

pSAT4-nEYFP-N1

1	TCGCGCGTTT	CGGTGATGAC	GGTAAAAACC	TCTGACACAT	GCAGCTCCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCCG
	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	ATTTCGCCATT
	GGCGTGTCTA	CGCATTCCTC	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGCGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCCTAG	CCACGCCCGG	AGAAGCGATA
301	TACGCCAGCT	GCGGAAAGGG	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	CCGTAACTC
			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

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	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	ACATGGTGGA	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
	TGGGGTGGG	TGCTCCTCGT	AGCACCTTTT	TCTTCTGCAA	GGTTGGTGCA
	CaMV 35S promoter				
1051	CTTCAAAGCA	AGTGGATTGA	TGTGATATCT	CCACTGACGT	AAGGGATGAC
	GAAGTTTCGT	TCACCTAACT	ACACTATAGA	GGTGACTGCA	TTCCCTACTG

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1101 GCACAATCCC ACTATCCTTC GCAAGACCCT TCCTCTATAT AAGGAAGTTC  
CGTGTTAGGG TGATAGGAAG CGTTCGGGA AGGAGATATA TTCCTTCAAG

translational enhancer 5'-UTR from tobacco

1151 ATTTCATTTG 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 ATTTCGTTTT CGTTAAAAGA CTTTTAAAAG TGGTAAATGC

MCS

translational enhancer 5'-UTR from tobacco

1301 AACGATAGCC ATGGTCCGGA CTCAGATCTC GAGCTCAAGC TTCGAATTCT  
TTGCTATCGG TACCAGGCCT GAGTCTAGAG CTCGAGTTCG AAGCTTAAGA

PstI

BamHI

nEYFP

MCS

1351 GCAGTCGACG GTACCGCGGG CCCGGGATCC TGATGGTGAG CAAGGGCGAG  
CGTCAGCTGC CATGGCGCCC GGGCCCTAGG ACTACCACTC GTTCCCGCTC

nEYFP

1401 GAGCTGTTCA CCGGGGTGGT GCCCATCCTG GTCGAGCTGG ACGGCGACGT  
CTCGACAAGT GGCCCCACCA CGGGTAGGAC CAGCTCGACC TGCCGCTGCA

nEYFP

1451 AAACGGCCAC AAGTTCAGCG TGTCCGGCGA GGGCGAGGGC GATGCCACCT  
TTTGCCGGTG TTCAAGTCGC ACAGGCCGCT CCCGCTCCCG CTACGGTGGA

nEYFP

1501 ACGGCAAGCT GACCCTGAAG TTCATCTGCA CCACCGGCAA GCTGCCCGTG  
TGCCGTTCGA CTGGGACTTC AAGTAGACGT GGTGGCCGTT CGACGGGCAC

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	nEYFP				
				PstI	
1551	CCCTGGCCCA	CCCTCGTGAC	CACCTTCGGC	TACGGCCTGC	AGTGCTTCGC
	GGGACCGGGT	GGGAGCACTG	GTGGAAGCCG	ATGCCGGACG	TCACGAAGCG
	nEYFP				
1601	CCGCTACCCC	GACCACATGA	AGCAGCACGA	CTTCTTCAAG	TCCGCCATGC
	GGCGATGGGG	CTGGTGTACT	TCGTCTGTGCT	GAAGAAGTTC	AGGCGGTACG
	nEYFP				
1651	CCGAAGGCTA	CGTCCAGGAG	CGCACCATCT	TCTTCAAGGA	CGACGGCAAC
	GGCTTCCGAT	GCAGGTCCTC	GCGTGGTAGA	AGAAGTTCCT	GCTGCCGTTG
	nEYFP				
1701	TACAAGACCC	GCGCCGAGGT	GAAGTTCGAG	GGCGACACCC	TGGTGAACCG
	ATGTTCTGGG	CGCGGTCCA	CTTCAAGCTC	CCGCTGTGGG	ACCACTTGGC
	nEYFP				
1751	CATCGAGCTG	AAGGGCATCG	ACTTCAAGGA	GGACGGCAAC	ATCCTGGGGC
	GTAGCTCGAC	TTCCCGTAGC	TGAAGTTCCT	CCTGCCGTTG	TAGGACCCCG
	nEYFP				
1801	ACAAGCTGGA	GTACAACACTAC	AACAGCCACA	ACGTCTATAT	CATGGCCGAC
	TGTTTCGACCT	CATGTTGATG	TTGTCTGGTGT	TGCAGATATA	GTACCGGCTG
	nEYFP				
1851	AAGCAGAAGA	ACGGCATCAA	GGTGAACCTC	AAGATCCGCC	ACAACATCGA
	TTCGTCTTCT	TGCCGTAGTT	CCACTTGAAG	TTCTAGGCGG	TGTTGTAGCT
	nEYFP		CaMV 35S terminator		
		XbaI			
1901	GGACTGAAGA	TCCACCTAGT	CTAGAGTCCG	CAAAAATCAC	CAGTCTCTCT
	CCTGACTTCT	AGGTGGATCA	GATCTCAGGC	GTTTTTAGTG	GTCAGAGAGA
	CaMV 35S terminator				
1951	CTACAAATCT	ATCTCTCTCT	ATTTTTCTCC	AGAATAATGT	GTGAGTAGTT
	GATGTTTAGA	TAGAGAGAGA	TAAAAAGAGG	TCTTATTACA	CACTCATCAA
	CaMV 35S terminator				
2001	CCCAGATAAG	GGAATTAGGG	TTCTTATAGG	GTTTCGCTCA	TGTGTTGAGC
	GGGTCTATTC	CCTTAATCCC	AAGAATATCC	CAAAGCGAGT	ACACAACCTCG

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CaMV 35S terminator				
2051	ATATAAGAAA	CCCTTAGTAT	GTATTTGTAT	TTGTAAAATA CTTCTATCAA TATATTCCTTT GGGAAATCATA CATAAACATA AACATTTTAT GAAGATAGTT
CaMV 35S terminator				
2101	TAAAATTTCT	AATTCCTAAA	ACCAAAATCC	AGTGACGCGG CCGCATTACC ATTTTAAAGA TTAAGGATTT TGGTTTTAGG TCACTGCGCC GCGTAAATGG NotI I-SceI
2151	CTGTTATCCC	TAGTAATCAT	GGTCATAGCT	GTTTCCTGTG TGAAATTGTT GACAATAGGG ATCATTAGTA CCAGTATCGA CAAAGGACAC ACTTTAACAA I-SceI
2201	ATCCGCTCAC	AATTCACAC	AACATACGAG	CCGGAAGCAT AAAGTGTA TAGGCGAGTG TTAAGGTGTG TTGTATGCTC GGCCTTCGTA TTTCACATTT
2251	GCCTGGGGTG	CCTAATGAGT	GAGCTAACTC	ACATTAATTG CGTTGCGCTC CGGACCCAC GGATTACTCA CTCGATTGAG TGTAATTAAC GCAACGCGAG
2301	ACTGCCCGCT	TTCCAGTCGG	GAAACCTGTC	GTGCCAGCTG CATTAAATGAA TGACGGGCGA AAGGTCAGCC CTTTGGACAG CACGGTCGAC GTAATTACTT
2351	TCGGCCAACG	CGCGGGGAGA	GGCGGTTTGC	GTATTGGGCG CTCTTCCGCT AGCCGGTTGC GCGCCCCTCT CCGCCAAACG CATAACCCGC GAGAAGGCGA
2401	TCCTCGCTCA	CTGACTCGCT	GCGCTCGGTC	GTTTCGGCTGC GGCGAGCGGT AGGAGCGAGT GACTGAGCGA CGCGAGCCAG CAAGCCGACG CCGCTCGCCA
2451	ATCAGCTCAC	TCAAAGGCGG	TAATACGGTT	ATCCACAGAA TCAGGGGATA TAGTCGAGTG AGTTTCCGCC ATTATGCCAA TAGGTGTCTT AGTCCCCTAT
2501	ACGCAGGAAA	GAACATGTGA	GCAAAAGGCC	AGCAAAAGGC CAGGAACCGT TGCGTCCTTT CTTGTACACT CGTTTTCCGG TCGTTTTCCG GTCCTTGGCA
2551	AAAAAGGCCG	CGTTGCTGGC	GTTTTTCCAT	AGGCTCCGCC CCCCTGACGA TTTTTCCGGC GCAACGACCG CAAAAAGGTA TCCGAGGCGG GGGACTGCT
2601	GCATCACAAA	AATCGACGCT	CAAGTCAGAG	GTGGCGAAAC CCGACAGGAC CGTAGTGTTT TTAGCTGCGA GTTCAGTCTC CACCGCTTTG GGCTGTCTTG
2651	TATAAAGATA	CCAGGCGTTT	CCCCCTGGAA	GCTCCCTCGT GCGCTCTCCT ATATTTCTAT GGTCCGAAA GGGGACCTT CGAGGGAGCA CGCGAGAGGA
2701	GTTCCGACCC	TGCCGCTTAC	CGGATACCTG	TCCGCTTTC TCCCTTCGGG CAAGGCTGGG ACGGCGAATG GCCTATGGAC AGGCGGAAAG AGGGAAGCCC

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2751	AAGCGTGGCG	CTTTCTCAAT	GCTCACGCTG	TAGGTATCTC	AGTTCGGTGT
	TTCGCACCGC	GAAAGAGTTA	CGAGTGCAC	ATCCATAGAG	TCAAGCCACA
2801	AGGTCGTTTCG	CTCCAAGCTG	GGCTGTGTGC	ACGAACCCCC	CGTTCAGCCC
	TCCAGCAAGC	GAGGTTTCGAC	CCGACACACG	TGCTTGGGGG	GCAAGTCGGG
2851	GACCGCTGCG	CCTTATCCGG	TAACATATCGT	CTTGAGTCCA	ACCCGGTAAG
	CTGGCGACGC	GGAATAGGCC	ATTGATAGCA	GAACTCAGGT	TGGGCCATTC
2901	ACACGACTTA	TCGCCACTGG	CAGCAGCCAC	TGGTAACAGG	ATTAGCAGAG
	TGTGCTGAAT	AGCGGTGACC	GTCGTGCGTG	ACCATTGTCC	TAATCGTCTC
2951	CGAGGTATGT	AGGCGGTGCT	ACAGAGTTCT	TGAAGTGGTG	GCCTAACTAC
	GCTCCATACA	TCCGCCACGA	TGTCTCAAGA	ACTTCACCAC	CGGATTGATG
3001	GGCTACACTA	GAAGGACAGT	ATTTGGTATC	TGCGCTCTGC	TGAAGCCAGT
	CCGATGTGAT	CTTCCTGTCA	TAAACCATAG	ACGCGAGACG	ACTTCGGTCA
3051	TACCTTCGGA	AAAAGAGTTG	GTAGCTCTTG	ATCCGGCAAA	CAAACCACCG
	ATGGAAGCCT	TTTTCTCAAC	CATCGAGAAC	TAGGCCGTTT	GTTTGGTGGC
3101	CTGGTAGCGG	TGGTTTTTTTT	GTTTGCAAGC	AGCAGATTAC	GCGCAGAAAA
	GACCATCGCC	ACCAAAAAAA	CAAACGTTTC	TCGTCTAATG	CGCGTCTTTT
3151	AAAGGATCTC	AAGAAGATCC	TTTGATCTTT	TCTACGGGGT	CTGACGCTCA
	TTTCCTAGAG	TTCTTCTAGG	AAACTAGAAA	AGATGCCCCA	GACTGCGAGT
3201	GTGGAACGAA	AACTCACGTT	AAGGGATTTT	GGTCATGAGA	TTATCAAAAA
	CACCTTGCTT	TTGAGTGCAA	TTCCCTAAAA	CCAGTACTCT	AATAGTTTTT
3251	GGATCTTCAC	CTAGATCCTT	TTAAATTAAT	AATGAAGTTT	TAAATCAATC
	CCTAGAAGTG	GATCTAGGAA	AATTTAATTT	TTACTTCAAA	ATTTAGTTAG
3301	TAAAGTATAT	ATGAGTAAAC	TTGGTCTGAC	AGTTACCAAT	GCTTAATCAG
	ATTTTCATATA	TACTCATTTG	AACCAGACTG	<u>TCAATGGTTA</u>	<u>CGAATTAGTC</u>
				AMP	
3351	TGAGGCACCT	ATCTCAGCGA	TCTGTCTATT	TCGTTTCATCC	ATAGTTGCCT
	<u>ACTCCGTGGA</u>	<u>TAGAGTCGCT</u>	<u>AGACAGATAA</u>	<u>AGCAAGTAGG</u>	<u>TATCAACGGA</u>
				AMP	
3401	GACTCCCCGT	CGTGTAGATA	ACTACGATAC	GGGAGGGCTT	ACCATCTGGC
	<u>CTGAGGGGCA</u>	<u>GCACATCTAT</u>	<u>TGATGCTATG</u>	<u>CCCTCCCGAA</u>	<u>TGGTAGACCG</u>
				AMP	

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3451 CCCAGTGCTG CAATGATACC GCGAGACCCA CGCTCACCGG CTCCAGATTT  
GGGTCACGAC GTTACTATGG CGCTCTGGGT GCGAGTGGCC GAGGTCTAAA

AMP

3501 ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCCTG  
TAGTCGTTAT TTGGTCGGTC GGCCTTCCCG GCTCGCGTCT TCACCAGGAC

AMP

3551 CAACTTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA  
GTTGAAATAG GCGGAGGTAG GTCAGATAAT TAACAACGGC CCTTCGATCT

AMP

3601 GTAAGTAGTT CGCCAGTTAA TAGTTTGC GC AACGTTGTTG CCATTGCTAC  
CATTCAATCA GCGGTCAATT ATCAAACGCG TTGCAACAAC GGTAACGATG

AMP

3651 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG  
TCCGTAGCAC CACAGTGC GA CAGCAAACC ATACCGAAGT AAGTCGAGGC

AMP

3701 GTTCCCAACG ATCAAGGCGA GTTACATGAT CCCCCATGTT GTGCAAAAAA  
CAAGGGTTGC TAGTTCCGCT CAATGTACTA GGGGGTACAA CACGTTTTTT

AMP

3751 GCGGTTAGCT CCTTCGGTCC TCCGATCGTT GTCAGAAGTA AGTTGGCCGC  
CGCCAATCGA GGAAGCCAGG AGGCTAGCAA CAGTCTTCAT TCAACCGGCG

AMP

3801 AGTGTTATCA CTCATGGTTA TGGCAGCACT GCATAATTCT CTTACTGTCA  
TCACAATAGT GAGTACCAAT ACCGTCGTGA CGTATTAAGA GAATGACAGT

AMP

3851 TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC AACCAAGTCA  
ACGGTAGGCA TTCTACGAAA AGACACTGAC CACTCATGAG TTGGTTCAGT

AMP

3901 TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGGCGTCAAT  
AAGACTCTTA TCACATACGC CGCTGGCTCA ACGAGAACGG GCCGCAGTTA

AMP

3951 ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTG  
TGCCCTATTA TGGCGCGGTG TATCGTCTTG AAATTTTCAC GAGTAGTAAC

AMP

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4001 GAAAACGTTT TTCGGGGCGA AACTCTCAA GGATCTTACC GCTGTTGAGA  
CTTTTGCAAG AAGCCCCGCT TTTGAGAGTT CCTAGAATGG CGACAACTCT

AMP

4051 TCCAGTTCGA TGTAACCCAC TCGTGCACCC AACTGATCTT CAGCATCTTT  
AGGTCAAGCT ACATTGGGTG AGCACGTGGG TTGACTAGAA GTCGTAGAAA

AMP

4101 TACTTTCACC AGCGTTTCTG GGTGAGCAAA AACAGGAAGG CAAAATGCCG  
ATGAAAGTGG TCGCAAAGAC CCACTCGTTT TTGTCCTTCC GTTTTACGGC

AMP

4151 CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT CATACTCTTC  
GTTTTTTTCCC TTATTCCC GC TGTGCCTTTA CAACTTATGA GTATGAGAAG

AMP

4201 CTTTTTCAAT ATTATTGAAG CATTATCAG GGTTATTGTC TCATGAGCGG  
GAAAAAGTTA TAATAACTTC GTAAATAGTC CCAATAACAG AGTACTCGCC

4251 ATACATATTT GAATGTATTT AGAAAAATAA ACAAATAGGG GTTCCGCGCA  
TATGTATAAA CTTACATAAA TCTTTTTTATT TGTTTATCCC CAAGGCGCGT

4301 CATTTCCTCCG AAAAGTGCCA CCTGACGTCT AAGAAACCAT TATTATCATG  
GTAAAGGGGC TTTTCACGGT GGACTGCAGA TTCTTTGGTA ATAATAGTAC

4351 ACATTAACCT ATAAAAATAG GCGTATCACG AGGCCCTTTC GTC  
TGTAATTGGA TATTTTTATC CGCATAGTGC TCCGGGAAAG CAG