

pSicoR-Efla-mCh

		Sall ~~~~~		BglII ~~~~~				
1	GCTTAAGCGG	TCGACGGATC	GGGAGATCTC	CCGATCCCCT	ATGGTGCACT	CTCAGTACAA		
	CGAATTCGCC	AGCTGCCTAG	CCCTCTAGAG	GGCTAGGGGA	TACCACGTGA	GAGTCATGTT		
61	TCTGCTCTGA	TGCCGCATAG	TTAAGCCAGT	ATCTGCTCCC	TGCTTGTGTG	TTGGAGGTCG		
	AGACGAGACT	ACGGCGTATC	AATTCGGTCA	TAGACGAGGG	ACGAACACAC	AACCTCCAGC		
121	CTGAGTAGTG	CGCGAGCAAA	ATTTAAGCTA	CAACAAGGCA	AGGCTTGACC	GACAATTGCA		
	GACTCATCAC	GCGCTCGTTT	TAAATTCGAT	GTTGTTCCGT	TCCGAACTGG	CTGTTAACGT		
181	TGAAGAATCT	GCTTAGGGTT	AGGCGTTTTG	CGCTGCTTCG	CGATGTACGG	GCCAGATATA		
	ACTTCTTAGA	CGAATCCCAA	TCCGCAAAAC	GCGACGAAGC	GCTACATGCC	CGGTCTATAT		
241	CGCGTTGACA	TTGATTATTG	ACTAGTTATT	AATAGTAATC	AATTACGGGG	TCATTAGTTC		
	GCGCAACTGT	AACATAAATC	TGATCAATAA	TTATCATTAG	TTAATGCCCC	AGTAATCAAG		
301	ATAGCCCATA	TATGGAGTTC	CGCGTTACAT	AACTTACGGT	AAATGGCCCG	CCTGGCTGAC		
	TATCGGGTAT	ATACCTCAAG	GCGCAATGTA	TTGAATGCCA	TTTACCGGGC	GGACCGACTG		
361	CGCCCAACGA	CCCCCGCCA	TTGACGTCAA	TAATGACGTA	TGTTCCCATA	GTAACGCCAA		
	GCGGGTTGCT	GGGGGCGGGT	AACTGCAGTT	ATTACTGCAT	ACAAGGGTAT	CATTGCGGTT		
421	TAGGGACTTT	CCATTGACGT	CAATGGGTGG	AGTATTTACG	GTAAACTGCC	CACTTGGCAG		
	ATCCCTGAAA	GGTAACTGCA	GTTACCCACC	TCATAAATGC	CATTTGACGG	GTGAACCGTC		
481	TACATCAAGT	GTATCATATG	CCAAGTACGC	CCCCTATTGA	CGTCAATGAC	GGTAAATGGC		
	ATGTAGTTCA	CATAGTATAC	GGTTCATGCG	GGGGATAACT	GCAGTTACTG	CCATTTACCG		
		<u>Lox Replace Rev Primer</u>						
541	CCGCTGGCA	TTATGCCCAG	TACATGACCT	TATGGGACTT	TCCTACTTGG	CAGTACATCT		
	GGCGGACCGT	AATACGGGTC	ATGTACTGGA	ATACCCTGAA	AGGATGAACC	GTCATGTAGA		
601	ACGTATTAGT	CATCGCTATT	ACCATGGTGA	TGCGGTTTTG	GCAGTACATC	AATGGGCGTG		
	TGCATAATCA	GTAGCGATAA	TGGTACCACT	ACGCCAAAAC	CGTCATGTAG	TTACCCGCAC		
661	GATAGCGGTT	TGACTCACGG	GGATTTCCAA	GTCTCCACCC	CATTGACGTC	AATGGGAGTT		
	CTATCGCCAA	ACTGAGTGCC	CCTAAAGGTT	CAGAGGTGGG	GTAACCTGCAG	TTACCCTCAA		
721	TGTTTTGGCA	CCAAAATCAA	CGGGACTTTC	CAAAATGTCT	TAACAACCTC	GCCCCATTGA		
	ACAAAACCGT	GGTTTTAGTT	GCCCTGAAAG	GTTTTACAGC	ATTGTTGAGG	CGGGGTAACT		
781	CGCAAATGGG	CGGTAGGCGT	GTACGGTGGG	AGGTCTATAT	AAGCAGCGCG	TTTTGCCTGT		
	GCGTTTACCC	GCCATCCGCA	CATGCCACCC	TCCAGATATA	TTCGTGCGCG	AAAACGGACA		
841	ACTGGGTCTC	TCTGGTTAGA	BglII ~~~~~	CCAGATCTGA	GCCTGGGAGC	TCTCTGGCTA	ACTAGGGAAC	
	TGACCCAGAG	AGACCAATCT	GGTCTAGACT	CGGACCCTCG	AGAGACCGAT	TGATCCCTTG		
901	CCACTGCTTA	AGCCTCAATA	AAGCTTGCCCT	TGAGTGCTTC	AAGTAGTGTG	TGCCCGTCTG		
	GGTGACGAAT	TGGGAGTTAT	TTGCAACGGA	ACTCACGAAG	TTCATCACAC	ACGGGCAGAC		
961	TTGTGTGACT	CTGGTAACTA	GAGATCCCTC	AGACCCTTTT	AGTCAGTGTG	GAAAATCTCT		
	AACACACTGA	GACCATTGAT	CTCTAGGGAG	TCTGGGAAAA	TCAGTCACAC	CTTTTAGAGA		
1021	AGCAGTGGCG	CCCGAACAGG	GACTTGAAAG	CGAAAGGGAA	ACCAGAGGAG	CTCTCTCGAC		
	TCGTCACCGC	GGGCTTGTC	CTGAACTTTC	GCTTTCCTT	TGGTCTCCTC	GAGAGAGCTG		
		<u>Psi</u>						
1081	GCAGGACTCG	GCTTGCTGAA	GCGCGCACGG	CAAGAGGCGA	GGGGCGGCGA	CTGGTGAGTA		
	CGTCTGAGC	CGAACGACTT	GCGCGTGCC	GTTCTCCGCT	CCCCGCCGCT	GACCACTCAT		
		<u>Psi</u>						
1141	CGCCAAAAAT	TTTACTAGC	GGAGGCTAGA	AGGAGAGAGA	TGGGTGCGAG	AGCGTCAGTA		
	GCGGTTTTTA	AAACTGATCG	CCTCCGATCT	TCCTCTCTCT	ACCCACGCTC	TCGCAGTCAT		

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	<u>Psi</u>					
1201	TTAAGCGGGG	GAGAATTAGA	TCGCGATGGG	AAAAAATTCG	GTTAAGGCCA	GGGGGAAAGA
	AATTCGCCCC	CTCTTAATCT	AGCGCTACCC	TTTTTTAAGC	CAATTCGGT	CCCCCTTCT
1261	AAAAATATAA	ATTAAAACAT	ATAGTATGGG	CAAGCAGGGA	GCTAGAACGA	TTCGCAGTTA
	TTTTTATATT	TAATTTTGTA	TATCATACCC	GTTTCGTCCCT	CGATCTTGCT	AAGCGTCAAT
1321	ATCCTGGCCT	GTTAGAAACA	TCAGAAGGCT	GTAGACAAAT	ACTGGGACAG	CTACAACCAT
	TAGGACCGGA	CAATCTTTGT	AGTCTTCCGA	CATCTGTTTA	TGACCCTGTC	GATGTTGGTA
1381	CCCTTCAGAC	AGGATCAGAA	GAACTTAGAT	CATTATATAA	TACAGTAGCA	ACCCTCTATT
	GGGAAGTCTG	TCCTAGTCTT	CTTGAATCTA	GTAATATATT	ATGTCATCGT	TGGGAGATAA
1441	GTGTGCATCA	AAGGATAGAG	ATAAAAAGACA	CCAAGGAAGC	TTTAGACAAG	ATAGAGGAAG
	CACACGTAGT	TTCCTATCTC	TATTTTCTGT	GGTTCCTTCG	AAATCTGTTC	TATCTCCTTC
				<u>EagI</u>		
1501	AGCAAAACAA	AAGTAAGACC	ACCGCACAGC	AAGCGGCCGG	CCGCGCTGAT	CTTCAGACCT
	TCGTTTTGTT	TTCATTCTGG	TGGCGTGTGC	TTCGCCGGCC	GGCGCGACTA	GAAGTCTGGA
1561	GGAGGAGGAG	ATATGAGGGA	CAATTGGAGA	AGTGAATTAT	ATAAATATAA	AGTAGTAAAA
	CCTCCTCCTC	TATACTCCCT	GTTAACCTCT	TCACTTAATA	TATTTATATT	TCATCATTTT
1621	ATTGAACCAT	TAGGAGTAGC	ACCCACCAAG	GCAAAGAGAA	GAGTGGTGCA	GAGAGAAAAA
	TAACTTGGTA	ATCCTCATCG	TGGGTGGTTC	CGTTTCTCTT	CTCACCACGT	CTCTCTTTTT
				<u>RRE</u>		
1681	AGAGCAGTGG	GAATAGGAGC	TTTGTTCCTT	GGGTTCCTGG	GAGCAGCAGG	AAGCACTATG
	TCTCGTCACC	CTTATCCTCG	AAACAAGGAA	CCCAAGAACC	CTCGTCGTCC	TTCGTGATAC
				<u>RRE</u>		
1741	GGCGCAGCGT	CAATGACGCT	GACGGTACAG	GCCAGACAAT	TATTGTCTGG	TATAGTGCAG
	CCGCGTCGCA	GTTACTGCGA	CTGCCATGTC	CGGTCTGTTA	ATAACAGACC	ATATCACGTC
				<u>RRE</u>		
1801	CAGCAGAACA	ATTTGCTGAG	GGCTATTGAG	GCGCAACAGC	ATCTGTTGCA	ACTCACAGTC
	GTCGTCTTGT	TAAACGACTC	CCGATAACTC	C GCGTTGTCTG	TAGACAACGT	TGAGTGTCTG
				<u>RRE</u>		
1861	TGGGGCATCA	AGCAGCTCCA	GGCAAGAATC	CTGGCTGTGG	AAAGATACCT	AAAGGATCAA
	ACCCCGTAGT	TCGTCGAGGT	CCGTTCTTAG	GACCGACACC	TTTCTATGGA	TTTCCTAGTT
1921	CAGCTCCTGG	GGATTTGGGG	TTGCTCTGGA	AAACTCATTT	GCACCACTGC	TGTGCCTTGG
	GTCGAGGACC	CCTAAACCCC	AACGAGACCT	TTTGAGTAAA	CGTGGTGACG	ACACGGAACC
1981	AATGCTAGTT	GGAGTAATAA	ATCTCTGGAA	CAGATTTGGA	ATCACACGAC	CTGGATGGAG
	TTACGATCAA	CCTCATTATT	TAGAGACCTT	GTCTAAACCT	TAGTGTGCTG	GACCTACCTC
2041	TGGGACAGAG	AAATTAACAA	TTACACAAGC	TTAATACACT	CCTTAATTGA	AGAATCGCAA
	ACCCTGTCTC	TTTAATTGTT	AATGTGTTTCG	AATTATGTGA	GGAATTAACT	TCTTAGCGTT
2101	AACCAGCAAG	AAAAGAATGA	ACAAGAATTA	TTGGAATTAG	ATAAATGGGC	AAGTTTGTGG
	TTGGTCGTTT	TTTTCTTACT	TGTTCTTAAT	AACCTTAATC	TATTTACCCG	TTCAAACACC
2161	AATTGGTTTTA	ACATAACAAA	TTGGCTGTGG	TATATAAAAT	TATTCATAAT	GATAGTAGGA
	TTAACCAAAAT	TGTATTGTTT	AACCGACACC	ATATATTTTA	ATAAGTATTA	CTATCATCCT
2221	GGCTTGGTAG	GTTTAAGAAT	AGTTTTTGCT	GTACTTTCTA	TAGTGAATAG	AGTTAGGCAG
	CCGAACCATC	CAAATCTTTA	TCAAAAACGA	CATGAAAGAT	ATCACTTATC	TCAATCCGTC
2281	GGATATTCAC	CATTATCGTT	TCAGACCCAC	CTCCCAACCC	CGAGGGGACC	CGACAGGCCC
	CCTATAAGTG	GTAATAGCAA	AGTCTGGGTG	GAGGGTTGGG	GCTCCCCTGG	GCTGTCCGGG

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2341	GAAGGAATAG AAGAAGAAGG TGGAGAGAGA GACAGAGACA GATCCATTTCG ATTAGTGAAC CTTCCTTATC TTCTTCTTCC ACCTCTCTCT CTGTCTCTGT CTAGGTAAGC TAATCACTTG
2401	GGATCGGCAC TGCCTGCGCC AATTCTGCAG ACAAATGGCA GTATTCATCC ACAATTTTAA CCTAGCCGTG ACGCACGCGG TTAAGACGTC TGTTTACCGT CATAAGTAGG TGTTAAAATT
<u>Lox Replace For Primer</u>	
2461	AAGAAAAGGG GGGATTGGGG GGTACAGTGC AGGGGAAAGA ATAGTAGACA TAATAGCAAC TTCTTTTCCC CCCTAACCCC CCATGTCACG TCCCCTTTCT TATCATCTGT ATTATCGTTG
2521	AGACATACAA ACTAAAGAAT TACAAAAACA AATTACAAAA ATTCAAAATT TTCGGGTTTA TCTGTATGTT TGATTTCTTA ATGTTTTTGT TTAATGTTTT TAAGTTTTAA AAGCCCAAAT
<u>U6 Promoter</u>	
2581	TTACAGGGAC AGCAGAGATC CAGTTTGGTT AGTACCGGGC CCGCTCTAGA GATCCGACGC AATGTCCCTG TCGTCTCTAG GTCAAACCAA TCATGGCCCG GCGGAGATCT CTAGGCTGCG
<u>U6 Promoter</u>	
2641	GCCATCTCTA GGCCCGCGCC GGCCCCCTCG CACAGACTTG TGGGAGAAGC TCGGCTACTC CGGTAGAGAT CCGGGCGCGG CCGGGGGAGC GTGTCTGAAC ACCCTCTTCG AGCCGATGAG
<u>U6 Promoter</u>	
2701	CCCTGCCCGG GTTAATTTGC ATATAATATT TCCTAGTAAC TATAGAGGCT TAATGTGCGA GGGACGGGGC CAATTAACG TATATTATAA AGGATCATTG ATATCTCCGA ATTACACGCT
<u>U6 Promoter</u>	
2761	TAAAAGACAG ATAATCTGTT CTTTTTAATA CTAGCTACAT TTTACATGAT AGGCTTGGAT ATTTCTGTCT TATTAGACAA GAAAAATTAT GATCGATGTA AAATGTACTA TCCGAACCTA
<u>loxP</u>	
<u>U6 Promoter</u>	
2821	TTCTATAACT TCGTATAGCA TACATTATAC GAAGTTATAC ATGTCACAAA AGGAAACTCA AAGATATTGA AGCATATCGT ATGTAATATG CTTCAATATG TACAGTGTTT TCCTTTGAGT
<u>U6 Promoter</u>	
2881	CCCTAACTGT AAAGTAATTG TGTGTTTTGA GACTATAAAT ATCCCTTGGG GAAAAGCCTT GGGATTGACA TTTTATTAAC ACACAAAACCT CTGATATTTA TAGGGAACCT CTTTTCGGAA
<u>U6 Promoter</u>	
<u>shRNA Cloning Site</u>	
2941	GTTAACGCGC GGTGACCCTC GAGTACTAGG ATCCATTAGG CGGCCGCGGA TCTGCGATCG CAATTGCGCG CCACTGGGAG CTCATGATCC TAGGTAATCC GCCGGCGCCT AGACGCTAGC
<u>EF-1alpha promoter</u>	
3001	CTCCGGTGCC CGTCAGTGGG CAGAGCGCAC ATCGCCACACA GTCCCCGAGA AGTTGGGGGG GAGGCCACGG GCAGTCACCC GTCTCGCGTG TAGCGGGTGT CAGGGGCTCT TCAACCCCCC
<u>EF-1alpha promoter</u>	
3061	AGGGGTCCGC AATTGAACCG GTGCCTAGAG AAGGTGGCGC GGGGTAAACT GGGAAAGTGA TCCCCAGCCG TTAACTTGGC CACGGATCTC TTCCACCGCG CCCCATTTGA CCCTTCACT
<u>EF-1alpha promoter</u>	
3121	TGTCGTGTAC TGGCTCCGCC TTTTCCCGA GGGTGGGGGA GAACCGTATA TAAGTGCAGT ACAGCACATG ACCGAGGCGG AAAAAGGGCT CCCACCCCTT CTTGGCATAT ATTCAGTCA

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	EF-1alpha promoter					
3181	AGTCGCCGTG	AACGTTCTTT	TTCGCAACGG	GTTTGCCGCC	AGAACACAGC	TGAAGCTTCG
	TCAGCGGCAC	TTGCAAGAAA	AAGCGTTGCC	CAAACGGCGG	TCTTGTGTGC	ACTTCGAAGC
					PvuII ~~~~~	
3241	EF-1alpha promoter					
	AGGGGCTCGC	ATCTCTCCTT	CACGCGCCCG	CGCCCTACC	TGAGGCCGCC	ATCCACGCCG
	TCCCCGAGCG	TAGAGAGGAA	GTGCGCGGGC	GGCGGGATGG	ACTCCGGCGG	TAGGTGCGGC
3301	EF-1alpha promoter					
	GTTGAGTCGC	GTTCTGCCGC	CTCCCGCCTG	TGGTGCCTCC	TGAAGTGCCT	CCGCCGTCTA
	CAACTCAGCG	CAAGACGGCG	GAGGGCGGAC	ACCACGGAGG	ACTTGACGCA	GGCGGCAGAT
3361	EF-1alpha promoter					
	GGTAAGTTTA	AAGCTCAGGT	CGAGACCGGG	CCTTTGTCCG	GCGCTCCCTT	GGAGCCTACC
	CCATTCAAAT	TTCGAGTCCA	GCTCTGGCCC	GGAAACAGGC	CGCGAGGGAA	CCTCGGATGG
3421	EF-1alpha promoter					
	TAGACTCAGC	CGGCTCTCCA	CGCTTTGCCT	GACCCTGCTT	GCTCAACTCT	ACGTCTTTGT
	ATCTGAGTCG	GCCGAGAGGT	GCGAAACGGA	CTGGGACGAA	CGAGTTGAGA	TGCAGAAACA
3481	EF-1alpha promoter					
	TTCGTTTTCT	GTTCTGCGCC	GTTACAGATC	CAAGCTGTGA	CCGGCGCCTA	CGCTAGCGCT
	AAGCAAAGA	CAAGACGCGG	CAATGTCTAG	GTTTCGACACT	GGCCGCGGAT	GCGATCGCGA
3541	AgeI ~~~~~	mCherry				
	ACCGGTCGCC	ACCATGGTGA	GCAAGGGCGA	GGAGGATAAC	ATGGCCATCA	TCAAGGAGTT
	TGGCCAGCGG	TGGTACCACT	CGTTCCCGCT	CCTCCTATTG	TACCGGTAGT	AGTTCCTCAA
3601	mCherry					
	CATGCGCTTC	AAGGTGCACA	TGGAGGGCTC	CGTGAACGGC	CACGAGTTCG	AGATCGAGGG
	GTACGCGAAG	TTCCACGTGT	ACCTCCCAG	GCACTTGCCG	GTGCTCAAGC	TCTAGCTCCC
3661	mCherry					
	CGAGGGCGAG	GGCCGCCCT	ACGAGGGCAC	CCAGACCGCC	AAGCTGAAGG	TGACCAAGGG
	GCTCCCGCTC	CCGGCGGGGA	TGCTCCCGTG	GGTCTGGCGG	TTCGACTTCC	ACTGGTTCCC
3721	mCherry					
	TGGCCCCCTG	CCCTTCGCCT	GGGACATCCT	GTCCCCTCAG	TTCATGTACG	GCTCCAAGGC
	ACCGGGGGAC	GGGAAGCGGA	CCCTGTAGGA	CAGGGGAGTC	AAGTACATGC	CGAGGTTCCG
3781	mCherry					
	CTACGTGAAG	CACCCCGCCG	ACATCCCCGA	CTACTTGAAG	CTGTCTTCC	CCGAGGGCTT
	GATGCACTTC	GTGGGGCGGC	TGTAGGGGCT	GATGAACTTC	GACAGGAAGG	GGCTCCCAGAA
3841	mCherry					
	CAAGTGGGAG	CGCGTGATGA	ACTTCGAGGA	CGGCGGCGTG	GTGACCGTGA	CCCAGGACTC
	GTTCAACCCTC	GCGCACTACT	TGAAGCTCCT	GCCGCCGCAC	CACTGGCACT	GGGTCTTGAG
3901	mCherry					
	CTCCCTGCAG	GACGGCGAGT	TCATCTACAA	GGTGAAGCTG	CGCGGCACCA	ACTTCCCCTC
	GAGGGACGTC	CTGCCGCTCA	AGTAGATGTT	CCACTTCGAC	GCGCCGTGGT	TGAAGGGGAG
3961	mCherry					
	CGACGGCCCC	GTAATGCAGA	AGAAGACCAT	GGGCTGGGAG	GCCTCCTCCG	AGCGGATGTA
	GCTGCCGGGG	CATTACGTCT	TCTTCTGGTA	CCCGACCCTC	CGGAGGAGGC	TCGCCTACAT
4021	mCherry					
	CCCCGAGGAC	GGCGCCCTGA	AGGGCGAGAT	CAAGCAGAGG	CTGAAGCTGA	AGGACGGCGG
	GGGGCTCCTG	CCGCGGGACT	TCCCGCTCTA	GTTTCGTCTCC	GACTTCGACT	TCCTGCCGCC

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	mCherry						
						PvuII ~~~~~	
4081	CCACTACGAC	GCTGAGGTCA	AGACCACCTA	CAAGGCCAAG	AAGCCCCTGC	AGCTGCCCCG	
	GGTGATGCTG	CRACTCCAGT	TCTGGTGGAT	GTTCCGGTTC	TTCGGGCACG	TCGACGGGCC	
	mCherry						
4141	CGCCTACAAC	GTCAACATCA	AGTTGGACAT	CACCTCCCAC	AACGAGGACT	ACACCATCGT	
	CGGGATGTTG	CAGTTGTAGT	TCAACCTGTA	GTGGAGGGTG	TTGCTCCTGA	TGTGGTAGCA	
	mCherry						
						BsrGI ~~~~~	
4201	GGAACAGTAC	GAACGCGCCG	AGGGCCGCCA	CTCCACCGGC	GGCATGGACG	AGCTGTACAA	
	CCTTGTCATG	CTTGCGCGGC	TCCCGCGGGT	GAGGTGGCCG	CCGTACCTGC	TCGACATGTT	
	mChern					loxP	
	EcoRI ~~~~~						
4261	GTAAGAATTC	GTCGAGGGAC	CTAATAACTT	CGTATAGCAT	ACATTATACG	AAGTTATACA	
	CATTCTTAAG	CAGCTCCCTG	GATTATTGAA	GCATATCGTA	TGTAATATGC	TTC AATATGT	
						WRE	
4321	TGTTTAAGGG	TTCCGGTTC	ACTAGGTACA	ATTCGATATC	AAGCTTATCG	ATAATCAACC	
	ACAAATTC	AAGGCCAAG	TGATCCATGT	TAAGCTATAG	TTCGAATAGC	TATTAGTTGG	
						WRE	
4381	TCTGGATTAC	AAAATTTGTG	AAAGATTGAC	TGGTATTCTT	AACTATGTTG	CTCCTTTTAC	
	AGACCTAATG	TTTTAAACAC	TTTCTAACTG	ACCATAAGAA	TTGATACAAC	GAGGAAAATG	
						WRE	
4441	GCTATGTGGA	TACGCTGCTT	TAATGCCTTT	GTATCATGCT	ATTGCTTCCC	GTATGGCTTT	
	CGATACACCT	ATGCGACGAA	ATTACGGAAA	CATAGTACGA	TAACGAAGGG	CATACCGAAA	
						WRE	
4501	CATTTTCTCC	TCCTTGATA	AATCCTGGTT	GCTGTCTCTT	TATGAGGAGT	TGTGGCCCCG	
	GTAAAAGAGG	AGGAACATAT	TTAGGACCAA	CGACAGAGAA	ATACTCCTCA	ACACCGGGCA	
						WRE	
4561	TGTCAGGCAA	CGTGGCGTGG	TGTGCACTGT	GTTTGCTGAC	GCAACCCCA	CTGGTTGGGG	
	ACAGTCCGTT	GCACCGCACC	ACACGTGACA	CAAACGACTG	CGTTGGGGGT	GACCAACCCC	
						WRE	
4621	CATTGCCACC	ACCTGTCAGC	TCCTTTCCGG	GACTTTCGCT	TTCCCCCTCC	CTATTGCCAC	
	GTAACGGTGG	TGGACAGTCG	AGGAAAGGCC	CTGAAAGCGA	AAGGGGGAGG	GATAACGGTG	
						WRE	
4681	GGCGGAACTC	ATCGCCGCCT	GCCTTGCCCG	CTGCTGGACA	GGGGCTCGGC	TGTTGGGCAC	
	CCGCCTTGAG	TAGCGGCGGA	CGGAACGGGC	GACGACCTGT	CCCCGAGCCG	ACAACCCGTG	
						WRE	
4741	TGACAATTCC	GTGGTGTGTT	CGGGGAAATC	ATCGTCCTTT	CCTTGGCTGC	TCGCCTGTGT	
	ACTGTTAAGG	CACCACAACA	GCCCCTTTAG	TAGCAGGAAA	GGAACCGACG	AGCGGACACA	
						WRE	
4801	TGCCACCTGG	ATTCTGCGCG	GGACGTCCTT	CTGCTACGTC	CCTTCGGCCC	TCAATCCAGC	
	ACGGTGGACC	TAAGACGCGC	CCTGCAGGAA	GACGATGCAG	GGAAGCCGGG	AGTTAGGTGC	
						WRE	
		SacII ~~~~~					
4861	GGACCTTCCT	TCCCGCGGCC	TGCTGCCGGC	TCTGCGGCCT	CTTCCGCGTC	TTCGCCTTCG	
	CCTGGAAGGA	AGGGCGCCGG	ACGACGGCCG	AGACGCCGGA	GAAGGCGCAG	AAGCGGAAGC	
						WRE	
					SalI ~~~~~		
4921	CCCTCAGACG	AGTCGGATCT	CCCTTTGGGC	CGCCTCCCCG	CATCGATACC	GTCGACCTCG	
	GGGAGTCTGC	TCAGCCTAGA	GGGAAACCCG	GCGGAGGGGC	GTAGCTATGG	CAGCTGGAGC	

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4981	ATCGAGACCT	AGAAAAACAT	GGAGCAATCA	CAAGTAGCAA	TACAGCAGCT	ACCAATGCTG
	TAGCTCTGGA	TCTTTTTTGT	CCTCGTTAGT	GTTTCATCGT	ATGTCGTCGA	TGTTTACGAC
5041	ATTGTGCCTG	GCTAGAAGCA	CAAGAGGAGG	AGGAGGTGGG	TTTTCCAGTC	ACACCTCAGG
	TAACACGGAC	CGATCTTCGT	GTTCTCCTCC	TCCTCCACCC	AAAAGGTCAG	TGTGGAGTCC
5101	TACCTTTAAG	ACCAATGACT	TACAAGGCAG	CTGTAGATCT	TAGCCACTTT	TTAAAAGAAA
	ATGGAAATTC	TGGTTACTGA	ATGTTCCGTC	GACATCTAGA	ATCGGTGAAA	AATTTTCTTT
5161	AGGGGGGACT	GGAAGGGCTA	ATTCACTCCC	AACGAAGACA	AGATATCCTT	GATCTGTGGA
	TCCCCCTGA	CCTTCCCGAT	TAAGTGAGGG	TTGCTTCTGT	TCTATAGGAA	CTAGACACCT
5221	TCTACCACAC	ACAAGGCTAC	TTCCCTGATT	GGCAGAACTA	CACACCAGGG	CCAGGGATCA
	AGATGGTGTG	TGTTCCGATG	AAGGGACTAA	CCGTCTTGAT	GTGTGGTCCC	GGTCCCTAGT
5281	GATATCCACT	GACCTTTGGA	TGGTGCTACA	AGCTAGTACC	AGTTGAGCAA	GAGAAGGTAG
	CTATAGGTGA	CTGGAAACCT	ACCACGATGT	TCGATCATGG	TCAACTCGTT	CTCTTCCATC
5341	AAGAAGCCAA	TGAAGGAGAG	AACACCCGCT	TGTTACACCC	TGTGAGCCTG	CATGGGATGG
	TTCTTCGGTT	ACTTCCCTCT	TTGTGGGCGA	ACAATGTGGG	ACACTCGGAC	GTACCCTACC
5401	ATGACCCGGA	GAGAGAAGTA	TTAGAGTGGA	GGTTTGACAG	CCGCCTAGCA	TTTCATCACA
	TACTGGGCCT	CTCTCTTCAT	AATCTCACCT	CCAAACGTGC	GGCGGATCGT	AAAGTAGTGT
5461	TGGCCCGAGA	GCTGCATCCG	GA CTGTACTG	GGTCTCTCTG	GTTAGACCAG	ATCTGAGCCT
	ACCGGGCTCT	CGACGTAGGC	CTGACATGAC	CCAGAGAGAC	CAATCTGGTC	TAGACTCGGA
5521	GGGAGCTCTC	TGGCTAACTA	GGGAACCCAC	TGCTTAAGCC	TCAATAAAGC	TTGCCTTGAG
	CCCTCGAGAG	ACCGATTGAT	CCCTTGGGTG	ACGAATTCGG	AGTTATTTTCG	AACGGAACCTC
5581	TGCTTCAAGT	AGTGTGTGCC	CGTCTGTTGT	GTGACTCTGG	TA ACTAGAGA	TCCCTCAGAC
	ACGAAGTTCA	TCACACACGG	GCAGACAACA	CACTGAGACC	ATTGATCTCT	AGGGAGTCTG
5641	CCTTTTAGTC	AGTGTGGAAA	ATCTCTAGCA	GCATGTGAGC	AAAAGGCCAG	CAAAGGCCA
	GGAAAATCAG	TCACACCTTT	TAGAGATCGT	CGTACACTCG	TTTTCCGGTC	GTTTTCCGGT
5701	GGAACCGTAA	AAAGGCCGCG	TTGCTGGCGT	TTTTCCATAG	GCTCCGCCCC	CCTGACGAGC
	CCTTGGCATT	TTTTCCGGCGC	AACGACCGCA	AAAAGGTATC	CGAGGCGGGG	GGACTGCTCG
5761	ATCACAAAAA	TCGACGCTCA	AGTCAGAGGT	GGCGAAACCC	GACAGGACTA	TAAAGATACC
	TAGTGTTTTT	AGCTGCGAGT	TCAGTCTCCA	CCGCTTTGGG	CTGTCCTGAT	ATTTCTATGG
5821	AGGCGTTTCC	CCCTGGAAGC	TCCCTCGTGC	GCTCTCCTGT	TCCGACCCTG	CCGCTTACCG
	TCCGCAAAGG	GGGACCTTCG	AGGGAGCACG	CGAGAGGACA	AGGCTGGGAC	GGCGAATGGC
5881	GATACCTGTC	CGCCTTTCTC	CCTTCGGGAA	GCGTGGCGCT	TTCTCATAGC	TCACGCTGTA
	CTATGGACAG	GCGGAAAGAG	GGAAGCCCTT	CGCACC GCGA	AAGAGTATCG	AGTGCGACAT
5941	GGTATCTCAG	TTCGGTGTAG	GTCGTTTCGT	CCAAGCTGGG	CTGTGTGCAC	GAACCCCCCG
	CCATAGAGTC	AAGCCACATC	CAGCAAGCGA	GGTTCGACCC	GACACACGTG	CTTGGGGGGC
6001	TTCAGCCCGA	CCGCTGCGCC	TTATCCGGTA	ACTATCGTCT	TGAGTCCAAC	CCGGTAAGAC
	AAGTCGGGCT	GGCGACGCGG	AATAGGCCAT	TGATAGCAGA	ACTCAGGTTG	GGCCATTCTG
6061	ACGACTTATC	GCCACTGGCA	GCAGCCACTG	GTAACAGGAT	TAGCAGAGCG	AGGTATGTAG
	TGCTGAATAG	CGGTGACCGT	CGTCCGGTGC	CATTGTCCTA	ATCGTCTCGC	TCCATACATC
6121	GCGGTGCTAC	AGAGTTCTTG	AAGTGGTGGC	CTAACTACGG	CTACACTAGA	AGAACAGTAT
	CGCCACGATG	TCTCAAGAAC	TTCACCACCG	GATTGATGCC	GATGTGATCT	TCTTGTCTATA
6181	TTGGTATCTG	CGCTCTGCTG	AAGCCAGTTA	CCTTCGGAAA	AAGAGTTGGT	AGCTCTTGAT
	AACCATAGAC	GCGAGACGAC	TTCGGTCAAT	GGAAGCCTTT	TTCTCAACCA	TCGAGAACTA

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6241	CCGGCAAACA	AACCACCGCT	GGTAGCGGTG	GTTTTTTTTGT	TTGCAAGCAG	CAGATTACGC	GGCCGTTTGT	TTGGTGGCGA	CCATCGCCAC	CAAAAAACA	AACGTTTCGT	GTCTAATGCG
6301	GCAGAAAAAA	AGGATCTCAA	GAAGATCCTT	TGATCTTTTC	TACGGGGTCT	GACGCTCAGT	CGTCTTTTTT	TCCTAGAGTT	CTTCTAGGAA	ACTAGAAAAG	ATGCCCCAGA	CTGCGAGTCA
6361	GGAACGAAAA	CTCACGTAA	GGGATTTTGG	TCATGAGATT	ATCAAAAAGG	ATCTTCACCT	CCTTGCTTTT	GAGTGCAATT	CCCTAAAACC	AGTACTCTAA	TAGTTTTTCC	TAGAAGTGGA
6421	AGATCCTTTT	AAATTAATA	TGAAGTTTTA	AATCAATCTA	AAGTATATAT	GAGTAAACTT	TCTAGGAAAA	TTTAATTTTT	ACTTCAAAAT	TTAGTTAGAT	TTCATATATA	CTCATTTGAA
6481	GGTCTGACAG	TTACCAATGC	TTAATCAGTG	AGGCACCTAT	CTCAGCGATC	TGTCTATTTT	CCAGACTGTC	AATGGTTACG	AATTAGTCAC	TCCGTGGATA	GAGTCGCTAG	ACAGATAAAG
				AmpR								
6541	GTTTCATCCAT	AGTTGCCTGA	CTCCCCGTCG	TGTAGATAAC	TACGATACGG	GAGGGCTTAC	CAAGTAGGTA	TCAACGGACT	GAGGGGCAGC	ACATCTATTG	ATGCTATGCC	CTCCCGAATG
				AmpR								
6601	CATCTGGCCC	CAGTGTGCA	ATGATACCGC	GAGACCCACG	CTCACC GGCT	CCAGATTTAT	GTAGACCGGG	GTCACGACGT	TACTATGGCG	CTCTGGGTGC	GAGTGGCCGA	GGTCTAAATA
				AmpR								
6661	CAGCAATAAA	CCAGCCAGCC	GGAAGGGCCG	AGCGCAGAAG	TGGTCCTGCA	ACTTTATCCG	GTCGTTATTT	GGTCGGTCGG	CCTTCCCGGC	TCGCGTCTTC	ACCAGGACGT	TGAAATAGGC
				AmpR								
6721	CCTCCATCCA	GTCTATTAAT	TGTTGCCGGG	AAGCTAGAGT	AAGTAGTTCG	CCAGTTAATA	GGAGGTAGGT	CAGATAATTA	ACAACGGCCC	TTCGATCTCA	TTCATCAAGC	GGTCAATTAT
				AmpR								
6781	GTTTGCGCAA	CGTTGTTGCC	ATTGCTACAG	GCATCGTGGT	GTCACGCTCG	TCGTTTG GTA	CAAACGCGTT	GCAACAACGG	TAACGATGTC	CGTAGCACCA	CAGTGCAGC	AGCAAACCAT
				AmpR								
6841	TGGCTTCATT	CAGCTCCGGT	TCCAACGAT	CAAGGCGAGT	TACATGATCC	CCCATGTTGT	ACCGAAGTAA	GTCGAGGCCA	AGGGTTGCTA	GTTCCGCTCA	ATGTACTAGG	GGGTACAACA
				AmpR								
6901	GCAAAAAGC	GGTTAGCTCC	TTCGGTCCTC	CGATCGTTGT	CAGAAGTAAG	TTGGCCGCAG	CGTTTTTTTCG	CCAATCGAGG	AAGCCAGGAG	GCTAGCAACA	GTCTTCATTC	AACCGGCGTC
				AmpR								
6961	TGTTATCACT	CATGGTTATG	GCAGCACTGC	ATAATTCTCT	TACTGTTCATG	CCATCCGTAA	ACAATAGTGA	GTACCAATAC	CGTCGTGACG	TATTAAGAGA	ATGACAGTAC	GGTAGGCATT
				AmpR								
7021	GATGCTTTTC	TGTGACTGGT	GAGTACTCAA	CCAAGTCATT	CTGAGAATAG	TGTATGCGGC	CTACGAAAAG	ACACTGACCA	CTCATGAGTT	GGTTCAGTAA	GACTCTTATC	ACATACGCCG
				AmpR								
7081	GACCGAGTTG	CTCTTGCCCG	GCGTCAATAC	GGGATAATAC	CGCGCCACAT	AGCAGAACTT	CTGGCTCAAC	GAGAACGGGC	CGCAGTTATG	CCCTATTATG	GCGCGGTGTA	TCGTCTTGAA
				AmpR								
7141	TAAAAGTGCT	CATCATTGGA	AAACGTTCTT	CGGGGCGAAA	ACTCTCAAGG	ATCTTACGCC	ATTTTCACGA	GTAGTAACCT	TTTGCAAGAA	GCCCCGTTT	TGAGAGTTCC	TAGAATGGCG
				AmpR								

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7201 TGTGAGATC CAGTTCGATG TAACCCACTC GTGCACCCAA CTGATCTTCA GCATCTTTTA  
ACAACCTCTAG GTCAAGCTAC ATTGGGTGAG CACGTGGGTT GACTAGAAGT CGTAGAAAAT

AmpR

7261 CTTTCACCAG CGTTTCTGGG TGAGCAAAAA CAGGAAGGCA AAATGCCGCA AAAAAGGGAA  
GAAAGTGGTC GCAAAGACCC ACTCGTTTTT GTCCTTCCGT TTTACGGCGT TTTTCCCTT

AmpR

7321 TAAGGGCGAC ACGGAAATGT TGAATACTCA TACTCTTCCT TTTTCAATAT TATTGAAGCA  
ATTCCCGCTG TGCCTTTACA ACTTATGAGT ATGAGAAGGA AAAAGTTATA ATAACCTCGT

AmpR

7381 TTTATCAGGG TTATTGTCTC ATGAGCGGAT ACATATTTGA ATGTATTTAG AAAAATAAAC  
AAATAGTCCC AATAACAGAG TACTCGCCTA TGTATAAACT TACATAAATC TTTTATTG

7441 AAATAGGGGT TCCGCGCACA TTTCCCCGAA AAGTGCCACC TGAC  
TTTATCCCCA AGGCGCGTGT AAAGGGGCTT TTCACGGTGG ACTG