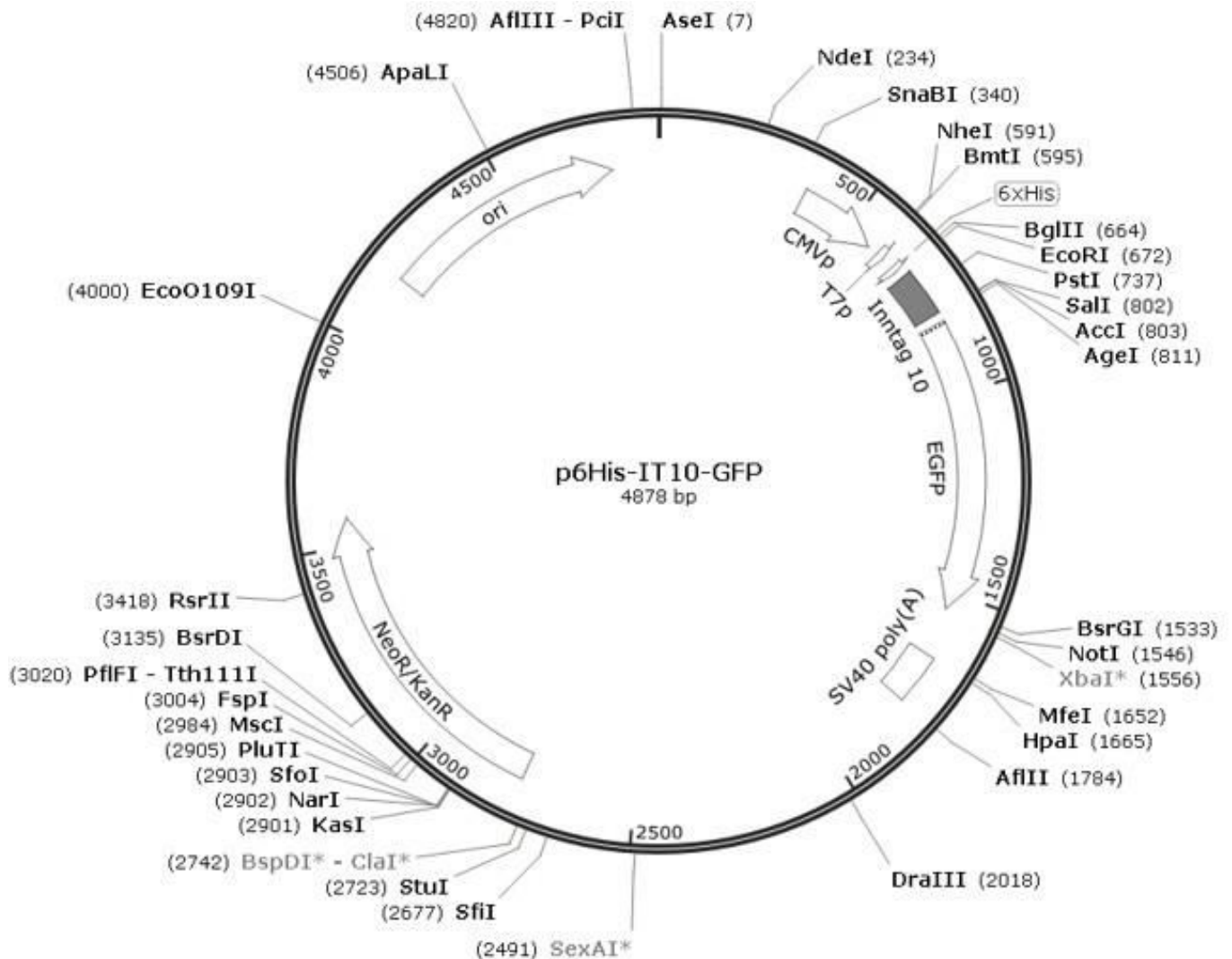


Plasmid To Express Inntag 10

Cat # NB-19-0029

Inntag #	pdb_id	Description	prot_gi	Organism	Length (aa)
10	3BBG	Pollen allergen 5	159164870	<i>Ambrosia trifida</i>	40



p6His-IT10-GFP sequence landmarks

<u>CMVp</u>	365..568 = 204bp
<u>T7p</u>	597..615 = 19 bp
<u>6xHis</u>	644..661 = 18 bp
<u>Inntag 10</u>	680..799 = 120 bp
<u>EGFP</u>	824..1543 = 720 bp
<u>SV40 poly(A)</u>	1666..1787 = 122 bp
<u>NeoR/KanR</u>	2774..3568 = 795 bp
<u>ori</u>	4176..4764 = 589 bp

p6His-IT10-GFP unique restriction enzymes

AccI, AflII, AflIII, AgeI, ApaLI, AseI, BalII, BmtI, BspDI*, BsrDI,
BsrGI, ClaI*, DraIII, EcoO109I, EcoRI, FspI, HpaI, KasI, MfeI,
MscI, NarI, NdeI, NheI, NotI, PciI, PfIFI, PluTI, PstI, RsrII, Sall,
SexAI*, SfiI, SfoI, SnaBI, StuI, Tth111I, XbaI*.

(* Blocked by Dam methylation)

p6His-IT10-GFP cloning / expression region

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          CMV promoter
          ----->
523  AATGGGCGGT AGGCGGTGAC GGTGGGAGGT CTATATAAGC AGAGCTGGTT TAGTGAACCG TCAGATCCGC TAGCTAATAC GACTCACTAT
          ----->
          T7 promoter
          ----->

          ----->
613  AGGTCTCATA GAAGGAGTAG CCACCATGGG TCATCACCAT CACCATCACG CAGATCTTCG AATTCCTGGAT GATGGCCTGT GCTATGAAGG
          M G H H H H H H A D L R I L D D G L C Y E
          ----->
          6xHis
          ----->
          BglIII EcoRI
          ----->
703  CACCAACTGC GGCAAAGTGG GCAAATATTG CTGCAGCCCG ATTGGCAAAT ATTGCGTGTG CTATGATAGC AAAGCCATTT GCAACAAAAA
          G T N C G K V G K Y C C S P I G K Y C V C Y D S K A I C N K
          ----->
          PstI Inntag 10
          ----->
793  CTGCACCCAG TCGACGCCAC CGGTCGCCAC CATGGTGAGC AAGGGCGAGG AGCTGTTCAC CGGGGTGGTG CCCATCTGG TCGAGCTGGA
          N C T Q S T P P V A T M V S K G E E L F T G V V P I L V E L
          ----->
          SalI AgeI EGFP gene
          ----->
883  CGGCGACGTA AACGGCCACA AGTTCAGCGT GTCCGGCGAG GGCGAGGGCG ATGCCACCTA CGGCAAGCTG ACCCTGAAGT TCATCTGCAC
          D G D V N G H K F S V S G E G E G D A T Y G K L T L K F I C
          ----->
973  CACCGCAAG CTGCCGTGC CCTGGCCAC CCTCGTGACC ACCCTGACCT ACGGCCTGCA GTGCTTCAGC CGCTACCCCG ACCACATGAA
          T T G K L P V P W P T L V T T L T Y G V Q C F S R Y P D H M
          ----->
1063 GCAGCAGCAG TTCTTCAAGT CCGCCATGCC CGAAGGCTAC GTCCAGGAGC GCACCATCTT CTTCAAGGAC GACGGCAACT ACAAGACCCG
          K Q H D F F K S A M P E G Y V Q E R T I F F K D D G N Y K T
          ----->
1153 CGCCGAGGTG AAGTTCGAGG GCGACACCCT GGTGAACCGC ATCGAGCTGA AGGGCATCGA CTTCAAGGAG GACGGCAACA TCCTGGGGCA
          R A E V K F E G D T L V N R I E L K G I D F K E D G N I L G
          ----->
1243 CAAGCTGGAG TACAAC TACA ACAGCCACAA CGTCTATATC ATGGCCGACA AGCAGAAGAA CGGCATCAAG GTGAACTTCA AGATCCGCCA
          H K L E Y N Y N S H N V Y I M A D K Q K N G I K V N F K I R
          ----->
1333 CAACATCGAG GACGGCAGCG TGCAGCTCGC CGACCACTAC CAGCAGAACA CCCCATCGG CGACGGCCCC GTGCTGCTGC CCGACACCCA
          H N I E D G S V Q L A D H Y Q Q N T P I G D G P V L L P D N
          ----->
1423 CTACCTGAGC ACCCAGTCCG CCCTGAGCAA AGACCCCAAC GAGAAGCGCG ATCACATGGT CCTGCTGGAG TTCGTGACCG CCGCCGGGAT
          H Y L S T Q S A L S K D P N E K R D H M V L L E F V T A A G
          ----->
          BsrGI NotI XbaI*
          ----->
1513 CACTCTCGGC ATGGACGAGC TGTACAAGTA AAGCGGCCGC GACTCTAGAT CATAATCAGC CATAACCAT ATTTGTAGAG GTTTTACTTG
          I T L G M D E L Y K *
  
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