# pET 28.2 TAT-Cre Vector

Dowdy Lab, UCSD (J. Wadia)

```
                                  NcoI                TAT                    NdeI         T7 tag                          BamHI     EcoRI  CRE
  +1                                   M  G  R  K  K  R  R  Q  R  R  R  G  H  M  A  S  M  T  G  G  Q  Q  M  G  R  D  P  N  S  M
5041  TTTTGTTTAA CTTTAAGAAG GAGATATACC ATGGGCAGGA AGAAGCGGAG ACAGCGACGA AGAGGCCATA TGGCTAGCAT GACTGGTGGA CAGCAAATGG GTCGGGATCC GAATTCCATG
      AAAACAAATT GAAATTCTTC CTCTATATGG TACCCGTCCT TCTTCGCCTC TGTCGCTGCT TCTCCGGTAT ACCGATCGTA CTGACCACCT GTCGTTTACC CAGCCCTAGG CTTAAGGTAC

                                                    CRE
                                           AgeI
  +1  S  N  L  L  T  V  H  Q  N  L  P  A  L  P  V  D  A  T  S  D  E  V  R  K  N  L  M  D  M  F  R  D  R  Q  A  F  S  E  H  T
5161  TCCAATTTAC TGACCGTACA CCAAAATTTG CCTGCATTAC CGGTCGATGC AACGAGTGAT GAGGTTCGCA AGAACCTGAT GGACATGTTC AGGGATCGCC AGGCGTTTTC TGAGCATACC
      AGGTTAAATG ACTGGCATGT GGTTTTAAAC GGACGTAATG GCCAGCTACG TTGCTCACTA CTCCAAGCGT TCTTGGACTA CCTGTACAAG TCCCTAGCGG TCCGCAAAAG ACTCGTATGG

                                                    CRE
  +1  W  K  M  L  L  S  V  C  R  S  W  A  A  W  C  K  L  N  N  R  K  W  F  P  A  E  P  E  D  V  R  D  Y  L  L  Y  L  Q  A  R
5281  TGGAAAATGC TTCTGTCCGT TTGCCGGTCG TGGGCGGCAT GGTGCAAGTT GAATAACCGG AAATGGTTTC CCGCAGAACC TGAAGATGTT CGCGATTATC TTCTATATCT TCAGGCGCGC
      ACCTTTTACG AAGACAGGCA AACGGCCAGC ACCCGCCGTA CCACGTTCAA CTTATTGGCC TTTACCAAAG GGCGTCTTGG ACTTCTACAA GCGCTAATAG AAGATATAGA AGTCCGCGCG

                                                    CRE
                                                                                                                              BamHI
  +1  G  L  A  V  K  T  I  Q  Q  H  L  G  Q  L  N  M  L  H  R  R  S  G  L  P  R  P  S  D  S  N  A  V  S  L  V  M  R  R  I  R
5401  GGTCTGGCAG TAAAAACTAT CCAGCAACAT TTGGGCCAGC TAAACATGCT TCATCGTCGG TCCGGGCTGC CACGACCAAG TGACAGCAAT GCTGTTTCAC TGGTTATGCG GCGGATCCGA
      CCAGACCGTC ATTTTTGATA GGTCGTTGTA AACCCGGTCG ATTTGTACGA AGTAGCAGCC AGGCCCGACG GTGCTGGTTC ACTGTCGTTA CGACAAAGTG ACCAATACGC CGCCTAGGCT

                                                    CRE
  +1  K  E  N  V  D  A  G  E  R  A  K  Q  A  L  A  F  E  R  T  D  F  D  Q  V  R  S  L  M  E  N  S  D  R  C  Q  D  I  R  N  L
5521  AAAGAAAACG TTGATGCCGG TGAACGTGCA AAACAGGCTC TAGCGTTCGA ACGCACTGAT TTCGACCAGG TTCGTTCACT CATGGAAAAT AGCGATCGCT GCCAGGATAT ACGTAATCTG
      TTTCTTTTGC AACTACGGCC ACTTGCACGT TTTGTCCGAG ATCGCAAGCT TGCGTGACTA AAGCTGGTCC AAGCAAGTGA GTACCTTTTA TCGCTAGCGA CGGTCCTATA TGCATTAGAC

                                                    CRE
  +1  A  F  L  G  I  A  Y  N  T  L  L  R  I  A  E  I  A  R  I  R  V  K  D  I  S  R  T  D  G  G  R  M  L  I  H  I  G  R  T  K
5641  GCATTTCTGG GGATTGCTTA TAACACCCTG TTACGTATAG CCGAAATTGC CAGGATCAGG GTTAAAGATA TCTCACGTAC TGACGGTGGG AGAATGTTAA TCCATATTGG CAGAACGAAA
      CGTAAAGACC CCTAACGAAT ATTGTGGGAC AATGCATATC GGCTTTAACG GTCCTAGTCC CAATTTCTAT AGAGTGCATG ACTGCCACCC TCTTACAATT AGGTATAACC GTCTTGCTTT

                                                    CRE
  +1  T  L  V  S  T  A  G  V  E  K  A  L  S  L  G  V  T  K  L  V  E  R  W  I  S  V  S  G  V  A  D  D  P  N  N  Y  L  F  C  R
5761  ACGCTGGTTA GCACCGCAGG TGTAGAGAAG GCACTTAGCC TGGGGGTAAC TAAACTGGTC GAGCGATGGA TTTCCGTCTC TGGTGTAGCT GATGATCCGA ATAACTACCT GTTTTGCCGG
      TGCGACCAAT CGTGGCGTCC ACATCTCTTC CGTGAATCGG ACCCCCATTG ATTTGACCAG CTCGCTACCT AAAGGCAGAG ACCACATCGA CTACTAGGCT TATTGATGGA CAAAACGGCC

                                                    CRE
  +1  V  R  K  N  G  V  A  A  P  S  A  T  S  Q  L  S  T  R  A  L  E  G  I  F  E  A  T  H  R  L  I  Y  G  A  K  D  D  S  G  Q
5881  GTCAGAAAAA ATGGTGTTGC CGCGCCATCT GCCACCAGCC AGCTATCAAC TCGCGCCCTG GAAGGGATTT TTGAAGCAAC TCATCGATTG ATTTACGGCG CTAAGGATGA CTCTGGTCAG
      CAGTCTTTTT TACCACAACG GCGCGGTAGA CGGTGGTCGG TCGATAGTTG AGCGCGGGAC CTTCCCTAAA AACTTCGTTG AGTAGCTAAC TAAATGCCGC GATTCCTACT GAGACCAGTC

                                                    CRE
  +1  R  Y  L  A  W  S  G  H  S  A  R  V  G  A  A  R  D  M  A  R  A  G  V  S  I  P  E  I  M  Q  A  G  G  W  T  N  V  N  I  V
6001  AGATACCTGG CCTGGTCTGG ACACAGTGCC CGTGTCGGAG CCGCGCGAGA TATGGCCCGC GCTGGAGTTT CAATACCGGA GATCATGCAA GCTGGTGGCT GGACCAATGT AAATATTGTC
      TCTATGGACC GGACCAGACC TGTGTCACGG GCACAGCCTC GGCGCGCTCT ATACCGGGCG CGACCTCAAA GTTATGGCCT CTAGTACGTT CGACCACCGA CCTGGTTACA TTTATAACAG

                            CRE
                                                                             NotI       XhoI
  +1  M  N  Y  I  R  N  L  D  S  E  T  G  A  M  V  R  L  L  E  D  G  D  A  A  A  L  E  H  H  H  H  H  H
6121  ATGAACTATA TCCGTAACCT GGATAGTGAA ACAGGGGCAA TGGTGCGCCT GCTGGAAGAT GGCGATGCGG CCGCACTCGA GCACCACCAC CACCACCACT GAGATCCGGC TGCTAACAAA
      TACTTGATAT AGGCATTGGA CCTATCACTT TGTCCCCGTT ACCACGCGGA CGACCTTCTA CCGCTACGCC GGCGTGAGCT CGTGGTGGTG GTGGTGGTGA CTCTAGGCCG ACGATTGTTT
6241  GCCCGAAAGG AAGCTGAGTT GGCTGCTGCC ACCGCTGAGC AATAACTAGC ATAACCCCTT GGGGCCTCTA AACGGGTCTT GAGGGGTTTT TTGCTGAAAG GAGGAACTAT ATCCGGAT
      CGGGCTTTCC TTCGACTCAA CCGACGACGG TGGCGACTCG TTATTGATCG TATTGGGGAA CCCCGGAGAT TTGCCCAGAA CTCCCCAAAA AACGACTTTC CTCCTTGATA TAGGCCTA
```