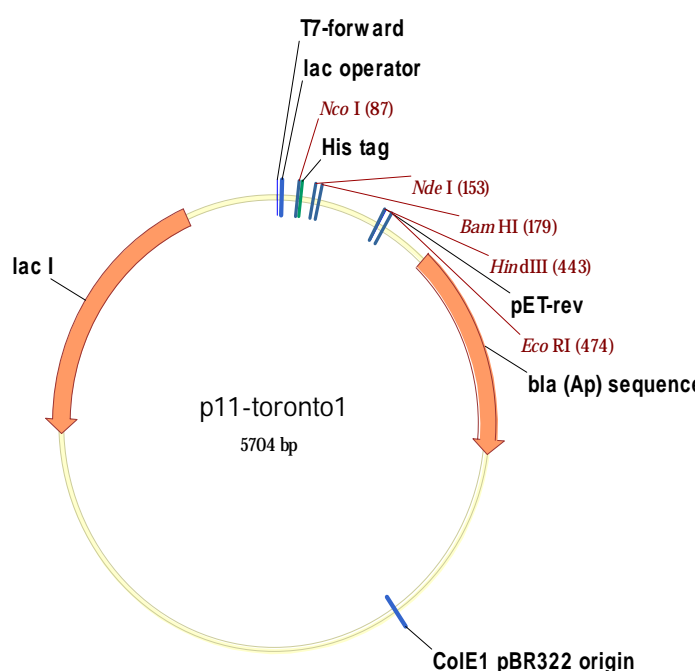


Vector information sheet.

Vector Name	p11
Source	Sujata Sharma, Toronto SGC
Sequence accession/link	(SGC)
Description	pET expression vector with His ₆ tag in 22-aa N-terminal fusion peptide, with TEV protease cleavage site.
Antibiotic resistance	amp
Promoter	T7 - lacO
Cloning	In-frame NdeI – BamHI.
Initiation codon	In vector
N-terminal fusion – seq.	MGSSHHHHHHSSGRENLYFQ*GH (* - TEV cleavage site)
N-terminal fusion – MW	2693.07 Da (including met). TEV cleavage removes 2367.65 Da.
Termination codons	In vector, after BamHI (in frame: GGA TCC TAA; adds gly-ser to the C-terminus) (Termination codon may be supplied in the insert)
C-terminal fusion – seq.	GS
C-terminal fusion – MW	144.14 Da
Protease cleavage	TEV
Additional features	
Preferred host	DE3 hosts: BL21, Rosetta, etc. MUST express T7 RNA polymerase.
5' sequencing primer	T7 promoter: TAATACGACTCACTATAGGG
3' sequencing primer	PET-rev. ATGTTTGACAGCTTATCATCGA NOTE: standard T7 terminator primer does not work!!!



Polylinker region

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5161                                     BglIII
                                         A GATCTCGATC
                                         T CTAGAGCTAG

          T7-forward
          ~~~~~~
5221 CCGCGAAATF AATACGACTC ACTATAGGGG AATTGTGAGC GGATAACAAT TCCCCTCTAG
      GGCGCTTTAA TTATGCTGAG TGATATCCCC TTAACACTCG CCTATTGTTA AGGGGAGATC
                                         NcoI
                                         M G S S H H H H
5281 AAATAATTTT GTTAACTTT AAGAAGGAGA TATACCATGG GCAGCAGCCA TCATCATCAT
      TTTATTAATA CAAATTGAAA TTCTTCCTCT ATATGGTACC CGTCGTCGGT AGTAGTAGTA

                                         NdeI NheI
      H H S S G R E N L Y F Q G H M A S L T G
5341 CATCACAGCA GCGGCAGAGA AACTTTGTAT TTCCAGGGCC ATATGGCTAG CTTGACTGGT
      GTAGTGTCGT CGCCGTCTCT TTGAAACATA AAGGTCCCGG TATACCGATC GAACTGACCA
      BamHI
      G Q G S *
5401 GGACAGGGAT CTAATAACT AAGTAAACTA GTGCTGAGCA ATAAC TAGCA TAACCCCTTG
      CCTGTCCCTA GGATTATTGA TTCATTTGAT CACGACTCGT TATTGATCGT ATTGGGGAAC

5461 GGGCCTCTAA ACGGGTCTTG AGGGGTTTTT TGCTGAAAGG AGGAACTATA TCCGGATATC
      CCCGGAGATT TGCCAGAAC TCCCCAAAAA ACGACTTTCC TCCTTGATAT AGGCCTATAG

5521 CCGCAAGAGG CCCGGCAGTA CCGGCATAAC CAAGCCTATG CCTACAGCAT CCAGGGTGAC
      GGCGTTCTCC GGGCCGTCAT GGCCGTATTG GTTCGGATAC GGATGTCGTA GGTCCCACTG

5581 GGTGCCGAGG ATGACGATGA GCGCATTGTT AGATTTTATA CACGGTGCCT GACTGCGTTA
      CCACGGCTCC TACTGCTACT CGCGTAACAA TCTAAAGTAT GTGCCACGGA CTGACGCAAT

                                         ClaI
                                         HindIII
5641 GCAATTTAAC TGTGATAAAC TACCGCATT AAGCTTATCG ATGATAAGCT GTCAAACATG
      CGTTAAATTG AACTATTTG ATGGCGTAAT TTCGAATAGC TACTATTCGA CAGTTTGTAC
      ~~~~~~
                                         pET-rev

      EcoRI
5701 AGAATTC
      TCTTAAG
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