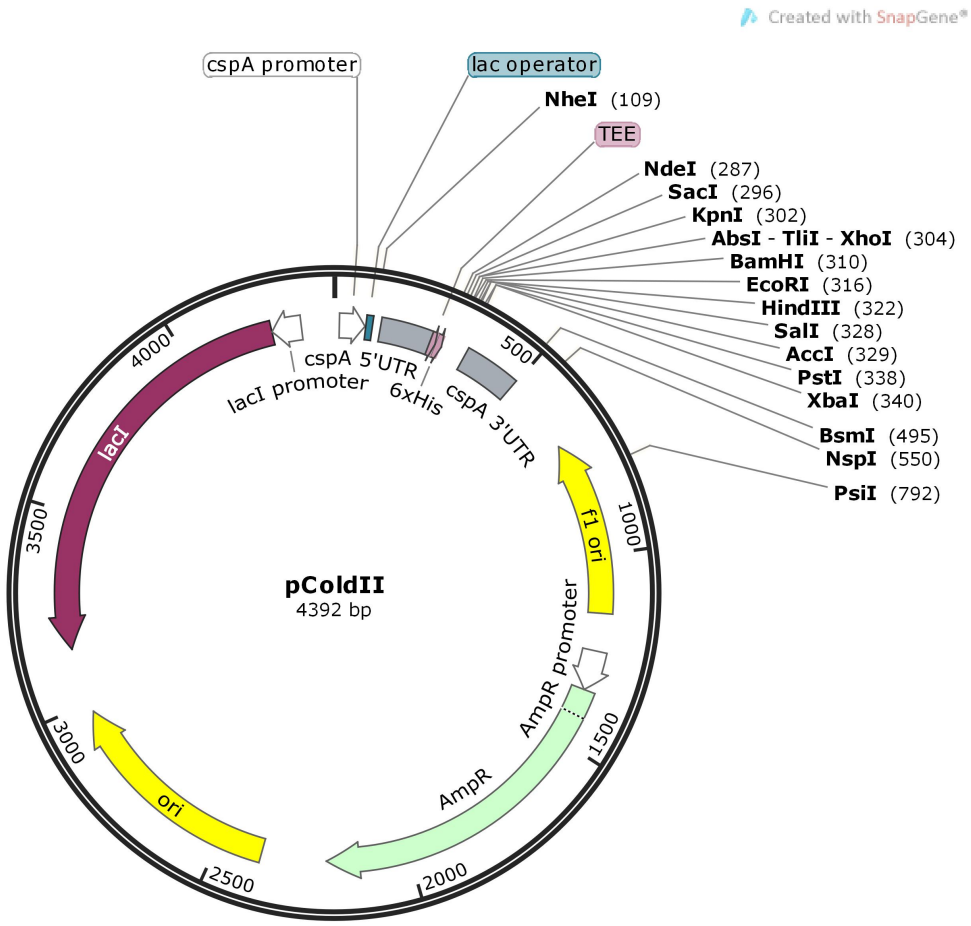
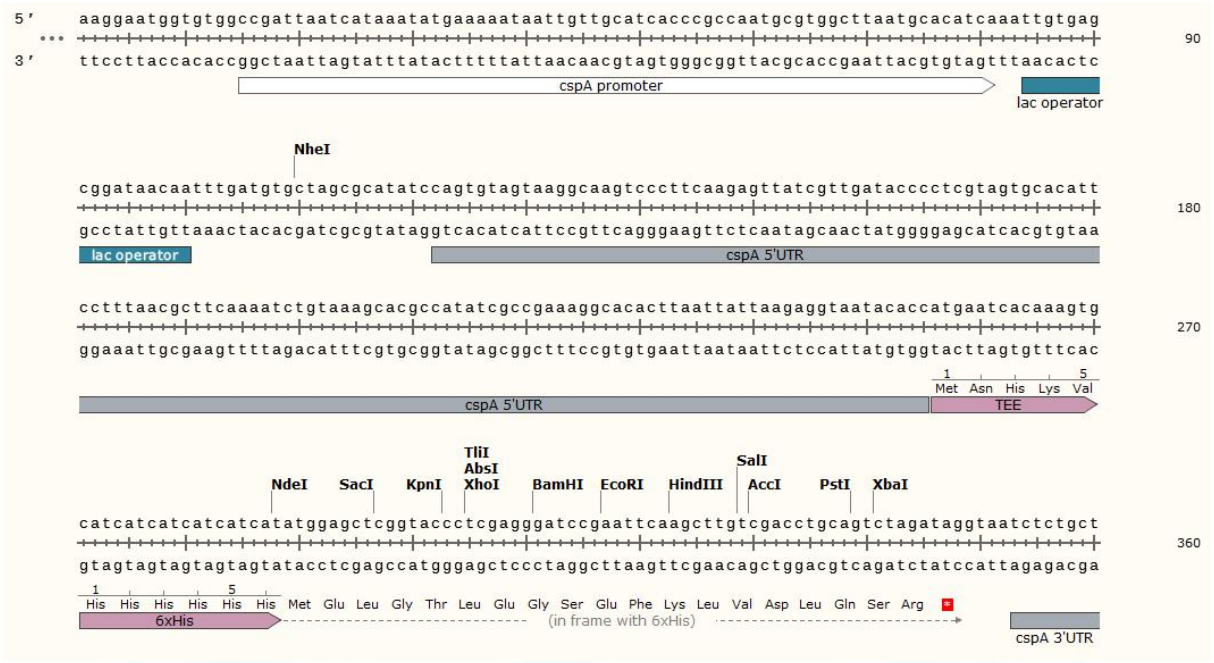
pColdII Vector Information



载体名称:	pColdII
质粒类型:	大肠杆菌蛋白表达载体
高拷贝/低拷贝:	高拷贝
启动子:	cspA promoter
克隆方法:	多克隆位点，限制性内切酶
克隆位点:	MCS
载体大小:	4392bp
5' 测序引物及序列:	Pcold-F: ACgCCATATCgCCgAAAgg
3' 测序引物及序列:	Pcold-R: TggCAgggATCTTAgATTCTg
载体标签:	6xHis
载体抗性:	Amp
筛选标记:	--
产品目录号:	--
稳定性:	瞬时表达 Transient
组成型:	组成型 Constitutive
病毒/非病毒:	非病毒
克隆菌株:	DH5α / Match-T1

MCS 区：




```
LOCUS       pColdII      4392bp ds-DNA   circular SYN 28-SEP-2020
DEFINITION  synthetic circular DNA
ACCESSION   .
VERSION     .
KEYWORDS    pColdII
SOURCE      synthetic DNA construct
  ORGANISM  synthetic DNA construct
REFERENCE   1  (bases 1 to 4392)
  AUTHORS   .
  TITLE     Direct Submission
  JOURNAL   Exported Monday, September 28, 2020 from SnapGene 3.2.1
            http://www.snapgene.com
FEATURES             Location/Qualifiers
     source          1..4392
                     /organism="synthetic DNA construct"
                     /mol_type="other DNA"
     promoter        15..81
                     /gene="cspA"
                     /note="cspA promoter"
                     /note="promoter of the E. coli cold shock protein cspA gene
                     (Mitta et al., 1997)"
     protein_bind    84..100
                     /bound_moiety="lac repressor encoded by lacI"
                     /note="lac operator"
                     /note="The lac repressor binds to the lac operator to
                     inhibit transcription in E. coli. This inhibition can be
                     relieved by adding lactose or
                     isopropyl-beta-D-thiogalactopyranoside (IPTG)."
```

5'UTR	122..255
	/gene="cspA"
	/note="cspA 5'UTR"
	/note="5'UTR of the E. coli cold shock protein cspA gene (Mitta et al., 1997)"
CDS	256..270
	/codon_start=1
	/gene="cspA"
	/product="translation enhancing element for E. coli (Qing et al., 2004)"
	/note="TEE"
	/translation="MNHKV"
CDS	271..288
	/codon_start=1
	/product="6xHis affinity tag"
	/note="6xHis"
	/translation="HHHHHH"
3'UTR	353..497
	/gene="cspA"
	/note="cspA 3'UTR"
	/note="3'UTR of the E. coli cold shock protein cspA gene (Mitta et al., 1997)"
rep_origin	complement(696..1151)
	/direction=LEFT
	/note="f1 ori"
	/note="f1 bacteriophage origin of replication; arrow indicates direction of (+) strand synthesis"
promoter	1251..1355
	/gene="bla"
	/note="AmpR promoter"
CDS	1356..2216
	/codon_start=1
	/gene="bla"
	/product="beta-lactamase"
	/note="AmpR"
	/note="confers resistance to ampicillin, carbenicillin, and related antibiotics"
	/translation="MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYI ELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRIDAGQEQLGRRIHYSQNDLVEYS PVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTTIGGPKELTAFLHNMGDHVTRLDRW EPELNEAIPNDERDTTMPVAMATTLRKLLTGELLTLASRQQLIDWMEADKVAGPLLRSA LPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGAS LIKHW"
rep_origin	2387..2975
	/direction=RIGHT
	/note="ori"
	/note="high-copy-number ColE1/pMB1/pBR322/pUC origin of

```
                     replication"
     CDS             complement(3147..4229)
                     /codon_start=1
                     /gene="lacI"
                     /product="lac repressor"
                     /note="lacI"
                     /note="The lac repressor binds to the lac operator to
                     inhibit transcription in E. coli. This inhibition can be
                     relieved by adding lactose or
                     isopropyl-beta-D-thiogalactopyranoside (IPTG)."
                     /translation="MKPVTLYDVAEYAGVSYQTVSRVVNQASHVSAKTREKVEAAMAEL
                     NYIPNRVAQQLAGKQSLLIGVATSSLALHAPSQIVAAIKSRADQLGASVVVSMVERSGV
                     EACKAAVHNLLAQRVSGLIINYPLDDQDAIAVEAACTNVPALFLDVSDQTPINSIIFSH
                     EDGTRLGVEHLVALGHQQIALLAGPLSSVSARLRLAGWHKYLTRNQIQPIAEREGDWSA
                     MSGFQQTMQMLNEGIVPTAMLVANDQMALGAMRAITESGLRVGADISVVGYDDTEDSSC
                     YIPPLTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLAPNTQTASPR
                     ALADSLMQLARQVSRLESGQ"
     promoter        complement(4230..4307)
                     /gene="lacI"
                     /note="lacI promoter"
ORIGIN
        1 AAGGAATGGT GTGGCCGATT AATCATAAAT ATGAAAAATA ATTGTTGCAT CACCCGCCAA
       61 TGCGTGGCTT AATGCACATC AAATTGTGAG CGGATAACAA TTTGATGTGC TAGCGCATAT
      121 CCAGTGTAGT AAGGCAAGTC CCTTCAAGAG TTATCGTTGA TACCCCTCGT AGTGCACATT
      181 CCTTTAACGC TTCAAAATCT GTAAAGCACG CCATATCGCC GAAAGGCACA CTTAATTATT
      241 AAGAGGTAAT ACACCATGAA TCACAAAGTG CATCATCATC ATCATCATAT GGAGCTCGGT
      301 ACCCTCGAGG GATCCGAATT CAAGCTTGTC GACCTGCAGT CTAGATAGGT AATCTCTGCT
      361 TAAAAGCACA GAATCTAAGA TCCCTGCCAT TTGGCGGGGA TTTTTTTATT TGTTTTCAGG
      421 AAATAAATAA TCGATCGCGT AATAAAATCT ATTATTATTT TTGTGAAGAA TAAATTTGGG
      481 TGCAATGAGA ATGCGCAGGC CCTTTCGTCT CGCGCGTTTC GGTGATGACG GTGAAAACCT
      541 CTGACACATG CAGCTCCCGG AGACGGTCAC AGCTTGTCTG TAAGCGGATG CCGGGAGCAG
      601 ACAAGCCCGT CAGGGCGCGT CAGCGGGTGT TGGCGGGTGT CGGGGCTGGC TTAACTATGC
      661 GGCATCAGAG CAGATTGTAC TGAGAGTGCA CCATAAAATT GTAAACGTTA ATATTTTGTT
      721 AAAATTCGCG TTAAATTTTT GTTAAATCAG CTCATTTTTT AACCAATAGG CCGAAATCGG
      781 CAAAATCCCT TATAAATCAA AAGAATAGCC CGAGATAGGG TTGAGTGTTG TTCCAGTTTG
      841 GAACAAGAGT CCACTATTAA AGAACGTGGA CTCCAACGTC AAAGGGCGAA AAACCGTCTA
      901 TCAGGGCGAT GGCCCACTAC GTGAACCATC ACCCAAATCA AGTTTTTTGG GGTCGAGGTG
      961 CCGTAAAGCA CTAAATCGGA ACCCTAAAGG GAGCCCCCGA TTTAGAGCTT GACGGGGAAA
     1021 GCCGGCGAAC GTGGCGAGAA AGGAAGGGAA GAAAGCGAAA GGAGCGGGCG CTAGGGCGCT
     1081 GGCAAGTGTA GCGGTCACGC TGCGCGTAAC CACCACACCC GCCGCGCTTA ATGCGCCGCT
     1141 ACAGGGCGCG TACTATGGTT GCTTTGACGT ATGCGGTGTG AAATACCGCA CAGATGCGTA
     1201 AGGAGAAAAT ACCGCATCAG GCGTCAGGTG GCACTTTTCG GGGAAATGTG CGCGGAACCC
     1261 CTATTTGTTT ATTTTTCTAA ATACATTCAA ATATGTATCC GCTCATGAGA CAATAACCCT
     1321 GATAAATGCT TCAATAATAT TGAAAAAGGA AGAGTATGAG TATTCAACAT TTCCGTGTCG
     1381 CCCTTATTCC CTTTTTTGCG GCATTTTGCC TTCCTGTTTT TGCTCACCCA GAAACGCTGG
     1441 TGAAAGTAAA AGATGCTGAA GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATC
     1501 TCAACAGCGG TAAGATCCTT GAGAGTTTTC GCCCCGAAGA ACGTTTTCCA ATGATGAGCA
```

1561 CTTTTAAAGT TCTGCTATGT GGCGCGGTAT TATCCCGTAT TGACGCCGGG CAAGAGCAAC
1621 TCGGTCGCCG CATACACTAT TCTCAGAATG ACTTGGTTGA GTACTCACCA GTCACAGAAA
1681 AGCATCTTAC GGATGGCATG ACAGTAAGAG AATTATGCAG TGCTGCCATA ACCATGAGTG
1741 ATAACACTGC GGCCAACTTA CTTCTGACAA CGATCGGAGG ACCGAAGGAG CTAACCGCTT
1801 TTTTGCACAA CATGGGGGAT CATGTAACTC GCCTTGATCG TTGGGAACCG GAGCTGAATG
1861 AAGCCATACC AAACGACGAG CGTGACACCA CGATGCCTGT AGCAATGGCA ACAACGTTGC
1921 GCAAACTATT AACTGGCGAA CTACTTACTC TAGCTTCCCG GCAACAATTA ATAGACTGGA
1981 TGGAGGCGGA TAAAGTTGCA GGACCACTTC TGCGCTCGGC CCTTCCGGCT GGCTGGTTTA
2041 TTGCTGATAA ATCTGGAGCC GGTGAGCGTG GGTCTCGCGG TATCATTGCA GCACTGGGGC
2101 CAGATGGTAA GCCCTCCCGT ATCGTAGTTA TCTACACGAC GGGGAGTCAG GCAACTATGG
2161 ATGAACGAAA TAGACAGATC GCTGAGATAG GTGCCTCACT GATTAAGCAT TGGTAACTGT
2221 CAGACCAAGT TTACTCATAT ATACTTTAGA TTGATTTAAA ACTTCATTTT TAATTTAAAA
2281 GGATCTAGGT GAAGATCCTT TTTGATAATC TCATGACCAA AATCCCTTAA CGTGAGTTTT
2341 CGTTCCACTG AGCGTCAGAC CCCGTAGAAA AGATCAAAGG ATCTTCTTGA GATCCTTTTT
2401 TTCTGCGCGT AATCTGCTGC TTGCAAACAA AAAAACCACC GCTACCAGCG GTGGTTTGTT
2461 TGCCGGATCA AGAGCTACCA ACTCTTTTTC CGAAGGTAAC TGGCTTCAGC AGAGCGCAGA
2521 TACCAAATAC TGTTCTTCTA GTGTAGCCGT AGTTAGGCCA CCACTTCAAG AACTCTGTAG
2581 CACCGCCTAC ATACCTCGCT CTGCTAATCC TGTTACCAGT GGCTGCTGCC AGTGGCGATA
2641 AGTCGTGTCT TACCGGGTTG GACTCAAGAC GATAGTTACC GGATAAGGCG CAGCGGTCGG
2701 GCTGAACGGG GGGTTCGTGC ACACAGCCCA GCTTGGAGCG AACGACCTAC ACCGAACTGA
2761 GATACCTACA GCGTGAGCTA TGAGAAAGCG CCACGCTTCC CGAAGGGAGA AAGGCGGACA
2821 GGTATCCGGT AAGCGGCAGG GTCGGAACAG GAGAGCGCAC GAGGGAGCTT CCAGGGGGAA
2881 ACGCCTGGTA TCTTTATAGT CCTGTCGGGT TTCGCCACCT CTGACTTGAG CGTCGATTTT
2941 TGTGATGCTC GTCAGGGGGG CGGAGCCTAT GGAAAAACGC CAGCAACGCG GCCTTTTTAC
3001 GGTTCCTGGC CTTTTGCTGG CCTTTTGCTC ACATAGTCAT GCCCCGCGCC CACCGGAAGG
3061 AGCTGACTGG GTTGAAGGCT CTCAAGGGCA TCGGTCGAGA TCCCGGTGCC TAATGAGTGA
3121 GCTAACTTAC ATTAATTGCG TTGCGCTCAC TGCCCGCTTT CCAGTCGGGA AACCTGTCGT
3181 GCCAGCTGCA TTAATGAATC GGCCAACGCG CGGGGAGAGG CGGTTTGCGT ATTGGGCGCC
3241 AGGGTGGTTT TTCTTTTCAC CAGTGAGACG GGCAACAGCT GATTGCCCTT CACCGCCTGG
3301 CCCTGAGAGA GTTGCAGCAA GCGGTCCACG CTGGTTTGCC CCAGCAGGCG AAAATCCTGT
3361 TTGATGGTGG TTAACGGCGG GATATAACAT GAGCTGTCTT CGGTATCGTC GTATCCCACT
3421 ACCGAGATAT CCGCACCAAC GCGCAGCCCG GACTCGGTAA TGGCGCGCAT TGCGCCCAGC
3481 GCCATCTGAT CGTTGGCAAC CAGCATCGCA GTGGGAACGA TGCCCTCATT CAGCATTTGC
3541 ATGGTTTGTT GAAAACCGGA CATGGCACTC CAGTCGCCTT CCCGTTCCGC TATCGGCTGA
3601 ATTTGATTGC GAGTGAGATA TTTATGCCAG CCAGCCAGAC GCAGACGCGC CGAGACAGAA
3661 CTTAATGGGC CCGCTAACAG CGCGATTTGC TGGTGACCCA ATGCGACCAG ATGCTCCACG
3721 CCCAGTCGCG TACCGTCTTC ATGGGAGAAA ATAATACTGT TGATGGGTGT CTGGTCAGAG
3781 ACATCAAGAA ATAACGCCGG AACATTAGTG CAGGCAGCTT CCACAGCAAT GGCATCCTGG
3841 TCATCCAGCG GATAGTTAAT GATCAGCCCA CTGACGCGTT GCGCGAGAAG ATTGTGCACC
3901 GCCGCTTTAC AGGCTTCGAC GCCGCTTCGT TCTACCATCG ACACCACCAC GCTGGCACCC
3961 AGTTGATCGG CGCGAGATTT AATCGCCGCG ACAATTTGCG ACGGCGCGTG CAGGGCCAGA
4021 CTGGAGGTGG CAACGCCAAT CAGCAACGAC TGTTTGCCCG CCAGTTGTTG TGCCACGCGG
4081 TTGGGAATGT AATTCAGCTC CGCCATCGCC GCTTCCACTT TTTCCCGCGT TTTCGCAGAA
4141 ACGTGGCTGG CCTGGTTCAC CACGCGGGAA ACGGTCTGAT AAGAGACACC GGCATACTCT
4201 GCGACATCGT ATAACGTTAC TGGTTTCACA TTCACCACCC TGAATTGACT CTCTTCCGGG
4261 CGCTATCATG CCATACCGCG AAAGGTTTTG CGCCATTCGA TGGTGTCCGG GATCTCGACG
4321 CTCTCCCTTA TGCGACTCCT GCATTAGGAA GCAGCCCAGT AGTAGGTTGA GGCCGTTGAG

```
     4381 CACCGCCGCC GC
//
```