

pSAT4-nEYFP-C1

1	TCGCGCGTTT	CGGTGATGAC	GGTAAAACC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCC
	CTCTGCCAGT	GTCGAACAGA	CATTTCGCTA	CGGCCCTCGT	CTGTTCGGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACTATG
	AGTCCCAGCG	AGTCGCCAC	AACCGCCCAC	AGCCCCGACC	GAATTGATAC
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	GCGTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTCCGCCATT
	GGCGTGTCTA	CGCATTCCTC	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGCGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
301	TACGCCAGCT	GCGAAAAGGG	GGATGTGCTG	CAAGGCGATT	AAGTTGGGTA
	ATGCGGTCGA	CCGCTTTCCC	CCTACACGAC	GTTCCGCTAA	TTCAACCCAT
351	ACGCCAGGGT	TTTCCCAGTC	ACGACGTTGT	AAAACGACGG	CCAGTGCCAT
	TGCGGTCCCA	AAAGGGTCAG	TGCTGCAACA	TTTTGCTGCC	GGTCACGGTA
				I-Sce	
			CaMV 35S promoter		
401	TACCCTGTTA	TCCCTAACCG	GTCAACATGT	GGAGCACGAC	ACACTTGTCT
	ATGGGACAAT	AGGGATTGGC	CAGTTGTACA	CCTCGTGCTG	TGTGAACAGA
		I-SceI			
			CaMV 35S promoter		
451	ACTCCAAAAA	TATCAAAGAT	ACAGTCTCAG	AAGACCAAAG	GGCAATTGAG
	TGAGGTTTTT	ATAGTTTCTA	TGTCAGAGTC	TTCTGGTTTC	CCGTTAACTC
			CaMV 35S promoter		
501	ACTTTTCAAC	AAAGGGTAAT	ATCCGGAAAC	CTCCTCGGAT	TCCATTGCCC
	TGAAAAGTTG	TTTCCCATTA	TAGGCCTTTG	GAGGAGCCTA	AGGTAACGGG
			CaMV 35S promoter		
551	AGCTATCTGT	CACTTTATTG	TGAAGATAGT	GGAAAAGGAA	GGTGGCTCCT
	TCGATAGACA	GTGAAATAAC	ACTTCTATCA	CCTTTTCCTT	CCACCGAGGA

pSAT4-nEYFP-C1

	CaMV 35S promoter				
601	ACAAATGCCA	TCATTGCGAT	AAAGGAAAGG	CCATCGTTGA	AGATGCCTCT
	TGTTTACGGT	AGTAACGCTA	TTTCCTTTCC	GGTAGCAACT	TCTACGGAGA
	CaMV 35S promoter				
651	GCCGACAGTG	GTCCCAAAGA	TGGACCCCA	CCCACGAGGA	GCATCGTGGA
	CGGCTGTCAC	CAGGGTTTCT	ACCTGGGGGT	GGGTGCTCCT	CGTAGCACCT
	CaMV 35S promoter				
701	AAAAGAAGAC	GTTCCAACCA	CGTCTTCAA	GCAAGTGGAT	TGATGTGATA
	TTTTCTTCTG	CAAGTTTGGT	GCAGAAGTTT	CGTTCACCTA	ACTACACTAT
	CaMV 35S promoter				
			Accl ~~~~~		
751	ACATGGTGGG	GCACGACACA	CTTGTCTACT	CCAAAAATAT	CAAAGATACA
	TGTACCACCT	CGTGCTGTGT	GAACAGATGA	GGTTTTTATA	GTTTCTATGT
	CaMV 35S promoter				
				BspEI ~~~~~	
801	GTCTCAGAAG	ACCAAAGGGC	AATTGAGACT	TTTCAACAAA	GGGTAATATC
	CAGAGTCTTC	TGGTTTCCCG	TAACTCTGA	AAAGTTGTTT	CCCATTATAG
	CaMV 35S promoter				
	BspEI ~~~~~				
851	CGGAAACCTC	CTCGGATTCC	ATTGCCCAGC	TATCTGTCAC	TTTATTGTGA
	GCCTTTGGAG	GAGCCTAAGG	TAACGGGTCG	ATAGACAGTG	AAATAACACT
	CaMV 35S promoter				
901	AGATAGTGGA	AAAGGAAGGT	GGCTCCTACA	AATGCCATCA	TTGCGATAAA
	TCTATCACCT	TTTCCTTCCA	CCGAGGATGT	TTACGGTAGT	AACGCTATTT
	CaMV 35S promoter				
951	GGAAAGGCCA	TCGTTGAAGA	TGCCTCTGCC	GACAGTGGTC	CCAAAGATGG
	CCTTTCCGGT	AGCAACTTCT	ACGGAGACGG	CTGTCACCAG	GGTTTCTACC
	CaMV 35S promoter				
1001	ACCCCCACCC	ACGAGGAGCA	TCGTGGAAAA	AGAAGACGTT	CCAACCACGT
	TGGGGGTGGG	TGCTCCTCGT	AGCACCTTTT	TCTTCTGCAA	GGTTGGTGCA
	CaMV 35S promoter				
1051	CTTCAAAGCA	AGTGGATTGA	TGTGATATCT	CCACTGACGT	AAGGGATGAC
	GAAGTTTCGT	TCACCTAACT	ACACTATAGA	GGTGACTGCA	TTCCCTACTG

pSAT4-nEYFP-C1

1101 GCACAATCCC ACTATCCTTC GCAAGACCCT TCCTCTATAT AAGGAAGTTC
CGTGTTAGGG TGATAGGAAG CGTTCTGGGA AGGAGATATA TTCCTTCAAG

translational enhancer 5'-UTR from tobacco

1151 ATTTTCATTTG GAGAGGACGT CGAGAGTTCT CAACACAACA TATACAAAAC
TAAAGTAAAC CTCTCCTGCA GCTCTCAAGA GTTGTGTTGT ATATGTTTTG

translational enhancer 5'-UTR from tobacco

1201 AAACGAATCT CAAGCAATCA AGCATTCTAC TTCTATTGCA GCAATTTAAA
TTTGCTTAGA GTTCGTTAGT TCGTAAGATG AAGATAACGT CGTTAAATTT

translational enhancer 5'-UTR from tobacco

1251 TCATTTCTTT TAAAGCAAAA GCAATTTTCT GAAAATTTTC ACCATTTACG
AGTAAAGAAA ATTTTCGTTTT CGTTAAAAGA CTTTTAAAAG TGGTAAATGC

nEYFP

translational enhancer 5'-UTR from tobacco

NcoI
~~~~~

1301 AACGATAGCC ATGGTGAGCA AGGGCGAGGA GCTGTTCCACC GGGGTGGTGC  
TTGCTATCGG TACCACTCGT TCCCGCTCCT CGACAAGTGG CCCCAACCAG

nEYFP

1351 CCATCCTGGT CGAGCTGGAC GGCGACGTAA ACGGCCACAA GTTCAGCGTG  
GGTAGGACCA GCTCGACCTG CCGCTGCATT TGCCGGTGTT CAAGTCGCAC

nEYFP

1401 TCCGGCGAGG GCGAGGGCGA TGCCACCTAC GGCAAGCTGA CCCTGAAGTT  
AGGCCGCTCC CGTCCCGCT ACGGTGGATG CCGTTCGACT GGGACTTCAA

nEYFP

1451 CATCTGCACC ACCGGCAAGC TGCCCCTGCC CTGGCCCACC CTCGTGACCA  
GTAGACGTGG TGGCCGTTTCG ACGGGCACGG GACCGGGTGG GAGCACTGGT

nEYFP

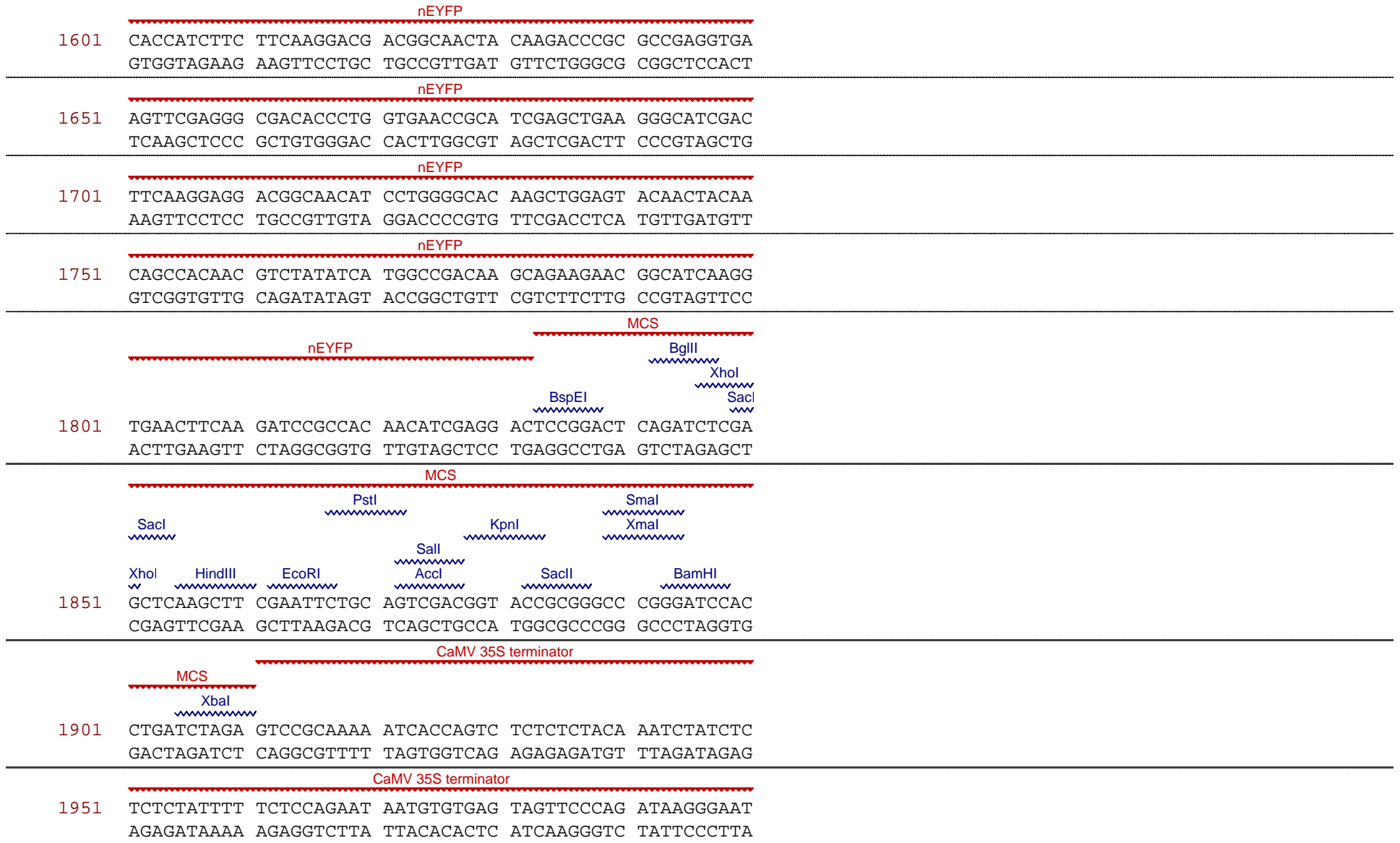
PstI  
~~~~~

1501 CCTTCGGCTA CGGCCTGCAG TGCTTCGCCC GCTACCCCGA CCACATGAAG
GGAAGCCGAT GCCGGACGTC ACGAAGCGGG CGATGGGGCT GGTGTACTTC

nEYFP

1551 CAGCACGACT TCTTCAAGTC CGCCATGCCC GAAGGCTACG TCCAGGAGCG
GTCGTGCTGA AGAAGTTCAG GCGGTACGGG CTTCCGATGC AGGTCCCTCGC

pSAT4-nEYFP-C1



pSAT4-nEYFP-C1

	<u>CaMV 35S terminator</u>				
2001	TAGGGTTCCT	ATAGGGTTTC	GCTCATGTGT	TGAGCATATA	AGAAACCCCTT
	ATCCCAAGAA	TATCCCAAAG	CGAGTACACA	ACTCGTATAT	TCTTTGGGAA
	<u>CaMV 35S terminator</u>				
2051	AGTATGTATT	TGTATTTGTA	AAATACTTCT	ATCAATAAAA	TTTCTAATTC
	TCATACATAA	ACATAAACAT	TTTATGAAGA	TAGTTATTTT	AAAGATTAAG
	<u>CaMV 35S terminator</u>				
2101	CTAAAACCAA	AATCCAGTGA	CGCGGCCGCA	TTACCCTGTT	ATCCCTAGTA
	GATTTTGGTT	TTAGGTCACT	GCGCCGCGCT	AATGGGACAA	TAGGGATCAT
			NotI ~~~~~	~~~~~	
			~~~~~	I-SceI ~~~~~	
2151	ATCATGGTCA	TAGCTGTTTC	CTGTGTGAAA	TTGTTATCCG	CTCACAATTC
	TAGTACCAGT	ATCGACAAAG	GACACACTTT	AACAATAGGC	GAGTGTTAAG
2201	CACACAACAT	ACGAGCCGGA	AGCATAAAGT	GTAAAGCCTG	GGGTGCCTAA
	GTGTGTTGTA	TGCTCGGCC	TCGTATTTCA	CATTTCCGGAC	CCCACGGATT
2251	TGAGTGAGCT	AACTCACATT	AATTGCGTTG	CGCTCACTGC	CCGCTTTCCA
	ACTCACTCGA	TTGAGTGTA	TTAACGCAAC	GCGAGTGACG	GGCGAAAGGT
2301	GTCGGGAAAC	CTGTCTGTCC	AGCTGCATTA	ATGAATCGGC	CAACGCGCGG
	CAGCCCTTTG	GACAGCACGG	TCGACGTAAT	TACTTAGCCG	GTTGCGCGCC
2351	GGAGAGGCGG	TTTGCGTATT	GGGCGCTCTT	CCGCTTCCTC	GCTCACTGAC
	CCTCTCCGCC	AAACGCATAA	CCCGGAGAA	GGCGAAGGAG	CGAGTGACTG
2401	TCGCTGCGCT	CGGTCGTTTC	GCTGCGGCGA	GCGGTATCAG	CTCACTCAA
	AGCGACGCGA	GCCAGCAAGC	CGACGCCGCT	CGCCATAGTC	GAGTGAGTTT
2451	GGCGGTAATA	CGGTTATCCA	CAGAATCAGG	GGATAACGCA	GGAAAGAACA
	CCGCCATTAT	GCCAATAGGT	GTCTTAGTCC	CCTATTGCGT	CCTTTCTTGT
2501	TGTGAGCAAA	AGGCCAGCAA	AAGGCCAGGA	ACCGTAAAAA	GGCCGCGTTG
	ACACTCGTTT	TCCGTCGTT	TTCCGTCCT	TGGCATTTTT	CCGGCGCAAC
2551	CTGGCGTTTT	TCCATAGGCT	CCGCCCCCT	GACGAGCATC	ACAAAAATCG
	GACCGCAAAA	AGGTATCCGA	GGCGGGGGGA	CTGCTCGTAG	TGTTTTTAGC
2601	ACGCTCAAGT	CAGAGGTGGC	GAAACCCGAC	AGGACTATAA	AGATACCAGG
	TGCGAGTTCA	GTCTCCACCG	C'TTTGGGCTG	TCCTGATATT	TCTATGGTCC
2651	CGTTTCCCCC	TGGAAGCTCC	CTCGTGCGCT	CTCCTGTTCC	GACCCTGCCG
	GCAAAGGGGG	ACCTTCGAGG	GAGCACGCGA	GAGGACAAGG	CTGGGACGGC

pSAT4-nEYFP-C1

2701	CTTACCGGAT	ACCTGTCCGC	CTTTCTCCCT	TCGGGAAGCG	TGGCGCTTTC
	GAATGGCCTA	TGGACAGGCG	GAAAGAGGGA	AGCCCTTCGC	ACCGCGAAAG
2751	TCAATGCTCA	CGCTGTAGGT	ATCTCAGTTC	GGTGTAGGTC	GTTCGCTCCA
	AGTTACGAGT	GCGACATCCA	TAGAGTCAAG	CCACATCCAG	CAAGCGAGGT
2801	AGCTGGGCTG	TGTGCACGAA	CCCCCGTTC	AGCCCGACCG	CTGCGCCTTA
	TCGACCCGAC	ACACGTGCTT	GGGGGGCAAG	TCGGGCTGGC	GACGCGGAAT
2851	TCCGGTAACT	ATCGTCTTGA	GTCCAACCCG	GTAAGACACG	ACTTATCGCC
	AGGCCATTGA	TAGCAGAACT	CAGGTTGGGC	CATTCTGTGC	TGAATAGCGG
2901	ACTGGCAGCA	GCCACTGGTA	ACAGGATTAG	CAGAGCGAGG	TATGTAGGCG
	TGACCGTCGT	CGGTGACCAT	TGTCCTAATC	GTCTCGCTCC	ATACATCCGC
2951	GTGCTACAGA	GTTCTTGAAG	TGGTGGCCTA	ACTACGGCTA	CACTAGAAGG
	CACGATGTCT	CAAGAACTTC	ACCACCGGAT	TGATGCCGAT	GTGATCTTCC
3001	ACAGTATTTG	GTATCTGCGC	TCTGCTGAAG	CCAGTTACCT	TCGAAAAAAG
	TGTCATAAAC	CATAGACGCG	AGACGACTTC	GGTCAATGGA	AGCCTTTTTT
3051	AGTTGGTAGC	TCTTGATCCG	GCAAACAAAC	CACCGCTGGT	AGCGGTGGTT
	TCAACCATCG	AGAACTAGGC	CGTTTGTTTG	GTGGCGACCA	TCGCCACCAA
3101	TTTTTGTTTG	CAAGCAGCAG	ATTACGCGCA	GAAAAAAAGG	ATCTCAAGAA
	AAAAACAAAC	GTTTCGTCGC	TAATGCGCGT	CTTTTTTTTCC	TAGAGTTCTT
3151	GATCCTTTGA	TCTTTTCTAC	GGGTCTGAC	GCTCAGTGGA	ACGAAAACCTC
	CTAGGAAACT	AGAAAAGATG	CCCCAGACTG	CGAGTCACCT	TGCTTTTGAG
3201	ACGTTAAGGG	ATTTTGGTCA	TGAGATTATC	AAAAAGGATC	TTCACCTAGA
	TGCAATTCCC	TAAAACCAGT	ACTCTAATAG	TTTTTCCTAG	AAGTGGATCT
3251	TCCTTTTAAA	TTAAAAATGA	AGTTTTAAAT	CAATCTAAAG	TATATATGAG
	AGGAAAATTT	AATTTTTACT	TCAAAATTTA	GTTAGATTTC	ATATATACTC
3301	TAAACTTGGT	CTGACAGTTA	CCAATGCTTA	ATCAGTGAGG	CACCTATCTC
	ATTTGAACCA	GACTGTCAAT	GGTTACGAAT	<u>TAGTCACTCC</u>	<u>GTGGATAGAG</u>
			AMP		
3351	AGCGATCTGT	CTATTTTCGTT	CATCCATAGT	TGCCTGACTC	CCCGTCGTGT
	<u>TCGCTAGACA</u>	<u>GATAAAGCAA</u>	<u>GTAGGTATCA</u>	<u>ACGGACTGAG</u>	<u>GGGCAGCACA</u>
			AMP		

pSAT4-nEYFP-C1

3401 AGATAACTAC GATACGGGAG GGCTTACCAT CTGGCCCCAG TGCTGCAATG  
TCTATTGATG CTATGCCCTC CCGAATGGTA GACCGGGGTC ACGACGTTAC

AMP

3451 ATACCGCGAG ACCCACGCTC ACCGGCTCCA GATTTATCAG CAATAAACCA  
TATGGCGCTC TGGGTGCGAG TGGCCGAGGT CTAAATAGTC GTTATTTGGT

AMP

3501 GCCAGCCGGA AGGGCCGAGC GCAGAAGTGG TCCTGCAACT TTATCCGCCT  
CGGTCCGCCT TCCC GGCTCG CGTCTTCACC AGGACGTTGA AATAGGCGGA

AMP

3551 CCATCCAGTC TATTAATTGT TGCCGGGAAG CTAGAGTAAG TAGTTCGCCA  
GGTAGGTCAG ATAATTAACA ACGGCCCTTC GATCTCATTC ATCAAGCGGT

AMP

3601 GTTAATAGTT TGCGCAACGT TGTTGCCATT GCTACAGGCA TCGTGGTGTC  
CAATTATCAA ACGCGTTGCA ACAACGGTAA CGATGTCCGT AGCACCACAG

AMP

3651 ACGCTCGTCG TTTGGTATGG CTTCATTTCAG CTCCGGTTCC CAACGATCAA  
TGCGAGCAGC AAACCATACC GAAGTAAGTC GAGGCCAAGG GTTGCTAGTT

AMP

3701 GGCGAGTTAC ATGATCCCC ATGTTGTGCA AAAAAAGCGGT TAGCTCCTTC  
CCGCTCAATG TACTAGGGGG TACAACACGT TTTTTCGCCA ATCGAGGAAG

AMP

3751 GGTCCCTCCGA TCGTTGTCAG AAGTAAGTTG GCCGCAGTGT TATCACTCAT  
CCAGGAGGCT AGCAACAGTC TTCATTCAAC CGGCGTCACA ATAGTGAGTA

AMP

3801 GGTTATGGCA GCACTGCATA ATTCTCTTAC TGTCATGCCA TCCGTAAGAT  
CCAATACCGT CGTGACGTAT TAAGAGAATG ACAGTACGGT AGGCATTCTA

AMP

3851 GCTTTTCTGT GACTGGTGAG TACTCAACCA AGTCATTCTG AGAATAGTGT  
CGAAAAGACA CTGACCACTC ATGAGTTGGT TCAGTAAGAC TCTTATCACA

AMP

3901 ATGCGGCGAC CGAGTTGCTC TTGCCCGGCG TCAATACGGG ATAATACCGC  
TACGCCGCTG GCTCAACGAG AACGGGCCGC AGTTATGCCC TATTATGGCG

AMP

pSAT4-nEYFP-C1

3951 GCCACATAGC AGAACTTTAA AAGTGCTCAT CATTGGAAAA CGTTCCTTCGG  
CGGTGTATCG TCTTGAAATT TTCACGAGTA GTAACCTTTT GCAAGAAGCC

AMP

4001 GGCGAAAAC TCAAGGATC TTACCGCTGT TGAGATCCAG TTCGATGTAA  
CCGCTTTTGA GAGTTCCTAG AATGGCGACA ACTCTAGGTC AAGCTACATT

AMP

4051 CCCACTCGTG CACCCAAC TCTTCAGCA TCTTTTACTT TCACCAGCGT  
GGGTGAGCAC GTGGGTTGAC TAGAAGTCGT AGAAAATGAA AGTGGTCGCA

AMP

4101 TTCTGGGTGA GCAAAAACAG GAAGGCAAAA TGCCGCAAAA AAGGGAATAA  
AAGACCCACT CGTTTTTGTG CTTCCGTTTT ACGGCGTTTT TTCCCTTATT

AMP

4151 GGGCGACAG GAAATGTTGA ATACTCATA TCTTCCTTTT TCAATATTAT  
CCCCTGTGC CTTTACAAC TATGAGTATG AGAAGGAAAA AGTTATAATA

AMP

4201 TGAAGCATT ATCAGGGTTA TTGTCTCATG AGCGGATACA TATTTGAATG  
ACTTCGTAAA TAGTCCAAT AACAGAGTAC TCGCCTATGT ATAAACTTAC

4251 TATTTAGAAA AATAAACAAA TAGGGGTTCC GCGCACATTT CCCCAGAAAAG  
ATAAATCTTT TTATTTGTTT ATCCCAAGG CGCGTGTAAG GGGGCTTTTC

4301 TGCCACCTGA CGTCTAAGAA ACCATTATTA TCATGACATT AACCTATAAA  
ACGGTGGACT GCAGATTCTT TGGTAATAAT AGTACTGTAA TTGGATATTT

4351 AATAGGCGTA TCACGAGGCC CTTTCGTC  
TTATCCGCAT AGTGCTCCGG GAAAGCAG