

pSAT4-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	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	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

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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 CAAGGTTGGT GCAGAAGTTT CGTTCACCTA ACTACACTAT

CaMV 35S promoter

751 ACATGGTGGG GCACGACACA CTTGTCTACT CCAAAAATAT CAAAGATACA
TGTACCACCT CGTGCTGTGT GAACAGATGA GGTTTTTATA GTTTCTATGT

Accl
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CaMV 35S promoter

801 GTCTCAGAAG ACCAAAGGGC AATTGAGACT TTTCAACAAA GGGTAATATC  
CAGAGTCTTC TGGTTTCCCG TTAACCTCTGA AAAGTTGTTT CCCATTATAG

BspEI  
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CaMV 35S promoter

851 CGGAAACCTC CTCGGATTCC ATTGCCCAGC TATCTGTCAC TTTATTGTGA
GCCTTTGGAG GAGCCTAAGG TAACGGGTCG ATAGACAGTG AAATAACACT

BspEI
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CaMV 35S promoter

901 AGATAGTGGA AAAGGAAGGT GGCTCCTACA AATGCCATCA TTGCGATAAA  
TCTATCACCT TTTCCCTCCA CCGAGGATGT TTACGGTAGT AACGCTATTT

CaMV 35S promoter

951 GGAAAGGCCA TCGTTGAAGA TGCCTCTGCC GACAGTGGTC CCAAAGATGG  
CCTTTCCGGT AGCAACTTCT ACGGAGACGG CTGTCACCAG GGTTTCTACC

CaMV 35S promoter

1001 ACCCCACCC ACGAGGAGCA TCGTGGAAAA AGAAGACGTT CCAACCACGT  
TGGGGTGGG TGCTCCTCGT AGCACCTTTT TCTTCTGCAA GGTTGGTGCA

CaMV 35S promoter

1051 CTTCAAAGCA AGTGGATTGA TGTGATATCT CCACTGACGT AAGGGATGAC  
GAAGTTTCGT TCACCTAACT AACTATAGA GGTGACTGCA TTCCCTACTG

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1101 GCACAATCCC ACTATCCTTC GCAAGACCCT TCCTCTATAT AAGGAAGTTC  
CGTGTTAGGG TGATAGGAAG CGTTCGGGA 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 ATTTCGTTTT CGTTAAAAGA CTTTTAAAAG TGGTAAATGC

MCS

translational enhancer 5'-UTR from tobacco

1301 AACGATAGCC ATGGTCCGGA CTCAGATCTC GAGCTCAAGC TTCGAATTCT  
TTGCTATCGG TACCAGGCCT GAGTCTAGAG CTCGAGTTCG AAGCTTAAGA

PstI

BamHI

cEYFP

MCS

1351 GCAGTCGACG GTACCGCGGG CCCGGGATCC TGGGCAGCGT GCAGCTCGCC  
CGTCAGCTGC CATGGCGCCC GGGCCCTAGG ACCCGTCGCA CGTCGAGCGG

cEYFP

1401 GACCACTACC AGCAGAACAC CCCCATCGGC GACGGCCCCG TGCTGCTGCC  
CTGGTGATGG TCGTCTTG TGTTAGCCG CTGCCGGGGC ACGACGACGG

cEYFP

1451 CGACAACCAC TACCTGAGCT ACCAGTCCGC CCTGAGCAA GACCCCAACG  
GCTGTTGGTG ATGGACTCGA TGGTCAGGCG GGACTCGTTT CTGGGGTTGC

cEYFP

1501 AGAAGCGCGA TCACATGGTC CTGCTGGAGT TCGTGACCGC CGCCGGGATC  
TCTTCGCGCT AGTGTACCAG GACGACCTCA AGCACTGGCG GCGGCCCTAG

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|      |                     |            |             |                    |             |
|------|---------------------|------------|-------------|--------------------|-------------|
|      | cEYFP               |            |             | CaMV 35S terminato |             |
|      |                     |            |             | XbaI               |             |
| 1551 | ACTCTCGGCA          | TGGACGAGCT | GTACAAGTGA  | AGATCCACCT         | AGTCTAGAGT  |
|      | TGAGAGCCGT          | ACCTGCTCGA | CATGTTCACT  | TCTAGGTGGA         | TCAGATCTCA  |
|      | CaMV 35S terminator |            |             |                    |             |
| 1601 | CCGCAAAAAT          | CACCAGTCTC | TCTCTACAAA  | TCTATCTCTC         | TCTATTTTTTC |
|      | GGCGTTTTTA          | GTGGTCAGAG | AGAGATGTTT  | AGATAGAGAG         | AGATAAAAAG  |
|      | CaMV 35S terminator |            |             |                    |             |
| 1651 | TCCAGAATAA          | TGTGTGAGTA | GTTCCCAGAT  | AAGGGAATTA         | GGGTTCTTAT  |
|      | AGGTCTTATT          | ACACACTCAT | CAAGGGTCTA  | TTCCCTTAAT         | CCCAAGAATA  |
|      | CaMV 35S terminator |            |             |                    |             |
| 1701 | AGGGTTTCGC          | TCATGTGTTG | AGCATATAAG  | AAACCCTTAG         | TATGTATTTG  |
|      | TCCCAAAGCG          | AGTACACAAC | TCGTATATTC  | TTTGGGAATC         | ATACATAAAC  |
|      | CaMV 35S terminator |            |             |                    |             |
| 1751 | TATTTGTAAA          | ATACTTCTAT | CAATAAAATT  | TCTAATTCCT         | AAAACCAAAA  |
|      | ATAAACATTT          | TATGAAGATA | GTTATTTTTAA | AGATTAAGGA         | TTTTGGTTTT  |
|      | CaMV 35S terminato  |            |             |                    |             |
|      |                     | NotI       |             |                    |             |
| 1801 | TCCAGTGACG          | CGGCCGCATT | ACCCTGTTAT  | CCCTAGTAAT         | CATGGTCATA  |
|      | AGGTCACTGC          | GCCGGCGTAA | TGGGACAATA  | GGGATCATT          | GTACCAGTAT  |
|      |                     | I-SceI     |             |                    |             |
| 1851 | GCTGTTTCCT          | GTGTGAAATT | GTTATCCGCT  | CACAATTCCA         | CACAACATAC  |
|      | CGACAAAGGA          | CACACTTTAA | CAATAGGCGA  | GTGTTAAGGT         | GTGTTGTATG  |
| 1901 | GAGCCGGAAG          | CATAAAGTGT | AAAGCCTGGG  | GTGCCTAATG         | AGTGAGCTAA  |
|      | CTCGGCCTTC          | GTATTTTACA | TTTCGGACCC  | CACGGATTAC         | TCACTCGATT  |
| 1951 | CTCACATTA           | TTGCGTTGCG | CTCACTGCCC  | GCTTTCCAGT         | CGGGAAACCT  |
|      | GAGTGTAATT          | AACGCAACGC | GAGTGACGGG  | CGAAAGGTCA         | GCCCTTTGGA  |
| 2001 | GTCGTGCCAG          | CTGCATTAAT | GAATCGGCCA  | ACGCGCGGGG         | AGAGGCGGTT  |
|      | CAGCACGGTC          | GACGTAATTA | CTTAGCCGGT  | TGCGCGCCCC         | TCTCCGCCAA  |
| 2051 | TGCGTATTGG          | GCGCTCTTCC | GCTTCCTCGC  | TCCTGACTC          | GCTGCGCTCG  |
|      | ACGCATAACC          | CGCGAGAAGG | CGAAGGAGCG  | AGTGACTGAG         | CGACGCGAGC  |
| 2101 | GTCGTTTCGGC         | TGCGGCGAGC | GGTATCAGCT  | CACTCAAAGG         | CGGTAATACG  |
|      | CAGCAAGCCG          | ACGCCGCTCG | CCATAGTCGA  | GTGAGTTTCC         | GCCATTATGC  |

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|      |             |             |             |             |             |
|------|-------------|-------------|-------------|-------------|-------------|
| 2151 | GTTATCCACA  | GAATCAGGGG  | ATAACGCAGG  | AAAGAACATG  | TGAGCAAAAAG |
|      | CAATAGGTGT  | CTTAGTCCCC  | TATTGCGTCC  | TTTCTTGTAC  | ACTCGTTTTTC |
| 2201 | GCCAGCAAAA  | GGCCAGGAAC  | CGTAAAAAAGG | CCGCGTTGCT  | GGCGTTTTTTC |
|      | CGGTCGTTTT  | CCGGTCCTTG  | GCATTTTTTCC | GGCGCAACGA  | CCGCAAAAAG  |
| 2251 | CATAGGCTCC  | GCCCCCCTGA  | CGAGCATCAC  | AAAAATCGAC  | GCTCAAGTCA  |
|      | GTATCCGAGG  | CGGGGGGACT  | GCTCGTAGTG  | TTTTTAGCTG  | CGAGTTCAGT  |
| 2301 | GAGGTGGCGA  | AACCCGACAG  | GACTATAAAG  | ATACCAGGCG  | TTTCCCCCTG  |
|      | CTCCACCGCT  | TTGGGCTGTC  | CTGATATTTT  | TATGGTCCGC  | AAAGGGGGAC  |
| 2351 | GAAGCTCCCT  | CGTGCGCTCT  | CCTGTTCCGA  | CCCTGCCGCT  | TACCGGATAAC |
|      | CTTCGAGGGA  | GCACGCGAGA  | GGACAAGGCT  | GGGACGGCGA  | ATGGCCTATG  |
| 2401 | CTGTCCGCCCT | TTCTCCCTTC  | GGGAAGCGTG  | GCGCTTTCTC  | AATGCTCACG  |
|      | GACAGGCGGA  | AAGAGGGAAG  | CCCTTCGCAC  | CGCGAAAGAG  | TTACGAGTGC  |
| 2451 | CTGTAGGTAT  | CTCAGTTCGG  | TGTAGGTCGT  | TCGCTCCAAG  | CTGGGCTGTG  |
|      | GACATCCATA  | GAGTCAAGCC  | ACATCCAGCA  | AGCGAGGTTC  | GACCCGACAC  |
| 2501 | TGCACGAACC  | CCCCGTTTCAG | CCCAGCCGCT  | GCGCCTTATC  | CGGTAACATAT |
|      | ACGTGCTTGG  | GGGGCAAGTC  | GGGCTGGCGA  | CGCGGAATAG  | GCCATTGATA  |
| 2551 | CGTCTTGAGT  | CCAACCCGGT  | AAGACACGAC  | TTATCGCCAC  | TGGCAGCAGC  |
|      | GCAGAACTCA  | GGTTGGGCCA  | TTCTGTGCTG  | AATAGCGGTG  | ACCGTCGTCG  |
| 2601 | CACTGGTAAC  | AGGATTAGCA  | GAGCGAGGTA  | TGTAGGCGGT  | GCTACAGAGT  |
|      | GTGACCATTG  | TCCTAATCGT  | CTCGCTCCAT  | ACATCCGCCA  | CGATGTCTCA  |
| 2651 | TCTTGAAGTG  | GTGGCCTAAC  | TACGGCTACA  | CTAGAAGGAC  | AGTATTTGGT  |
|      | AGAACTTCAC  | CACCGGATTG  | ATGCCGATGT  | GATCTTCCTG  | TCATAAACCA  |
| 2701 | ATCTGCGCTC  | TGCTGAAGCC  | AGTTACCTTC  | GGAAAAAGAG  | TTGGTAGCTC  |
|      | TAGACGCGAG  | ACGACTTCGG  | TCAATGGAAG  | CCTTTTTTCTC | AACCATCGAG  |
| 2751 | TTGATCCGGC  | AAACAAACCA  | CCGCTGGTAG  | CGGTGGTTTT  | TTTGTTTGCA  |
|      | AACTAGGCCG  | TTTGTTTGGT  | GGCGACCATC  | GCCACCAAAA  | AAACAAACGT  |
| 2801 | AGCAGCAGAT  | TACGCGCAGA  | AAAAAAGGAT  | CTCAAGAAGA  | TCCTTTGATC  |
|      | TCGTCGTCTA  | ATGCGCGTCT  | TTTTTTCCCTA | GAGTTCCTCT  | AGGAAACTAG  |
| 2851 | TTTTCTACGG  | GGTCTGACGC  | TCAGTGGAAC  | GAAAACCTCAC | GTTAAGGGAT  |
|      | AAAAGATGCC  | CCAGACTGCG  | AGTCACCTTG  | CTTTTGAGTG  | CAATTCCTTA  |
| 2901 | TTTGGTCATG  | AGATTATCAA  | AAAGGATCTT  | CACCTAGATC  | CTTTTAAATT  |
|      | AAACCAGTAC  | TCTAATAGTT  | TTTCCTAGAA  | GTGGATCTAG  | GAAAATTTAA  |

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2951 AAAAAATGAAG TTTTAAATCA ATCTAAAGTA TATATGAGTA AACTTGGTCT  
TTTTTACTTC AAAATTTAGT TAGATTTTCAT ATATACTCAT TTGAACCAGA

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3001 GACAGTTACC AATGCCTTAAT CAGTGAGGCA CCTATCTCAG CGATCTGTCT  
CTGTCAATGG TTACGAATTA GTCACTCCGT GGATAGAGTC GCTAGACAGA

AMP

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3051 ATTTTCGTTCA TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACTACGA  
TAAAGCAAGT AGGTATCAAC GGACTGAGGG GCAGCACATC TATTGATGCT

AMP

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3101 TACGGGAGGG CTTACCATCT GGCCCCAGTG CTGCAATGAT ACCGCGAGAC  
ATGCCCTCCC GAATGGTAGA CCGGGGTCAC GACGTTACTA TGGCGCTCTG

AMP

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3151 CCACGCTCAC CGGCTCCAGA TTTATCAGCA ATAAACCAGC CAGCCGGAAG  
GGTGCAGTG GCCGAGTCT AAATAGTCGT TATTTGGTCG GTCGGCCTTC

AMP

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3201 GGCCGAGCGC AGAAGTGGTC CTGCAACTTT ATCCGCCTCC ATCCAGTCTA  
CCGGCTCGCG TCTTACCAG GACGTTGAAA TAGGCGGAGG TAGGTCAGAT

AMP

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3251 TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG  
AATTAACAAC GGCCCTTCGA TCTCATTCAT CAAGCGGTCA ATTATCAAAC

AMP

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3301 CGCAACGTTG TTGCCATTGC TACAGGCATC GTGGTGTAC GCTCGTCGTT  
GCGTTGCAAC AACGGTAACG ATGTCCGTAG CACCACAGTG CGAGCAGCAA

AMP

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3351 TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATCAAGG CGAGTTACAT  
ACCATACCGA AGTAAGTCGA GGCCAAGGGT TGCTAGTTCC GCTCAATGTA

AMP

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3401 GATCCCCCAT GTTGTGCAAA AAAGCGGTTA GCTCCTTCGG TCCTCCGATC  
CTAGGGGGTA CAACACGTTT TTTCGCCAAT CGAGGAAGCC AGGAGGCTAG

AMP

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3451 GTTGTGAGAA GTAAGTTGGC CGCAGTGTTA TCACTCATGG TTATGGCAGC  
CAACAGTCTT CATTCAACCG GCGTCACAAT AGTGAGTACC AATACCGTCC

AMP

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3501 ACTGCATAAT TCTCTTACTG TCATGCCATC CGTAAGATGC TTTTCTGTGA  
 TGACGTATTA AGAGAATGAC AGTACGGTAG GCATTCTACG AAAAGACACT

AMP

3551 CTGGTGAGTA CTCAACCAAG TCATTCTGAG AATAGTGTAT GCGGCGACCG  
 GACCACTCAT GAGTTGGTTC AGTAAGACTC TTATCACATA CGCCGCTGGC

AMP

3601 AGTTGCTCTT GCCCGGCGTC AATACGGGAT AATACCGCGC CACATAGCAG  
 TCAACGAGAA CGGGCCGCAG TTATGCCCTA TTATGGCGCG GTGTATCGTC

AMP

3651 AACTTTAAAA GTGCTCATCA TTGGAAAACG TTCTTCGGGG CGAAAACCTCT  
 TTGAAATTTT CACGAGTAGT AACCTTTTGC AAGAAGCCCC GCTTTTGAGA

AMP

3701 CAAGGATCTT ACCGCTGTTG AGATCCAGTT CGATGTAACC CACTCGTGCA  
 GTTCCTAGAA TGGCGACAAC TCTAGGTCAA GCTACATTGG GTGAGCACGT

AMP

3751 CCCAACTGAT CTTCAGCATC TTTTACTTTC ACCAGCGTTT CTGGGTGAGC  
 GGGTTGACTA GAAGTCGTAG AAAATGAAAG TGGTCGCAAA GACCCACTCG

AMP

3801 AAAAACAGGA AGGCAAAATG CCGCAAAAAA GGAATAAAGG GCGACACGGA  
 TTTTTGTCCT TCCGTTTTAC GGCCTTTTTT CCCTTATTCC CGCTGTGCCT

AMP

3851 AATGTTGAAT ACTCATACTC TTCCTTTTTT AATATTATTG AAGCATTAT  
 TTACAACCTA TGAGTATGAG AAGGAAAAAG TTATAATAAC TTCGTAAATA

AMP

3901 CAGGGTTATT GTCTCATGAG CGGATACATA TTTGAATGTA TTTAGAAAAA  
 GTCCCAATAA CAGAGTACTC GCCTATGTAT AAACCTACAT AAATCTTTTT

3951 TAAACAAATA GGGGTTCCGC GCACATTTCC CCGAAAAGTG CCACCTGACG  
 ATTTGTTTAT CCCCAAGGCG CGTGTAAGG GGCTTTTTCAC GGTGGACTGC

4001 TCTAAGAAAC CATTATTATC ATGACATTAA CCTATAAAAA TAGGCGTATC  
 AGATTCTTTG GTAATAATAG TACTGTAATT GGATATTTTT ATCCGCATAG

4051 ACGAGGCCCT TTCGTC  
 TGCTCCGGGA AAGCAG