

pSAT1A-cEYFP-N1

1	TCGCGCGTTT	CGGTGATGAC	GGTAAAAACC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTTGG	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	CCAGTGCCGG
	TGCGGTCCCA	AAAGGGTCAG	TGCTGCAACA	TTTTGCTGCC	GGTCACGGCC
	Ascl		CaMV 35S promoter		Ascl
401	CGCGCCACCG	GTCAACATGT	GGAGCACGAC	ACACTTGTCT	ACTCCAAAAA
	GCGCGGTGGC	CAGTTGTACA	CCTCGTGCTG	TGTGAACAGA	TGAGGTTTTT
		CaMV 35S promoter			
451	TATCAAAGAT	ACAGTCTCAG	AAGACCAAAG	GGCAATTGAG	ACTTTTCAAC
	ATAGTTTCTA	TGTCAGAGTC	TTCTGGTTTC	CCGTAACTC	TGAAAAGTTG
		CaMV 35S promoter			
501	AAAGGGTAAT	ATCCGAAAAC	CTCCTCGGAT	TCCATTGCCC	AGCTATCTGT
	TTTCCCATTA	TAGGCCTTTG	GAGGAGCCTA	AGGTAACGGG	TCGATAGACA
		BspEI			
551	CACTTTATTG	TGAAGATAGT	GGAAAAGGAA	GGTGGCTCCT	ACAAATGCCA
	GTGAAATAAC	ACTTCTATCA	CCTTTTCCTT	CCACCGAGGA	TGTTTACGGT

pSAT1A-cEYFP-N1

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

pSAT1A-cEYFP-N1

1101 ACTATCCTTC GCAAGACCCT TCCTCTATAT AAGGAAGTTC ATTTTCATTTG
TGATAGGAAG CGTTCCTGGGA AGGAGATATA TTCCTTCAAG TAAAGTAAAC

translational enhancer 5'-UTR from tobacco

1151 GAGAGGACGT CGAGAGTTCT CAACACAACA TATACAAAAC AAACGAATCT
CTCTCCTGCA GCTCTCAAGA GTTGTGTTGT ATATGTTTTG TTTGCTTAGA

translational enhancer 5'-UTR from tobacco

1201 CAAGCAATCA AGCATTCTAC TTCTATTGCA GCAATTTAAA TCATTTCTTT
GTTTCGTTAGT TCGTAAGATG AAGATAACGT CGTTAAATTT AGTAAAGAAA

MCS

translational enhancer 5'-UTR from tobacco

1251 TAAAGCAAAA GCAATTTTCT GAAAATTTTC ACCATTTACG AACGATAGAG
ATTTTCGTTTT CGTTAAAAGA CTTTTAAAAG TGGTAAATGC TTGCTATCTC

BglII

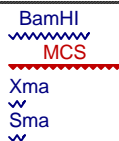
MCS

1301 ATCTCGAGCT CAAGCTTCGA ATTCTGCAGT CGACGGTACC GCGGGCCCGG
TAGAGCTCGA GTTCGAAGCT TAAGACGTCA GCTGCCATGG CGCCCGGGCC



cEYFP

1351 GATCCTGGGC AGCGTGCAGC TCGCCGACCA CTACCAGCAG AACACCCCCA
CTAGGACCCG TCGCACGTCG AGCGGCTGGT GATGGTCGTC TTGTGGGGGT



cEYFP

1401 TCGGCGACGG CCCCCTGTCTG CTGCCCGACA ACCACTACCT GAGCTACCAG
AGCCGCTGCC GGGGCACGAC GACGGGCTGT TGGTGATGGA CTCGATGGTC

cEYFP

1451 TCCGCCCTGA GCAAAGACCC CAACGAGAAG CGCGATCACA TGGTCCTGCT
AGGCGGGACT CGTTTCTGGG GTTGCTCTTC GCGCTAGTGT ACCAGGACGA

pSAT1A-cEYFP-N1

	cEYFP				
1501	GGAGTTCGTG	ACCGCCGCCG	GGATCACTCT	CGGCATGGAC	GAGCTGTACA
	CCTCAAGCAC	TGGCGGCCGC	CCTAGTGAGA	GCCGTACCTG	CTCGACATGT
	<hr/>				
	cEYFP		CaMV 35S terminator		
		XbaI			
1551	AGTGAAGATC	CACCTAGTCT	AGAGTCCGCA	AAAATCACCA	GTCTCTCTCT
	TCACTTCTAG	GTGGATCAGA	TCTCAGGCGT	TTTTAGTGGT	CAGAGAGAGA
	<hr/>				
	CaMV 35S terminator				
1601	ACAAATCTAT	CTCTCTCTAT	TTTTCTCCAG	AATAATGTGT	GAGTAGTTCC
	TGTTTAGATA	GAGAGAGATA	AAAAGAGGTC	TTATTACACA	CTCATCAAGG
	<hr/>				
	CaMV 35S terminator				
1651	CAGATAAGGG	AATTAGGGTT	CTTATAGGGT	TTCGCTCATG	TGTTGAGCAT
	GTCTATTCCC	TTAATCCCAA	GAATATCCCA	AAGCGAGTAC	ACAACCTCGTA
	<hr/>				
	CaMV 35S terminator				
1701	ATAAGAAACC	CTTAGTATGT	ATTTGTATTT	GTAAAATACT	TCTATCAATA
	TATTCCTTTGG	GAATCATAACA	TAAACATAAAA	CATTTTATGA	AGATAGTTAT
	<hr/>				
	CaMV 35S terminator		SacI	AscI	
			NotI		
1751	AAATTTCTAA	TTCCTAAAAC	CAAAATCCAG	TGACGCGGCC	GCGGCGCGCC
	TTTAAAGATT	AAGGATTTTG	GTTTTAGGTC	ACTGCGCCGG	CGCCGCGCGG
	<hr/>				
1801	GTAATCATGG	TCATAGCTGT	TTCCGTGTGTG	AAATTGTTAT	CCGCTCACAA
	CATTAGTACC	AGTATCGACA	AAGGACACAC	TTTAACAATA	GGCGAGTGTT
	<hr/>				
1851	TTCCACACAA	CATACGAGCC	GGAAGCATAA	AGTGTAAGC	CTGGGGTGCC
	AAGGTGTGTT	GTATGCTCGG	CCTTCGTATT	TCACATTTTCG	GACCCACGG
	<hr/>				
1901	TAATGAGTGA	GCTAACTCAC	ATTAATTGCG	TTGCGCTCAC	TGCCCCTTT
	ATTACTCACT	CGATTGAGTG	TAATTAACGC	AACGCGAGTG	ACGGGCGAAA
	<hr/>				
1951	CCAGTCGGA	AACCTGTCGT	GCCAGCTGCA	TTAATGAATC	GGCCAACGCG
	GGTCAGCCCT	TTGGACAGCA	CGGTCGACGT	AATTACTTAG	CCGTTGCGC
	<hr/>				
2001	CGGGGAGAGG	CGGTTTGCGT	ATTGGGCGCT	CTTCCGCTTC	CTCGCTCACT
	GCCCTCTCC	GCCAAACGCA	TAACCCGCGA	GAAGGCGAAG	GAGCGAGTGA
	<hr/>				
2051	GACTCGCTGC	GCTCGGTCGT	TCGGCTGCGG	CGAGCGGTAT	CAGCTCACTC
	CTGAGCGACG	CGAGCCAGCA	AGCCGACGCC	GCTCGCCATA	GTCGAGTGAG

pSAT1A-cEYFP-N1

2101	AAAGGCGGTA	ATACGGTTAT	CCACAGAATC	AGGGGATAAC	GCAGGAAAGA
	TTTCCGCCAT	TATGCCAATA	GGTGTCTTAG	TCCCCTATTG	CGTCCTTTCT
2151	ACATGTGAGC	AAAAGGCCAG	CAAAAGGCCA	GGAACCGTAA	AAAGGCCGCG
	TGTACACTCG	TTTTCCGGTC	GTTTTCCGGT	CCTTGGCATT	TTTCCGGCGC
2201	TTGCTGGCGT	TTTTCCATAG	GCTCCGCCCC	CCTGACGAGC	ATCACAAAAA
	AACGACCGCA	AAAAGGTATC	CGAGGCGGGG	GGAAGGCTCG	TAGTGTTTTT
2251	TCGACGCTCA	AGTCAGAGGT	GGCGAAACCC	GACAGGACTA	TAAAGATACC
	AGCTGCGAGT	TCAGTCTCCA	CCGCTTTGGG	CTGTCTTGAT	ATTTCTATGG
2301	AGGCGTTTCC	CCCTGGAAGC	TCCCTCGTGC	GCTCTCCTGT	TCCGACCCTG
	TCCGCAAAGG	GGGACCTTCG	AGGGAGCACG	CGAGAGGACA	AGGCTGGGAC
2351	CCGCTTACCG	GATACCTGTC	CGCCTTTCTC	CCTTCGGGAA	GCGTGGCGCT
	GGCGAATGGC	CTATGGACAG	GCGGAAAGAG	GGAAGCCCTT	CGCACCGCGA
2401	TTCTCAATGC	TCACGCTGTA	GGTATCTCAG	TTCGGTGTAG	GTCGTTGCGT
	AAGAGTTACG	AGTGCACAT	CCATAGAGTC	AAGCCACATC	CAGCAAGCGA
2451	CCAAGCTGGG	CTGTGTGCAC	GAACCCCCCG	TTCAGCCCGA	CCGCTGCGCC
	GGTTCGACCC	GACACACGTG	CTTGGGGGGC	AAGTCGGGCT	GGCGACGCGG
2501	TTATCCGGTA	ACTATCGTCT	TGAGTCCAAC	CCGGTAAGAC	ACGACTTATC
	AATAGCCAT	TGATAGCAGA	ACTCAGGTTG	GGCCATTCTG	TGCTGAATAG
2551	GCCACTGGCA	GCAGCCACTG	GTAACAGGAT	TAGCAGAGCG	AGGTATGTAG
	CGGTGACCGT	CGTCGGTGAC	CATTGTCCTA	ATCGTCTCGC	TCCATACATC
2601	GCGGTGCTAC	AGAGTTCTTG	AAGTGGTGGC	CTAACTACGG	CTACACTAGA
	CGCCACGATG	TCTCAAGAAC	TTCACCACCG	GATTGATGCC	GATGTGATCT
2651	AGGACAGTAT	TTGGTATCTG	CGCTCTGCTG	AAGCCAGTTA	CCTTCGGAAA
	TCCTGTCATA	AACCATAGAC	GCGAGACGAC	TTCGGTCAAT	GGAAGCCTTT
2701	AAGAGTTGGT	AGCTCTTGAT	CCGGCAAACA	AACCACCGCT	GGTAGCGGTG
	TTCTCAACCA	TCGAGAACTA	GGCCGTTTGT	TTGGTGGCGA	CCATCGCCAC
2751	GTTTTTTTTGT	TTGCAAGCAG	CAGATTACGC	GCAGAAAAAA	AGGATCTCAA
	CAAAAAAACA	AACGTTTCGTC	GTCTAATGCG	CGTCTTTTTTT	TCCTAGAGTT
2801	GAAGATCCTT	TGATCTTTTC	TACGGGTGCT	GACGCTCAGT	GGAACGAAAA
	CTTCTAGGAA	ACTAGAAAAG	ATGCCCCAGA	CTGCGAGTCA	CCTTGCTTTT
2851	CTCACGTTAA	GGGATTTTGG	TCATGAGATT	ATCAAAAAGG	ATCTTCACCT
	GAGTGCAATT	CCCTAAAACC	AGTACTCTAA	TAGTTTTTCC	TAGAAGTGGA

pSAT1A-cEYFP-N1

2901 AGATCCTTTT AAATTA AAAA TGAAGTTTTA AATCAATCTA AAGTATATAT
TCTAGGAAAA TTTAATTTTT ACTTCAAAAAT TTAGTTAGAT TTCATATATA

2951 GAGTAAACTT GGTCTGACAG TTACCAATGC TTAATCAGTG AGGCACCTAT
CTCATTTGAA CCAGACTGTC AATGGTTACG AATTAGTCAC TCCGTGGATA

AMP

3001 CTCAGCGATC TGTCTATTTT GTTCATCCAT AGTTGCCTGA CTCCCCGTCG
GAGTCGCTAG ACAGATAAAG CAAGTAGGTA TCAACGGACT GAGGGGCAGC

AMP

3051 TG TAGATAAC TACGATACGG GAGGGCTTAC CATCTGGCCC CAGTGCTGCA
ACATCTATTG ATGCTATGCC CTCCCGAATG GTAGACCGGG GTCACGACGT

AMP

3101 ATGATACCGC GAGACCCACG CTCACCGGCT CCAGATTTAT CAGCAATAAA
TACTATGGCG CTCTGGGTGC GAGTGGCCGA GGTCTAAATA GTCGTTATTT

AMP

3151 CCAGCCAGCC GGAAGGGCCG AGCGCAGAAG TGGTCCTGCA ACTTTATCCG
GGTCGGTCGG CCTTCCCGGC TCGCGTCTTC ACCAGGACGT TGA AATAGGC

AMP

3201 CCTCCATCCA GTCTATTAAT TGTTGCCGGG AAGCTAGAGT AAGTAGTTCG
GGAGGTAGGT CAGATAATTA ACAACGGCCC TTCGATCTCA TTCATCAAGC

AMP

3251 CCAGTTAATA GTTTGCGCAA CGTTGTTGCC ATTGCTACAG GCATCGTGGT
GGTCAATTAT CAAACGCGTT GCAACAACGG TAACGATGTC CGTAGCACCA

AMP

3301 GTCACGCTCG TCGTTTGGTA TGGCTTCATT CAGCTCCGGT TCCCAACGAT
CAGTGCAGC AGCAAACCAT ACCGAAGTAA GTCGAGGCCA AGGGTTGCTA

AMP

3351 CAAGGCGAGT TACATGATCC CCCATGTTGT GCAAAAAAGC GGTTAGCTCC
GTTCGGCTCA ATGTA CTAGG GGGTACAACA CGTTTTTTTCG CCAATCGAGG

AMP

3401 TTCGGTCCTC CGATCGTTGT CAGAAGTAAG TTGGCCGCAG TGTTATCACT
AAGCCAGGAG GCTAGCAACA GTCTTCATTC AACC GGCGTC ACAATAGTGA

AMP

pSAT1A-cEYFP-N1

3451 CATGGTTATG GCAGCACTGC ATAATTCTCT TACTGTCATG CCATCCGTAA
 GTACCAATAC CGTCGTGACG TATTAAGAGA ATGACAGTAC GGTAGGCATT

AMP

3501 GATGCTTTTC TGTGACTGGT GAGTACTCAA CCAAGTCATT CTGAGAATAG
 CTACGAAAAG ACACTGACCA CTCATGAGTT GGTTCAGTAA GACTCTTATC

AMP

3551 TGTATGCGGC GACCGAGTTG CTCTTGCCCC GCGTCAATAC GGGATAATAC
 ACATACGCCG CTGGCTCAAC GAGAACGGGC CGCAGTTATG CCCTATTATG

AMP

3601 CGCGCCACAT AGCAGAACTT TAAAAGTGCT CATCATTGGA AAACGTTCTT
 GCGCGGTGTA TCGTCTTGAA ATTTTCACGA GTAGTAACCT TTTGCAAGAA

AMP

3651 CGGGGCGAAA ACTCTCAAGG ATCTTACCGC TGTTGAGATC CAGTTCGATG
 GCCCGCTTT TGAGAGTTCC TAGAATGGCG ACAACTCTAG GTCAAGCTAC

AMP

3701 TAACCCACTC GTGCACCCAA CTGATCTTCA GCATCTTTTA CTTTCACCAG
 ATTGGGTGAG CACGTGGGTT GACTAGAAGT CGTAGAAAAT GAAAGTGGTC

AMP

3751 CGTTTCTGGG TGAGCAAAAA CAGGAAGGCA AAATGCCGCA AAAAAGGGAA
 GCAAAGACCC ACTCGTTTTT GTCTTCCGT TTTACGGCGT TTTTTCCCTT

AMP

3801 TAAGGGCGAC ACGGAAATGT TGAATACTCA TACTCTTCCT TTTTCAATAT
 ATTCCCGCTG TGCCTTTACA ACTTATGAGT ATGAGAAGGA AAAAGTTATA

AMP

3851 TATTGAAGCA TTTATCAGGG TTATTGTCTC ATGAGCGGAT ACATATTTGA
 ATAACTTCGT AAATAGTCCC AATAACAGAG TACTCGCCTA TGTATAAACT

3901 ATGTATTTAG AAAAATAAAC AAATAGGGGT TCCGCGCACA TTTCCCCGAA
 TACATAAATC TTTTTATTTG TTTATCCCCA AGGCGCGTGT AAAGGGGCTT

3951 AAGTGCCACC TGACGTCTAA GAAACCATTA TTATCATGAC ATTAACCTAT
 TTCACGGTGG ACTGCAGATT CTTTGGTAAT AATAGTACTG TAATTGGATA

4001 AAAAATAGGC GTATCACGAG GCCCTTTCGT C
 TTTTTATCCG CATAGTGCTC CGGAAAGCA G