACTCGCGTTG
101	GCAATTAATG CGTTAATTAC	TGAGTTAGCT ACTCAATCGA	CACTCATTAG GTGAGTAATC	GCACCCAGG CGTGGGGTCC	CTTTACACTT GAAATGTGAA	TATGCTTCCG ATACGAAGGC	GCTCGTATGT CGAGCATACA	TGTGTGGAAT ACACACCTTA	TGTGAGCGGA ACACTCGCCT	TAAACAATTC ATTGTTAAAG
							BamHI ~~~~~	KpnI ~~~~~		
								SmaI ~~~~~		
								XmaI ~~~~~		
			HindIII ~~~~~		PstI ~~~~~			AvaI ~~~~~		
201	ACACAGGAAA TGTGTCTTTT	CAGCTATGAC GTCGATACTG	CATGATTACG GTACTAATGC	CCAAGCTTGC GGTTTCGAACG	ATGCCTGCAG TACGGACGTC	GTGCACTCTA CAGCTGAGAT	GAGGATCCCC CTCCTAGGGG	GGGTACCCCG CCCATGGGGC	GCGCGCCTCA CGCGCGGAGT	CTGATGATTC GACTACTAAG
301	GGGTCTACTT CCCAGATGAA	TCGGCGCCTG AGCCGCGGAC	AGCATCATTT TCGTAGTAAA	AGCTTTTTAG TCGAAAAATC	CTTCTGCTAA GAAGACGATT	AAGGTTAGCG TTCCAATCGC	CTTTGGCTTG GAAACCGAAC	GGTCATCTTT CCAGTAGAAA	TAAACTTTTG ATTTGAAACC	ATGAAGGCGT TACTTCCGCA
401	TTCGTTGTTT AAGCAACAAG	TTCGTTTAA AAGCAAATTC	TTAGGTAAAT AATCCATTTA	GTAAGATCTC CATTCTAGAG	ATAGAACGCG TATCTTGC	TTTGTGTTG AAAAACAACA	CTTTGTTGAA GAAACAACCT	TTTGTGTGCT AAACAACAGA	ACTTTCGGCG TGAAAGCCGC	CCTGAGCATC GGACTCGTAG
501	ATTTAGCTTT TAAATCGAAA	TTAGCTTCTG AATCGAAGAC	CTAAAAGGTT GATTTTCCAA	AGCGCTTTGG TCGCGAAACC	CTTGGGTCAT GAACCCAGTA	CTTTTAAACT GAAAATTGTA	TTGGATGAAG AACCTACTTC	GCGTTTCGTT CGCAAAGCAA	GTTCTTCGTT CAAGAAGCAA	TAAGTTAGGT ATTCAATCCA
601	AAATGTAAGA TTTACATTCT	TCTCATAGAA AGAGTATCTT	CGCGTTTTGT GCGCAAAACA	TGTTCTTTGT ACAAGAAACA	TGAATTTGTT ACTTAAACAA	GTCCACGGCC CAGGTGCCGG	GCATGGTGAT CGTACCACTA	GGTGGTGGTG CCACCACCAC	AGAACCGGCG TCTTGGCCGC	TAATCTGGAA ATTAGACCTT
					HindIII ~~~~~	PmlI ~~~~~		HindIII ~~~~~		PacI ~~~~~
701	CATCGTATGG GTAGCATACC	ATAAAAGATT TATTTTCTAA	CTACCTGGAC GATGGACCTG	CTGGACCTTG GACCTTGAAC	GAACAAAGCT CTTGTTTCGA	TCCAAACCAC AGGTTTGGTG	GTGCTTGACA CACGAACTGT	AGCTTCCGTA TCGAAGGCAT	CCACTATTAA GGTGATAATT	TTAAGGTTGA AATTCCAAC
	EcoRI ~~~~~									
801	TGGAATTCCT ACCTTAAGGA	TCTCCTTGAC AGAGGAACTG	GTTAAAGTAT CAATTTCCATA	AGAGGTATAT TCTCCATATA	TAACAATTTT ATTGTTAAAA	TTGTTGATAC AACAACTATG	TTTTATGACA AAAATACTGT	TTTGAATAAG AAACTTATTC	AAGTAATACA TTCATTATGT	AACTGAAAAT TTGACTTTTA
901	GTTGAAAGTA CAACTTTCAT	TTAGTTAAAG AATCAATTTC	TGGTTATGCA ACCAATACGT	GCTTTTCCAT CGAAAAGGTA	TTATATATCT AATATATAGA	GTTAATAGAT CAATTATCTA	CAAAAATCAT GTTTTTAGTA	CGCTTCGCTG GCGAAGCGAC	ATTAATTACC TAATTAATGG	CCAGAAATAA GGTCTTTATT
1001	GGCTAAAAAA CCGATTTTTT	CTAATCGCAT GATTAGCGTA	TATCATCCTA ATAGTAGGAT	TGGTTGTAA ACCAACAATT	TTTGATTTCG AAACTAAGCA	TAATTTGAAG ATTAACTTC	GTTTGTGGGG CAAACACCCC	CCAGGTTACT GGTCCAATGA	GCCAATTTTT CGGTTAAAAA	CCTCTTCATA GGAGAAGTAT
1101	ACCATAAAAG TGGTATTTTC	CTAGTATTGT GATCATAACA	AGAATCTTTA TCTTAGAAAT	TTGTTTCGGAG AACAAGCCTC	CAGTGCGGCG GTCACGCCGC	CGAGGCACAT GCTCCGTGTA	CTGCGTTTCA GACGCAAAGT	GGAACGCGAC CCTTGCCTG	CGGTGAAGAC GCCACTTCTG	GAGGACGCAC CTCCTGCGTG

	SacI ~~~~~											
	SacII ~~~~~					EcoRI ~~~~~						
1201	GGGAGGAGAG CCCTCCTCTC	TCTTCCGTCG AGAAGGCAGC	GAGGGCTGTC CTCCCGACAG	GCCCGCTCGG CGGGCGAGCC	CGGCTTCTAA GCCGAAGATT	TCCGTTCCCG AGGCAAGGGC	CGGTGGAGCT GCCACCTCGA	GGAATTCACT GCTTAAGTGA	GGCCGTCGTT CCGCAGCAA	TTACAACGTC AATGTTGCAG		
1301	GTGACTGGGA CACTGACCCT	AAACCCTGCG TTTGGGACCG	GTTACCCAAC CAATGGGTTG	TTAATCGCCT AATTAGCGGA	TGCAGCACAT ACGTCGTGTA	CCCCCTTTCG GGGGGAAAGC	CCAGCTGGCG GGTCGACCGC	TAATAGCGAA ATTATCGCTT	GAGGCCCGCA CTCCGGGCGT	CCGATCGCCC GGCTAGCGGG		
1401	TTCCCAACAG AAGGTTTGTC	TTGCGCAGCC AACGCGTCGG	TGAATGGCGA ACTTACCGCT	ATGGCGCCTG TACCGCGGAC	ATGCGGTATT TACGCCATAA	TTCTCCTTAC AAGAGGAATG	GCATCTGTGC CGTAGACACG	GGTATTTTAC CCATAAAGTG	ACCGCATATA TGGCGTATAT	TCGGATCGTA AGCCTAGCAT		
1501	CTTGTTACCC GAACAATGGG	ATCATTGAAT TAGTAACTTA	TTTGAACATC AAACTTGTAG	CGAACCTGGG GCTTGGACCC	AGTTTTCCTT TCAAAAGGGA	GAAACAGATA CTTGTCTAT	GTATATTTGA CATATAAACT	ACCTGTATAA TGGACATATT	TAATATATAG ATTATATATC	TCTAGCGCTT AGATCGCGAA		
1601	TACGGAAGAC ATGCCTTCTG	AATGTATGTA TTACATACAT	TTTCGGTTCC AAAGCCAAGG	TGGAGAAACT ACCTCTTTGA	ATTGCATCTA TAACGTAGAT	TTGCATAGGT AACGTATCCA	AATCTTGCAC TTAGAACGTG	GTCGCATCCC CAGCGTAGGG	CGGTTCAATT GCCAAGTAAA	TCTGCGTTTC AGACGCAAAG		
1701	CATCTTGCAC GTAGAACGTG	TTCAATAGCA AAGTTATCGT	TATCTTTGTT ATAGAAAACA	AACGAAGCAT TTGTTCGTA	CTGTGCTTCA GACACGAAGT	TTTGTAGAA AAAACATCTT	CAAAAATGCA GTTTTTACGT	ACGCGAGAGC TGCGTCTCTG	GCTAATTTTT CGATTAAAAA	CAAACAAAGA GTTTGTCTCT		
1801	ATCTGAGCTG TAGACTCGAC	CATTTTTTACA GTAAAAATGT	GAACAGAAAT CTTGTCTTTA	GCAACGCGAA CGTTGCGCTT	AGCGCTATTT TCGCGATAAA	TACCAACGAA ATGGTTGCTT	GAATCTGTGC CTTAGACACG	TTCATTTTTG AAGTAAAAAC	TAAAACAAA ATTTTGTTTT	ATGCAACGCG TACGTTGCGC		
1901	AGAGCGCTAA TCTCGCGATT	TTTTTCAAAC AAAAAGTTTG	AAAGAATCTG TTTCTTAGAC	AGCTGCATTT TCGACGTAAA	TTACAGAACA AATGTCTTGT	GAAATGCAAC CTTTACGTTG	GCGAGAGCGC CGCTCTCGCG	TATTTTACCA ATAAAATGGT	ACAAAGAATC TGTTTCTTAG	TATACTTCTT ATATGAAGAA		
	AvaI ~~~~~											
2001	TTTTGTTCTA AAAACAAGAT	CAAAAATGCA GTTTTTACGT	TCCCAGAGAG AGGGCTCTCG	GCTATTTTTT CGATAAAAAG	TAACAAAGCA ATTGTTTCGT	TCTTAGATTA AGAATCTAAT	CTTTTTTTCT GAAAAAAGA	CCTTTGTGCG GGAACACGC	CTCTATAATG GAGATATTAC	CAGTCTCTTG GTCAGAGAAC		
2101	ATAACTTTTT TATTGAAAAA	GCACTGTAGG CGTGACATCC	TCCGTTAAGG AGGCAATTCC	TTAGAAGAAG AATCTTCTTC	GCTACTTTGG CGATGAAACC	TGTCATTTTT ACAGATAAAA	CTCTTCCATA GAGAAGGTAT	AAAAAAGCCT TTTTTTCGGA	GACTCCACTT CTGAGGTGAA	CCCgcgttta GGGCGCAAAT		
2201	CTGATTACTA GACTAATGAT	GCGAAGCTGC CGCTTCGACG	GGGTGCATTT CCACGTAATA	TTTCAAGATA AAAGTTCTAT	AAGGCATCCC TTCCGTAGGG	CGATTATATT GCTAATATAA	CTATACCGAT GATATGGCTA	GTGGATTGCG CACCTAACGC	CATACTTTGT GTATGAAACA	GAACAGAAAG CTTGTCTTTC		
2301	TGATAGCGTT ACTATCGCAA	GATGATTCTT CTACTAAGAA	CATTGGTCAG GTAACCACTC	AAAATTATGA TTTTAATACT	ACGGTTTCTT TGCCAAAGAA	CTATTTTGTG GATAAAACAG	TCTATATACT AGATATATGA	ACGTATAGGA TGCATATCCT	AATGTTTACA TTACAAATGT	TTTTCGTATT AAAAGCATAA		
2401	GTTTTCGATT CAAAAGCTAA	CACCTCATGA GTGAGATACT	ATAGTTCTTA TATCAAGAAT	CTACAATTTT GATGTTAAAA	TTTGTCTAAA AAACAGATTT	GAGTAATACT CTCATTATGA	AGAGATAAAC TCTCTATTTG	ATAAAAAATG TATTTTTTAC	TAGAGGTCGA ATCTCCAGCT	GTTTAGATGC CAAATCTACG		
2501	AAGTTCAAGG TTCAAGTTCC	AGCGAAAGGT TCGCTTTCCA	GGATGGGTAG CCTACCCATC	GTTATATAGG CAATATATCC	GATATAGCAC CTATATCGTG	AGAGATATAT TCTCTATATA	AGCAAAGAGA TCGTTTCTCT	TACTTTTGAG ATGAAAACCT	CAATGTTTGT GTTACAAACA	GGAAGCGGTA CCTTCGCCAT		
2601	TTCGCAATAT AAGCGTTATA	TTTAGTAGCT AAATCATCGA	CGTTACAGTC GCAATGTCAG	CGGTGCGTTT GCCACGCAAA	TTGGTTTTTT AACCAGAAAA	GAAAGTGCGT CTTTCACGCA	CTTCAGAGCG GAAGTCTCGC	CTTTTGGTTT GAAAAACAAA	TCAAAAGCGC AGTTTTCGCG	TCTGAAGTTC AGACTTCAAA		

2701	CTATACTTTC	TAGCTAGAGA	ATAGGAACTT	CGGAATAGGA	ACTTCAAAGC	GTTTCCGAAA	ACGAGCGCTT	CCGAAAATGC	AACGCGAGCT	GCGCACATAC
	GATATGAAAG	ATCGATCTCT	TATCCTTGAA	GCCTTATCCT	TGAAGTTTCG	CAAAGGCTTT	TGCTCGCGAA	GGCTTTTACG	TTGCGCTCGA	CGCGTGTATG
2801	AGCTCACTGT	TCACGTCGCA	CCTATATCTG	CGTGTTGCCT	GTATATATAT	ATACATGAGA	AGAACGGCAT	AGTGC GTGT	TATGCTTAAA	TGCGTACTTA
	TCGAGTGACA	AGTGCAGCGT	GGATATAGAC	GCACAACGGA	CATATATATA	TATGTACTCT	TCTTGCCGTA	TCACGCACAA	ATACGAATTT	ACGCATGAAT
2901	TATGCGTCTA	TTTATGTAGG	ATGAAAGGTA	GTCTAGTACC	TCCTGTGATA	TTATCCCATT	CCATGCGGGG	TATCGTATGC	TTCTTTCAGC	ACTACCCTTT
	ATACGCAGAT	AAATACATCC	TACTTTCCAT	CAGATCATGG	AGGACACTAT	AATAGGGTAA	GGTACGCCCC	ATAGCATACG	AAGGAAGTCG	TGATGGGAAA

Clal

~~~~~

|      |            |            |            |            |             |             |             |            |            |            |
|------|------------|------------|------------|------------|-------------|-------------|-------------|------------|------------|------------|
| 3001 | AGCTGTTCTA | TATGCTGCCA | CTCCTCAATT | GGATTAGTCT | CATCCTTCAA  | TGCTATCATT  | TCCTTTGATA  | TTGGATCGAT | CCGATGATAA | GCTGTCAAAC |
|      | TCGACAAGAT | ATACGACGGT | GAGGAGTTAA | CCTAATCAGA | GTAGGAAGTT  | ACGATAGTAA  | AGGAAACTAT  | AACCTAGCTA | GGCTACTATT | CGACAGTTTG |
| 3101 | ATGAGAATTA | ATTCTACCCT | ATGAACATAT | TCCATTTTGT | AATTTTCGTG  | CGTTTCTATT  | ATGAATTTCA  | TTTATAAAGT | TTATGTACAA | ATATCATAAA |
|      | TACTCTTAAT | TAAGATGGGA | TACTTGTATA | AGGTAAAACA | TTAAAGCACA  | GCAAAGATAA  | TACTTAAAGT  | AAATATTTCA | AATACATGTT | TATAGTATTT |
| 3201 | AAAAGAGAAT | CTTTTAAAGC | AAGGATTTTC | TTAACTTCTT | CGCGCAGAGC  | ATCACCGACT  | TCGGTG GTAC | TGTTGGAACC | ACCTAAATCA | CCAGTTCTGA |
|      | TTTTCTCTTA | GAAAAATTCG | TTCTAAAAG  | AATTGAAGAA | GCCGCTGTCTG | TAGTGGCTGA  | AGCCACCATG  | ACAACCTTGG | TGGATTTAGT | GGTCAAGACT |
| 3301 | TACCTGCATC | CAAAACCTTT | TTAACTGCAT | CTTCAATGGC | CTTACCTTCT  | TCAGGCAAGT  | TCAATGACAA  | TTTCAACATC | ATTGCAGCAG | ACAAGATAGT |
|      | ATGGACGTAG | GTTTTGGAAG | AATTGACGTA | GAAGTTACCG | GAATGGAAGA  | AGTCCGTTCA  | AGTTACTGTT  | AAAGTTGTAG | TAACGTCTGC | TGTTCTATCA |
| 3401 | GGCGATAGGG | TCAACCTTAT | TCTTTGGCAA | ATCTGGAGCA | GAACCGTGGC  | ATGGTTCGTA  | CAAACCAAAT  | GCGGTGTTCT | TGTCTGGCAA | AGAGGCCAAG |
|      | CCGCTATCCC | AGTTGGAATA | AGAAACCGTT | TAGACCTCGT | CTTGGCACCG  | TACCAAGCAT  | GTTTGGTTTA  | CGCCACAAGA | ACAGACCGTT | TCTCCGGTTC |
| 3501 | GACGCAGATG | GCAACAAACC | CAAGGAACCT | GGGATAACGG | AGGCTTCATC  | GGAGATGATA  | TCACCAAACA  | TGTTGCTGGT | GATTATAATA | CCATTTAGGT |
|      | CTGCGTCTAC | CGTTGTTTGG | GTTCCTTGGA | CCCTATTGCC | TCCGAAGTAG  | CCTCTACTAT  | AGTGGTTTGT  | ACAACGACCA | CTAATATTAT | GGTAAATCCA |
| 3601 | GGGTTGGGTT | CTTAACTAGG | ATCATGGCGG | CAGAATCAAT | CAATTGATGT  | TGAACCTTCA  | ATGTAGGAAA  | TTGTTCTTGT | ATGGTTTCTT | CCACAGTTT  |
|      | CCCAACCCAA | GAATTGATCC | TAGTACCGCC | GTCTTAGTTA | GTAACTACA   | ACTTGGAAGT  | TACATCCTTT  | AAGCAAGAAC | TACCAAAGGA | GGTGTCAAAA |
| 3701 | TCTCCATAAT | CTTGAAGAGG | CCAAAACATT | AGCTTTATCC | AAGGACCAAA  | TAGGCAATGG  | TGGCTCATGT  | TGTAGGGCCA | TGAAAGCGGC | CATTCTTGTG |
|      | AGAGGTATTA | GAACTTCTCC | GGTTTGTAA  | TCGAAATAGG | TTCCTGGTTT  | ATCCGTTACC  | ACCGAGTACA  | ACATCCCGGT | ACTTTCGCCG | GTAAGAACAC |
| 3801 | ATTCTTTGCA | CTTCTGGAAC | GGTGTATTGT | TCACTATCCC | AAGCGACACC  | ATCACCATCG  | TCTTCTTTTC  | TCTTACCAAA | GTAAATACCT | CCCACTAATT |
|      | TAAGAAACGT | GAAGACCTTG | CCACATAACA | AGTGATAGGG | TTCGCTGTGG  | TAGTGGTAGC  | AGAAGGAAAG  | AGAATGGTTT | CATTTATGGA | GGGTGATTAA |
| 3901 | CTCTGACAAC | AACGAAGTCA | GTACCTTTAG | CAAATTGTGG | CTTGATTGGA  | GATAAGTCTA  | AAAGAGAGTC  | GGATGCAAAG | TTACATGGTC | TTAAGTTGGC |
|      | GAGACTGTTG | TTGCTTCAGT | CATGGAAATC | GTTTAACACC | GAACCTAACCT | CTATTTCAGAT | TTTCTCTCAG  | CCTACGTTTC | AATGTACCAG | AATTCAACCG |
| 4001 | GTACAATTGA | AGTTCTTTAC | GGATTTTTAG | TAAACCTTGT | TCAGGTCTAA  | CACTACCTGT  | ACCCCATTTA  | GGACCACCCA | CAGCACCTAA | CAAAACGGCA |
|      | CATGTTAACT | TCAAGAAATG | CCTAAAAATC | ATTTGGAACA | AGTCCAGATT  | GTGATGGACA  | TGGGGTAAAT  | CCTGGTGGGT | GTGCTGGATT | GTTTTGCCGT |

Clal

~~~~~

4101	TCAACCTTCT	TGGAGGCTTC	CAGCGCCTCA	TCTGGAAGTG	GGACACCTGT	AGCATCGATA	GCAGCACCAC	CAATTAAATG	ATTTTCGAAA	TCGAACCTGA
	AGTTGGAAGA	ACCTCCGAAG	GTCGCGGAGT	AGACCTTCAC	CCTGTGGACA	TCGTAGCTAT	CGTCGTGGTG	GTAAATTTAC	TAAAAGCTTT	AGCTTGAAC
4201	CATTGGAACG	AACATCAGAA	ATAGCTTTAA	GAACCTTAAT	GGCTTCGGCT	GTGATCTTGA	CCAACGTGGT	CACCTGGCAA	AACGACGATC	TTCTTAGGGG

	GTAACCTTGC	TTGTAGTCTT	TATCGAAATT	CTTGGAATTA	CCGAAGCCGA	CACTAGAACT	GGTTGCACCA	GTGGACCGTT	TTGCTGCTAG	AAGAATCCCC
4301	CAGACATAGG	GGCAGACATT	AGAATGTATA	TCCTTGAAAT	ATATATATAT	ATTGCTGAAA	TGTAAAAGGT	AAGAAAAGTT	AGAATAAGAC	GATTGCTAAC
	GTCTGTATCC	CCGTCTGTAA	TCTTACATAT	AGGAACTTTA	TATATATATA	TAACGACTTT	ACATTTTCCA	TTCTTTTCAA	TCTTATTCTG	CTAACGATTG
4401	CACCTATTGG	AAAAACAAT	AGGTCCTTAA	ATAATATTGT	CAACTTCAAG	TATTGTGATG	CAAGCATTTA	GTCAATGAACG	CTTCTCTATT	CTATATGAAA
	GTGGATAACC	TTTTTTGTTA	TCCAGGAATT	TATTATAACA	GTTGAAGTTC	ATAACACTAC	GTTTCGTAAAT	CAGTACTTGC	GAAGAGATAA	GATATACTTT
4501	AGCCGGTTCC	GGCCTCTCAC	CTTTCCTTTT	TCTCCCAATT	TTTCAGTTGA	AAAAGGTATA	TGCGCGGCGA	CCTCTGAAAT	TAACAAAAAA	TTTCCAGTCA
	TCGGCCAAGG	CCGGAGAGTG	GAAAGGAAAA	AGAGGGTTAA	AAAGTCAACT	TTTTCCATAT	ACGCGCCGCT	GGAGACTTTA	ATGTGTTTTT	AAAGGTCAGT
4601	TCGAATTTGT	CTGTGCGATA	GCGCCCCTGT	GTGTTCTCGT	TATGTTGAGG	AAAAAATAA	TGGTTGCTAA	GAGATTCGAA	CTCTTGCATC	TTACGATACC
	AGCTTAAACA	GACACGCTAT	CGCGGGGACA	CACAAGAGCA	ATACAACCTC	TTTTTTTATT	ACCAACGATT	CTCTAAGCTT	GAGAACGTAG	AATGCTATGG
4701	TGAGTATTCC	CACAGTTAAT	TCTTGAAGAC	GAAAGGGCCT	CGTGATACGC	CTATTTTTAT	AGGTTAATGT	CATGATAATA	ATGGTTTTCTT	AGACGTCAGG
	ACTCATAAGG	GTGTCAATTA	AGAACTTCTG	C'TTCCCGGA	GCACTATGCG	GATAAAAAATA	TCCAATTACA	GTACTATTAT	TACCAAAGAA	TCTGCAGTCC
4801	TGGCACTTTT	CGGGGAAATG	TGCGCGGAAC	CCCTATTGTG	T'TATTTTCT	AAATACATTC	AAATATGTAT	CCGCTCATGA	GACAATAACC	CTGATAAATG
	ACCGTGAAAA	GCCCCTTTAC	ACGCGCCTTG	GGGATAAACA	AATAAAAAGA	TTTATGTAAAG	TTTATACATA	GGCGAGTACT	CTGTTATTGG	GACTATTTAC
4901	CTTCAATAAT	ATTGAAAAAG	GAAGAGTATG	AGTATTCAAC	ATTTCCGTGT	CGCCCTTATT	CCCTTTTTTG	CGGCATTTTG	CCTTCCTGTT	TTTGCTCACC
	GAAGTTATTA	TAAC'TTTTTC	CTTCTCATA	TCATAAGTTG	TAAAGGCACA	GCGGGAATAA	GGGAAAAAAC	GCCGTAAAA	GGAAGGACAA	AAACGAGTGG

ApaLI

					~~~~~					
5001	CAGAAACGCT	GGTGAAAGTA	AAAGATGCTG	AAGATCAGTT	GGGTGCACGA	GTGGGTTACA	TCGAACGGA	TCTCAACAGC	GGTAAGATCC	TTGAGAGTTT
	GTCTTTGCGA	CCACTTTCAT	TTTCTACGAC	T'TCTAGTCAA	CCCACGTGCT	CACCCAATGT	AGCTTGACCT	AGAGTTGTGCG	CCATTCTAGG	AAC'TCTCAA
5101	TCGCCCCGAA	GAACGTTTTT	CAATGATGAG	CACTTTTAAA	GTTCTGCTAT	GTGGCGCGGT	ATTATCCCGT	ATTGACGCGG	GGCAAGAGCA	ACTCGGTCGC
	AGCGGGGCTT	CTTGCAAAAG	GTTACTACTC	GTGAAAATTT	CAAGACGATA	CACCGCGCCA	TAATAGGGCA	TAAGTGCAGC	CCGTTCTCGT	TGAGCCAGCG
5201	CGCATACACT	ATTCTCAGAA	TGACTTGTTT	GAGTACTCAC	CAGTCACAGA	AAAGCATCTT	ACGGATGGCA	TGACAGTAAG	AGAATTATGC	AGTGCTGCCA
	GCGTATGTGA	TAAGAGTCTT	ACTGAACCAA	CTCATGAGTG	GTCAGTGCTT	TTTCGTAGAA	TGCCATACCT	ACTGTCATTC	TCTTAATACG	TCACGACGGT
5301	TAACCATGAG	TGATAAAGT	GCGGCCAACT	TACTTCTGAC	AACGATCGGA	GGACCGAAGG	AGCTAACCGC	TTTTTTGCAC	AACATGGGGG	ATCATGTAAC
	ATTGGTACTC	ACTATGTGTA	CGCCGGTTGA	ATGAAGACTG	TTGCTAGCCT	CCTGGCTTCC	TCGATTGGCG	AAAAAACGTG	TTGTACCCCC	TAGTACATTG
5401	TCGCCTTGAT	CGTTGGGAAC	CGGAGCTGAA	TGAAGCCATA	CCAAACGACG	AGCGTGACAC	CACGATGCCT	GTAGCAATGG	CAACAACGTT	GCGCAAACTA
	AGCGGAACTA	GCAACCCCTT	GCCTCGACTT	ACTTCGGTAT	GGTTTGCTGC	TCGCACTGTG	GTGCTACGGA	CATCGTTACC	GTGTTTGCAA	CGCGTTTGAT
5501	TTAACTGGCG	AAC'TACTTAC	TCTAGCTTCC	CGGCAACAAT	TAATAGACTG	GATGGAGGCG	GATAAAGTTG	CAGGACCACT	TCTGCGCTCG	GCCCTTCCGG
	AATTGACCGC	TTGATGAATG	AGATCGAAGG	GCCGTTGTTA	ATTATCTGAC	CTACCTCCGC	CTATTTCAAC	GTCTGTGTA	AGACGCGAGC	CGGGAAGGCC
5601	CTGGCTGGTT	TATTGCTGAT	AAATCTGGAG	CCGGTGAGCG	TGGGTCTCGC	GGTATCATTG	CAGCACTGGG	GCCAGATGGT	AAGCCCTCCC	GTATCGTAGT
	GACCGACCAA	ATAACGACTA	TTTAGACCTC	GGCCACTCGC	ACCCAGAGCG	CCATAGTAAC	GTCGTGACCC	CGGTCTACCA	TTCGGGAGGG	CATAGCATCA
5701	TATCTACACG	ACGGGGAGTC	AGGCAACTAT	GGATGAACGA	AATAGACAGA	TCGCTGAGAT	AGGTGCCTCA	CTGATTAAGC	ATTGGTAAGT	GTCAGACCAA
	ATAGATGTGC	TGCCCCCTCAG	TCCGTTGATA	CCTACTTGCT	TTATCTGTCT	AGCGACTCTA	TCCACGGAGT	GACTAATTCT	TAACCATTTA	CAGTCTGGTT
5801	GTTTACTCAT	ATATACTTTA	GATTGATTTA	AAACTTCATT	TTTAATTTAA	AAGGATCTAG	GTGAAGATCC	TTTTTGATAA	TCTCATGACC	AAAATCCCTT

	CAAATGAGTA	TATATGAAAT	CTAACTAAAT	TTTGAAGTAA	AAATTAAATT	TTCTAGATC	CACTTCTAGG	AAAAACTATT	AGAGTACTGG	TTTTAGGGAA	
5901	AACGTGAGTT TTGCACTCAA	TTCGTTCCAC AAGCAAGGTG	TGAGCGTCAG ACTCGCAGTC	ACCCCGTAGA TGGGCGATCT	AAAGATCAAA TTTCTAGTTT	GGATCTTCTT CCTAGAAGAA	GAGATCCTTT CTCTAGGAAA	TTTTCTGCGC AAAAGACGCG	GTAATCTGCT CATTAGACGA	GCTTGCAAAC CGAACGTTTG	
6001	AAAAAAACCA TTTTTTTGGT	CCGCTACCAG GGCGATGGTC	CGGTGGTTTG GCCACCAAAC	TTTGCCGGAT AAACGGCCTA	CAAGAGCTAC GTTCTCGATG	CAACTCTTTT GTTGAGAAAA	TCCGAAGGTA AGGCTTCCAT	ACTGGCTTCA TGACCGAAGT	GCAGAGCGCA CGTCTCGCGT	GATACCAAAT CTATGGTTTA	
6101	ACTGTCCTTC TGACAGGAAG	TAGTGTAGCC ATCACATCGG	GTAGTTAGGC CATCAATCCG	CACCACTTCA GTGGTGAAGT	AGAACTCTGT TCTTGAGACA	AGCACCGCCT TCGTGGCGGA	ACATACCTCG TGTATGGAGC	CTCTGCTAAT GAGACGATTA	CCTGTTACCA GGACAATGGT	GTGGCTGCTG CACCGACGAC	
											ApaLI
6201	CCAGTGGCGA GGTCACCGCT	TAAGTCGTGT ATTCAGCACA	CTTACCGGGT GAATGGCCCA	TGGACTCAAG ACCTGAGTTC	ACGATAGTTA TGCTATCAAT	CCGATAAAGG GGCCTATTCC	CGCAGCGGTC GCGTCGCCAG	GGGCTGAACG CCCGACTTGC	GGGGGTTTCGT CCCCAAGCA	GCACACAGCC CGTGTGTCTG	
6301	CAGCTTGAG GTCGAACCTC	CGAACGACCT GCTTGCTGGA	ACACCGAACT TGTGGCTTGA	GAGATACCTA CTCTATGGAT	CAGCGTGAGC GTCGCACTCG	TATGAGAAAG ATACTCTTTC	CGCCACGCTT GCGGTGCGAA	CCCGAAGGGA GGGCTTCCCT	GAAAGGCGGA CTTTCGCCCT	CAGGTATCCG GTCCATAGGC	
6401	GTAAGCGGCA CATTCGCCGT	GGGTCCGAAC CCCAGCCTTG	AGGAGAGCGC TCCTCTCGCG	ACGAGGGAGC TGCTCCCTCG	TTCCAGGGGG AAGGTCCCCC	AAACGCCTGG TTTGC GGACC	TATCTTTATA ATAGAAATAT	GTCCTGTCTG CAGGACAGCC	GTTCGCCAC CAAAGCGGTG	CTCTGACTTG GAGACTGAAC	
6501	AGCGTCGATT TCGAGCTAA	TTTGTGATGC AAACACTACG	TCGTAGGGG AGCAGTCCCC	GGCGGAGCCT CCGCCTCGGA	ATGAAAAAAC TACCTTTTTG	GCCAGCAACG CGGTCGTTGC	CGGCCTTTTT GCCGGA AAAA	ACGGTTCCCT TGCCAAGGAC	GCCTTTTGCT CGGAAAAACG	GGCCTTTTGC CCGGA AAACG	
6601	TCACATGTTT AGTGTACAAG	TTTCTGCGT AAAGGACGCA	TATCCCCTGA ATAGGGGACT	TTCTGTGGAT AAGACACCTA	AACCGTATTA TTGGCATAAT	CCGCCTTTGA GGCGAAACT	GTGAGCTGAT CACTCGACTA	ACCGCTCGCC TGGCGAGCGG	GCAGCCGAAC CGTCGGCTTG	GACCGAGCGC CTGGCTCGCG	
6701	AGCGAGTCAG TCGCTCAGTC	TGAGCGAGGA ACTCGCTCCT	AGCGGAAGA TCGCCTTCT								