pSAT1A-nEYFP-N1

```
   1  TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG
      AGCGCGCAAA GCCACTACTG CCACTTTTGG AGACTGTGTA CGTCGAGGGC

  51  GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG
      CTCTGCCAGT GTCGAACAGA CATTCGCCTA CGGCCCTCGT CTGTTCGGGC

 101  TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG
      AGTCCCGCGC AGTCGCCCAC AACCGCCCAC AGCCCCGACC GAATTGATAC

 151  CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA
      GCCGTAGTCT CGTCTAACAT GACTCTCACG TGGTATACGC CACACTTTAT

 201  CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGCGCC ATTCGCCATT
      GGCGTGTCTA CGCATTCCTC TTTTATGGCG TAGTCCGCGG TAAGCGGTAA

 251  CAGGCTGCGC AACTGTTGGG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT
      GTCCGACGCG TTGACAACCC TTCCCGCTAG CCACGCCCGG AGAAGCGATA

 301  TACGCCAGCT GGCGAAAGGG GGATGTGCTG CAAGGCGATT AAGTTGGGTA
      ATGCGGTCGA CCGCTTTCCC CCTACACGAC GTTCCGCTAA TTCAACCCAT

                                                        AscI
 351  ACGCCAGGGT TTTCCCAGTC ACGACGTTGT AAAACGACGG CCAGTGCCGG
      TGCGGTCCCA AAAGGGTCAG TGCTGCAACA TTTTGCTGCC GGTCACGGCC

      AscI                    CaMV 35S promoter
          AgeI                                AccI
 401  CGCGCCACCG GTCAACATGT GGAGCACGAC ACACTTGTCT ACTCCAAAAA
      GCGCGGTGGC CAGTTGTACA CCTCGTGCTG TGTGAACAGA TGAGGTTTTT

      CaMV 35S promoter
 451  TATCAAAGAT ACAGTCTCAG AAGACCAAAG GGCAATTGAG ACTTTTCAAC
      ATAGTTTCTA TGTCAGAGTC TTCTGGTTTC CCGTTAACTC TGAAAAGTTG

      CaMV 35S promoter
              BspEI
 501  AAAGGGTAAT ATCCGGAAAC CTCCTCGGAT TCCATTGCCC AGCTATCTGT
      TTTCCCATTA TAGGCCTTTG GAGGAGCCTA AGGTAACGGG TCGATAGACA

      CaMV 35S promoter
 551  CACTTTATTG TGAAGATAGT GGAAAAGGAA GGTGGCTCCT ACAAATGCCA
      GTGAAATAAC ACTTCTATCA CCTTTTCCTT CCACCGAGGA TGTTTACGGT
```

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 GGGTGCTCCT CGTAGCACCT TTTTCTTCTG
```

CaMV 35S promote

CaMV 35S promoter

```
701   GTTCCAACCA CGTCTTCAAA GCAAGTGGAT TGATGTGATA ACATGGTGGA
      CAAGGTTGGT GCAGAAGTTT CGTTCACCTA ACTACACTAT TGTACCACCT
```

CaMV 35S promoter

AccI

```
751   GCACGACACA CTTGTCTACT CCAAAAATAT CAAAGATACA GTCTCAGAAG
      CGTGCTGTGT GAACAGATGA GGTTTTTATA GTTTCTATGT CAGAGTCTTC
```

CaMV 35S promoter

BspEI

```
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
      TCACCTAACT ACACTATAGA GGTGACTGCA TTCCCTACTG CGTGTTAGGG
```

```
1101  ACTATCCTTC GCAAGACCCT TCCTCTATAT AAGGAAGTTC ATTTCATTTG
      TGATAGGAAG CGTTCTGGGA 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
      GTTCGTTAGT TCGTAAGATG AAGATAACGT CGTTAAATTT AGTAAAGAAA
```

MCS

translational enhancer 5'-UTR from tobacco

BglII

```
1251  TAAAGCAAAA GCAATTTTCT GAAAATTTTC ACCATTTACG AACGATAGAG
      ATTTCGTTTT CGTTAAAAGA CTTTTAAAAG TGGTAAATGC TTGCTATCTC
```

MCS

PstI

SmaI

SacI

KpnI

XmaI

XhoI

SalI

BglII

HindIII

EcoRI

AccI

SacII

BamHI

```
1301  ATCTCGAGCT CAAGCTTCGA ATTCTGCAGT CGACGGTACC GCGGGCCCGG
      TAGAGCTCGA GTTCGAAGCT TAAGACGTCA GCTGCCATGG CGCCCGGGCC
```

BamHI

nEYFP

MCS

Xma

Sma

```
1351  GATCCTGATG GTGAGCAAGG GCGAGGAGCT GTTCACCGGG GTGGTGCCCA
      CTAGGACTAC CACTCGTTCC CGCTCCTCGA CAAGTGGCCC CACCACGGGT
```

nEYFP

```
1401  TCCTGGTCGA GCTGGACGGC GACGTAAACG GCCACAAGTT CAGCGTGTCC
      AGGACCAGCT CGACCTGCCG CTGCATTTGC CGGTGTTCAA GTCGCACAGG
```

nEYFP

```
1451  GGCGAGGGCG AGGGCGATGC CACCTACGGC AAGCTGACCC TGAAGTTCAT
      CCGCTCCCGC TCCCGCTACG GTGGATGCCG TTCGACTGGG ACTTCAAGTA
```

nEYFP

```
1501  CTGCACCACC GGCAAGCTGC CCGTGCCCTG GCCCACCCTC GTGACCACCT
      GACGTGGTGG CCGTTCGACG GGCACGGGAC CGGGTGGGAG CACTGGTGGA
```

nEYFP

PstI

```
1551  TCGGCTACGG CCTGCAGTGC TTCGCCCGCT ACCCCGACCA CATGAAGCAG
      AGCCGATGCC GGACGTCACG AAGCGGGCGA TGGGGCTGGT GTACTTCGTC
```

nEYFP

```
1601  CACGACTTCT TCAAGTCCGC CATGCCCGAA GGCTACGTCC AGGAGCGCAC
      GTGCTGAAGA AGTTCAGGCG GTACGGGCTT CCGATGCAGG TCCTCGCGTG
```

nEYFP

```
1651  CATCTTCTTC AAGGACGACG GCAACTACAA GACCCGCGCC GAGGTGAAGT
      GTAGAAGAAG TTCCTGCTGC CGTTGATGTT CTGGGCGCGG CTCCACTTCA
```

nEYFP

```
1701  TCGAGGGCGA CACCCTGGTG AACCGCATCG AGCTGAAGGG CATCGACTTC
      AGCTCCCGCT GTGGGACCAC TTGGCGTAGC TCGACTTCCC GTAGCTGAAG
```

nEYFP

```
1751  AAGGAGGACG GCAACATCCT GGGGCACAAG CTGGAGTACA ACTACAACAG
      TTCCTCCTGC CGTTGTAGGA CCCCGTGTTC GACCTCATGT TGATGTTGTC
```

nEYFP

```
1801  CCACAACGTC TATATCATGG CCGACAAGCA GAAGAACGGC ATCAAGGTGA
      GGTGTTGCAG ATATAGTACC GGCTGTTCGT CTTCTTGCCG TAGTTCCACT
```

nEYFP

XbaI

```
1851  ACTTCAAGAT CCGCCACAAC ATCGAGGACT GAAGATCCAC CTAGTCTAGA
      TGAAGTTCTA GGCGGTGTTG TAGCTCCTGA CTTCTAGGTG GATCAGATCT
```

CaMV 35S terminator

```
1901  GTCCGCAAAA ATCACCAGTC TCTCTCTACA AATCTATCTC TCTCTATTTT
      CAGGCGTTTT TAGTGGTCAG AGAGAGATGT TTAGATAGAG AGAGATAAAA
```

CaMV 35S terminator

```
1951  TCTCCAGAAT AATGTGTGAG TAGTTCCCAG ATAAGGGAAT TAGGGTTCTT
      AGAGGTCTTA TTACACACTC ATCAAGGGTC TATTCCCTTA ATCCCAAGAA
```

CaMV 35S terminator

2001 ATAGGGTTTC GCTCATGTGT TGAGCATATA AGAAACCCTT AGTATGTATT
TATCCCAAAG CGAGTACACA ACTCGTATAT TCTTTGGGAA TCATACATAA

CaMV 35S terminator

2051 TGTATTTGTA AAATACTTCT ATCAATAAAA TTTCTAATTC CTAAAACCAA
ACATAAACAT TTTATGAAGA TAGTTATTTT AAAGATTAAG GATTTTGGTT

CaMV 35S terminator SacII AscI NotI

2101 AATCCAGTGA CGCGGCCGCG GCGCGCCGTA ATCATGGTCA TAGCTGTTTC
TTAGGTCACT GCGCCGGCGC CGCGCGGCAT TAGTACCAGT ATCGACAAAG

2151 CTGTGTGAAA TTGTTATCCG CTCACAATTC CACACAACAT ACGAGCCGGA
GACACACTTT AACAATAGGC GAGTGTTAAG GTGTGTTGTA TGCTCGGCCT

2201 AGCATAAAGT GTAAAGCCTG GGGTGCCTAA TGAGTGAGCT AACTCACATT
TCGTATTTCA CATTTCGGAC CCCACGGATT ACTCACTCGA TTGAGTGTAA

2251 AATTGCGTTG CGCTCACTGC CCGCTTTCCA GTCGGGAAAC CTGTCGTGCC
TTAACGCAAC GCGAGTGACG GGCGAAAGGT CAGCCCTTTG GACAGCACGG

2301 AGCTGCATTA ATGAATCGGC CAACGCGCGG GGAGAGGCGG TTTGCGTATT
TCGACGTAAT TACTTAGCCG GTTGCGCGCC CCTCTCCGCC AAACGCATAA

2351 GGGCGCTCTT CCGCTTCCTC GCTCACTGAC TCGCTGCGCT CGGTCGTTCG
CCCGCGAGAA GGCGAAGGAG CGAGTGACTG AGCGACGCGA GCCAGCAAGC

2401 GCTGCGGCGA GCGGTATCAG CTCACTCAAA GGCGGTAATA CGGTTATCCA
CGACGCCGCT CGCCATAGTC GAGTGAGTTT CCGCCATTAT GCCAATAGGT

2451 CAGAATCAGG GGATAACGCA GGAAAGAACA TGTGAGCAAA AGGCCAGCAA
GTCTTAGTCC CCTATTGCGT CCTTTCTTGT ACACTCGTTT TCCGGTCGTT

2501 AAGGCCAGGA ACCGTAAAAA GGCCGCGTTG CTGGCGTTTT TCCATAGGCT
TTCCGGTCCT TGGCATTTTT CCGGCGCAAC GACCGCAAAA AGGTATCCGA

2551 CCGCCCCCCT GACGAGCATC ACAAAAATCG ACGCTCAAGT CAGAGGTGGC
GGCGGGGGGA CTGCTCGTAG TGTTTTTAGC TGCGAGTTCA GTCTCCACCG

2601 GAAACCCGAC AGGACTATAA AGATACCAGG CGTTTCCCCC TGGAAGCTCC
CTTTGGGCTG TCCTGATATT TCTATGGTCC GCAAAGGGGG ACCTTCGAGG

2651 CTCGTGCGCT CTCCTGTTCC GACCCTGCCG CTTACCGGAT ACCTGTCCGC
GAGCACGCGA GAGGACAAGG CTGGGACGGC GAATGGCCTA TGGACAGGCG

```
2701  CTTTCTCCCT TCGGGAAGCG TGGCGCTTTC TCAATGCTCA CGCTGTAGGT
      GAAAGAGGGA AGCCCTTCGC ACCGCGAAAG AGTTACGAGT GCGACATCCA

2751  ATCTCAGTTC GGTGTAGGTC GTTCGCTCCA AGCTGGGCTG TGTGCACGAA
      TAGAGTCAAG CCACATCCAG CAAGCGAGGT TCGACCCGAC ACACGTGCTT

2801  CCCCCCGTTC AGCCCGACCG CTGCGCCTTA TCCGGTAACT ATCGTCTTGA
      GGGGGGCAAG TCGGGCTGGC GACGCGGAAT AGGCCATTGA TAGCAGAACT

2851  GTCCAACCCG GTAAGACACG ACTTATCGCC ACTGGCAGCA GCCACTGGTA
      CAGGTTGGGC CATTCTGTGC TGAATAGCGG TGACCGTCGT CGGTGACCAT

2901  ACAGGATTAG CAGAGCGAGG TATGTAGGCG GTGCTACAGA GTTCTTGAAG
      TGTCCTAATC GTCTCGCTCC ATACATCCGC CACGATGTCT CAAGAACTTC

2951  TGGTGGCCTA ACTACGGCTA CACTAGAAGG ACAGTATTTG GTATCTGCGC
      ACCACCGGAT TGATGCCGAT GTGATCTTCC TGTCATAAAC CATAGACGCG

3001  TCTGCTGAAG CCAGTTACCT TCGGAAAAAG AGTTGGTAGC TCTTGATCCG
      AGACGACTTC GGTCAATGGA AGCCTTTTTC TCAACCATCG AGAACTAGGC

3051  GCAAACAAAC CACCGCTGGT AGCGGTGGTT TTTTTGTTTG CAAGCAGCAG
      CGTTTGTTTG GTGGCGACCA TCGCCACCAA AAAAACAAAC GTTCGTCGTC

3101  ATTACGCGCA GAAAAAAAGG ATCTCAAGAA GATCCTTTGA TCTTTTCTAC
      TAATGCGCGT CTTTTTTTCC TAGAGTTCTT CTAGGAAACT AGAAAAGATG

3151  GGGGTCTGAC GCTCAGTGGA ACGAAAACTC ACGTTAAGGG ATTTTGGTCA
      CCCCAGACTG CGAGTCACCT TGCTTTTGAG TGCAATTCCC TAAAACCAGT

3201  TGAGATTATC AAAAAGGATC TTCACCTAGA TCCTTTTAAA TTAAAAATGA
      ACTCTAATAG TTTTTCCTAG AAGTGGATCT AGGAAAATTT AATTTTTACT

3251  AGTTTTAAAT CAATCTAAAG TATATATGAG TAAACTTGGT CTGACAGTTA
      TCAAAATTTA GTTAGATTTC ATATATACTC ATTTGAACCA GACTGTCAAT
                                                      AMP

3301  CCAATGCTTA ATCAGTGAGG CACCTATCTC AGCGATCTGT CTATTTCGTT
      GGTTACGAAT TAGTCACTCC GTGGATAGAG TCGCTAGACA GATAAAGCAA
                                  AMP

3351  CATCCATAGT TGCCTGACTC CCCGTCGTGT AGATAACTAC GATACGGGAG
      GTAGGTATCA ACGGACTGAG GGGCAGCACA TCTATTGATG CTATGCCCTC
                                  AMP
```

```
3401  GGCTTACCAT CTGGCCCCAG TGCTGCAATG ATACCGCGAG ACCCACGCTC
      CCGAATGGTA GACCGGGGTC ACGACGTTAC TATGGCGCTC TGGGTGCGAG
                                  AMP
3451  ACCGGCTCCA GATTTATCAG CAATAAACCA GCCAGCCGGA AGGGCCGAGC
      TGGCCGAGGT CTAAATAGTC GTTATTTGGT CGGTCGGCCT TCCCGGCTCG
                                  AMP
3501  GCAGAAGTGG TCCTGCAACT TTATCCGCCT CCATCCAGTC TATTAATTGT
      CGTCTTCACC AGGACGTTGA AATAGGCGGA GGTAGGTCAG ATAATTAACA
                                  AMP
3551  TGCCGGGAAG CTAGAGTAAG TAGTTCGCCA GTTAATAGTT TGCGCAACGT
      ACGGCCCTTC GATCTCATTC ATCAAGCGGT CAATTATCAA ACGCGTTGCA
                                  AMP
3601  TGTTGCCATT GCTACAGGCA TCGTGGTGTC ACGCTCGTCG TTTGGTATGG
      ACAACGGTAA CGATGTCCGT AGCACCACAG TGCGAGCAGC AAACCATACC
                                  AMP
3651  CTTCATTCAG CTCCGGTTCC CAACGATCAA GGCGAGTTAC ATGATCCCCC
      GAAGTAAGTC GAGGCCAAGG GTTGCTAGTT CCGCTCAATG TACTAGGGGG
                                  AMP
3701  ATGTTGTGCA AAAAAGCGGT TAGCTCCTTC GGTCCTCCGA TCGTTGTCAG
      TACAACACGT TTTTTCGCCA ATCGAGGAAG CCAGGAGGCT AGCAACAGTC
                                  AMP
3751  AAGTAAGTTG GCCGCAGTGT TATCACTCAT GGTTATGGCA GCACTGCATA
      TTCATTCAAC CGGCGTCACA ATAGTGAGTA CCAATACCGT CGTGACGTAT
                                  AMP
3801  ATTCTCTTAC TGTCATGCCA TCCGTAAGAT GCTTTTCTGT GACTGGTGAG
      TAAGAGAATG ACAGTACGGT AGGCATTCTA CGAAAAGACA CTGACCACTC
                                  AMP
3851  TACTCAACCA AGTCATTCTG AGAATAGTGT ATGCGGCGAC CGAGTTGCTC
      ATGAGTTGGT TCAGTAAGAC TCTTATCACA TACGCCGCTG GCTCAACGAG
                                  AMP
3901  TTGCCCGGCG TCAATACGGG ATAATACCGC GCCACATAGC AGAACTTTAA
      AACGGGCCGC AGTTATGCCC TATTATGGCG CGGTGTATCG TCTTGAAATT
                                  AMP
```

```
3951  AAGTGCTCAT CATTGGAAAA CGTTCTTCGG GGCGAAAACT CTCAAGGATC
      TTCACGAGTA GTAACCTTTT GCAAGAAGCC CCGCTTTTGA GAGTTCCTAG
                                  AMP
4001  TTACCGCTGT TGAGATCCAG TTCGATGTAA CCCACTCGTG CACCCAACTG
      AATGGCGACA ACTCTAGGTC AAGCTACATT GGGTGAGCAC GTGGGTTGAC
                                  AMP
4051  ATCTTCAGCA TCTTTTACTT TCACCAGCGT TTCTGGGTGA GCAAAAACAG
      TAGAAGTCGT AGAAAATGAA AGTGGTCGCA AAGACCCACT CGTTTTTGTC
                                  AMP
4101  GAAGGCAAAA TGCCGCAAAA AAGGGAATAA GGGCGACACG GAAATGTTGA
      CTTCCGTTTT ACGGCGTTTT TTCCCTTATT CCCGCTGTGC CTTTACAACT
                                  AMP
4151  ATACTCATAC TCTTCCTTTT TCAATATTAT TGAAGCATTT ATCAGGGTTA
      TATGAGTATG AGAAGGAAAA AGTTATAATA ACTTCGTAAA TAGTCCCAAT
        AMP
4201  TTGTCTCATG AGCGGATACA TATTTGAATG TATTTAGAAA AATAAACAAA
      AACAGAGTAC TCGCCTATGT ATAAACTTAC ATAAATCTTT TTATTTGTTT
4251  TAGGGGTTCC GCGCACATTT CCCCGAAAAG TGCCACCTGA CGTCTAAGAA
      ATCCCCAAGG CGCGTGTAAA GGGGCTTTTC ACGGTGGACT GCAGATTCTT
4301  ACCATTATTA TCATGACATT AACCTATAAA AATAGGCGTA TCACGAGGCC
      TGGTAATAAT AGTACTGTAA TTGGATATTT TTATCCGCAT AGTGCTCCGG
4351  CTTTCGTC
      GAAAGCAG
```