天净沙系列

CAT#:1-180801y

常温运输及保存

天净沙

pSpCas9(BB)-2A-puro V2.0 (pX459 V2.0)质粒 DNA

pSpCas9(BB)-2A-puro V2.0 (pX459 V2.0) Plasmid DNA

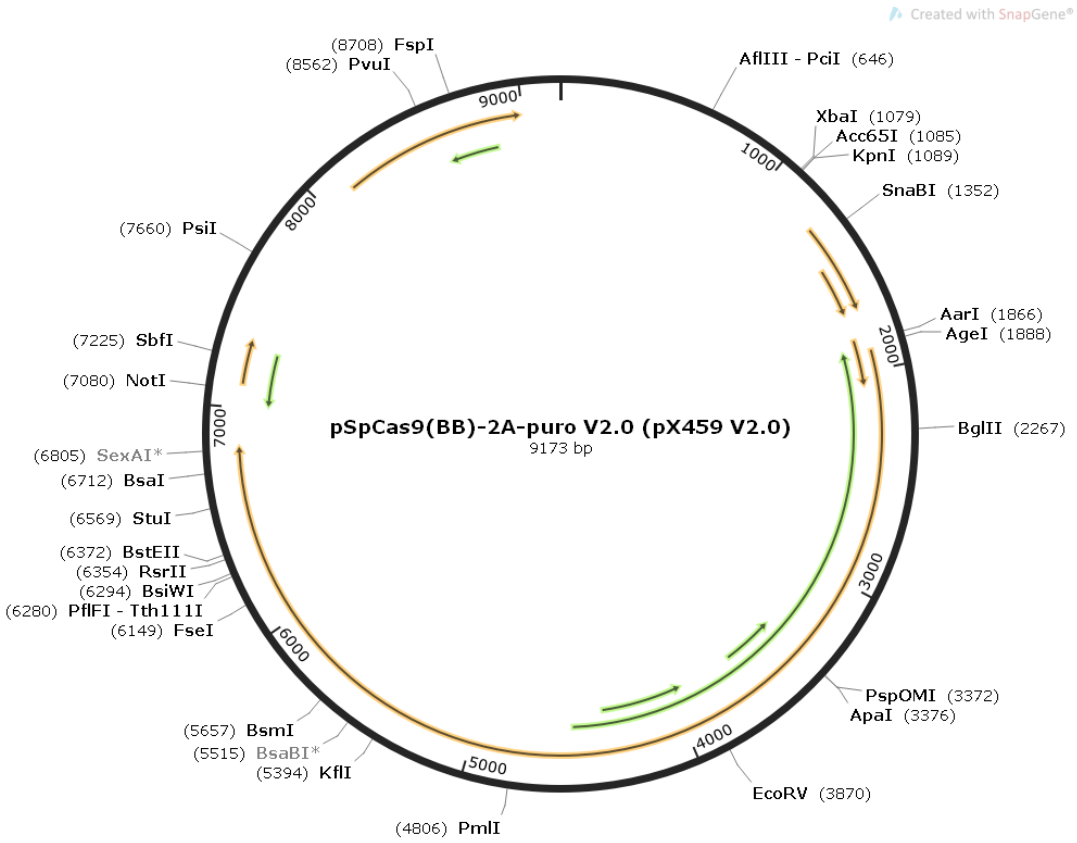
使用手册 V1.0

北京天净沙基因科技有限公司

网址：www.tjs.bio；电话：400-1078566；电邮：order@tjs.bio

产品及特点

pSpCas9(BB)-2A-puro V2.0 (pX459 V2.0)是一种哺乳动物表达载体。该质粒大小为 9173 bp。本质粒带有 Cbh 启动子，其 5′端克隆位点为 AgeI，3′端克隆位点为 EcoRI。它带有嘌呤霉筛选标记，同时携带氨苄青霉素抗性基因。其图谱如下：



规格及成分

本产品使用塑料袋包装

成分	编号	规格	包装
pSpCas9(BB)-2A-puro V2.0 (pX459 V2.0)质粒 DNA 干粉	1-180801y	2 μg	0.5 mL 本色管
使用手册	sc1-180801y	1 份	无

运输及保存

常温运输，溶解后需-20℃保存，有效期两年。

使用方法

使用前将本产品短暂离心后加入 100 μL 自备的超纯水或 TE 缓冲液溶解，可以得到 20 ng/μL 的质粒 DNA 溶液，该溶液可直接用于酶切克隆。也可以取少量，按常规方法进行细菌转化，制备更多的质粒 DNA 进行各种后续实验。

DNA 序列

```
   1 CTTGAGATCC TTTTTTTCTG CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC
  61 CAGCGGTGGT TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAACTGGCT
 121 TCAGCAGAGC GCAGATACCA AATACTGTTC TTCTAGTGTA GCCGTAGTTA GGCCACCACT
 181 TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT AATCCTGTTA CCAGTGGCTG
 241 CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTTGGACTC AAGACGATAG TTACCGGATA
 301 AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGCACACA GCCCAGCTTG GAGCGAACGA
 361 CCTACACCGA ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCCGAAG
 421 GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG AACAGGAGAG CGCACGAGGG
```

```
 481 AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC
 541 TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG GGGGGCGGAG CCTATGGAAA AACGCCAGCA
 601 ACGCGGCCTT TTTACGGTTC CTGGCCTTTT GCTGGCCTTT TGCTCACATG TGAGGGCCTA
 661 TTTCCCATGA TTCCTTCATA TTTGCATATA CGATACAAGG CTGTTAGAGA GATAATTGGA
 721 ATTAATTTGA CTGTAAACAC AAAGATATTA GTACAAAATA CGTGACGTAG AAAGTAATAA
 781 TTTCTTGGGT AGTTTGCAGT TTTAAAATTA TGTTTTAAAA TGGACTATCA TATGCTTACC
 841 GTAACTTGAA AGTATTTCGA TTTCTTGGCT TTATATATCT TGTGGAAAGG ACGAAACACC
 901 GGGTCTTCGA GAAGACCTGT TTTAGAGCTA GAAATAGCAA GTTAAAATAA GGCTAGTCCG
 961 TTATCAACTT GAAAAAGTGG CACCGAGTCG GTGCTTTTTT GTTTTAGAGC TAGAAATAGC
1021 AAGTTAAAAT AAGGCTAGTC CGTTTTTAGC GCGTGCGCCA ATTCTGCAGA CAAATGGCTC
1081 TAGAGGTACC CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC
1141 CCCGCCCATT GACGTCAATA GTAACGCCAA TAGGGACTTT CCATTGACGT CAATGGGTGG
1201 AGTATTTACG GTAAACTGCC CACTTGGCAG TACATCAAGT GTATCATATG CCAAGTACGC
1261 CCCCTATTGA CGTCAATGAC GGTAAATGGC CCGCCTGGCA TTGTGCCCAG TACATGACCT
1321 TATGGGACTT TCCTACTTGG CAGTACATCT ACGTATTAGT CATCGCTATT ACCATGGTCG
1381 AGGTGAGCCC CACGTTCTGC TTCACTCTCC CCATCTCCCC CCCCTCCCCA CCCCCAATTT
1441 TGTATTTATT TATTTTTTAA TTATTTTGTG CAGCGATGGG GGCGGGGGGG GGGGGGGGCG
1501 CGCGCCAGGC GGGGCGGGGC GGGGCGAGGG GCGGGGCGGG GCGAGGCGGA GAGGTGCGGC
1561 GGCAGCCAAT CAGAGCGGCG CGCTCCGAAA GTTTCCTTTT ATGGCGAGGC GGCGGCGGCG
1621 GCGGCCCTAT AAAAAGCGAA GCGCGCGGCG GGCGGGAGTC GCTGCGCGCT GCCTTCGCCC
1681 CGTGCCCCGC TCCGCCGCCG CCTCGCGCCG CCCGCCCCGG CTCTGACTGA CCGCGTTACT
1741 CCCACAGGTG AGCGGGCGGG ACGGCCCTTC TCCTCCGGGC TGTAATTAGC TGAGCAAGAG
1801 GTAAGGGTTT AAGGGATGGT TGGTTGGTGG GGTATTAATG TTTAATTACC TGGAGCACCT
1861 GCCTGAAATC ACTTTTTTTC AGGTTGGACC GGTGCCACCA TGGACTATAA GGACCACGAC
1921 GGAGACTACA AGGATCATGA TATTGATTAC AAAGACGATG ACGATAAGAT GGCCCCAAAG
1981 AAGAAGCGGA AGGTCGGTAT CCACGGAGTC CCAGCAGCCG ACAAGAAGTA CAGCATCGGC
2041 CTGGACATCG GCACCAACTC TGTGGGCTGG GCCGTGATCA CCGACGAGTA CAAGGTGCCC
2101 AGCAAGAAAT TCAAGGTGCT GGGCAACACC GACCGGCACA GCATCAAGAA GAACCTGATC
2161 GGAGCCCTGC TGTTCGACAG CGGCGAAACA GCCGAGGCCA CCCGGCTGAA GAGAACCGCC
2221 AGAAGAAGAT ACACCAGACG GAAGAACCGG ATCTGCTATC TGCAAGAGAT CTTCAGCAAC
2281 GAGATGGCCA AGGTGGACGA CAGCTTCTTC CACAGACTGG AAGAGTCCTT CCTGGTGGAA
2341 GAGGATAAGA AGCACGAGCG GCACCCCATC TTCGGCAACA TCGTGGACGA GGTGGCCTAC
2401 CACGAGAAGT ACCCCACCAT CTACCACCTG AGAAAGAAAC TGGTGGACAG CACCGACAAG
2461 GCCGACCTGC GGCTGATCTA TCTGGCCCTG GCCCACATGA TCAAGTTCCG GGGCCACTTC
2521 CTGATCGAGG GCGACCTGAA CCCCGACAAC AGCGACGTGG ACAAGCTGTT CATCCAGCTG
2581 GTGCAGACCT ACAACCAGCT GTTCGAGGAA AACCCCATCA ACGCCAGCGG CGTGGACGCC
2641 AAGGCCATCC TGTCTGCCAG ACTGAGCAAG AGCAGACGGC TGGAAAATCT GATCGCCCAG
2701 CTGCCCGGCG AGAAGAAGAA TGGCCTGTTC GGAAACCTGA TTGCCCTGAG CCTGGGCCTG
2761 ACCCCCAACT TCAAGAGCAA CTTCGACCTG GCCGAGGATG CCAAACTGCA GCTGAGCAAG
2821 GACACCTACG ACGACGACCT GGACAACCTG CTGGCCCAGA TCGGCGACCA GTACGCCGAC
2881 CTGTTTCTGG CCGCCAAGAA CCTGTCCGAC GCCATCCTGC TGAGCGACAT CCTGAGAGTG
2941 AACACCGAGA TCACCAAGGC CCCCCTGAGC GCCTCTATGA TCAAGAGATA CGACGAGCAC
3001 CACCAGGACC TGACCCTGCT GAAAGCTCTC GTGCGGCAGC AGCTGCCTGA GAAGTACAAA
3061 GAGATTTTCT TCGACCAGAG CAAGAACGGC TACGCCGGCT ACATTGACGG CGGAGCCAGC
3121 CAGGAAGAGT TCTACAAGTT CATCAAGCCC ATCCTGGAAA AGATGGACGG CACCGAGGAA
3181 CTGCTCGTGA AGCTGAACAG AGAGGACCTG CTGCGGAAGC AGCGGACCTT CGACAACGGC
3241 AGCATCCCCC ACCAGATCCA CCTGGGAGAG CTGCACGCCA TTCTGCGGCG GCAGGAAGAT
```

3301 TTTTACCCAT TCCTGAAGGA CAACCGGGAA AAGATCGAGA AGATCCTGAC CTTCCGCATC
3361 CCCTACTACG TGGGCCCTCT GGCCAGGGGA AACAGCAGAT TCGCCTGGAT GACCAGAAAG
3421 AGCGAGGAAA CCATCACCCC CTGGAACTTC GAGGAAGTGG TGGACAAGGG CGCTTCCGCC
3481 CAGAGCTTCA TCGAGCGGAT GACCAACTTC GATAAGAACC TGCCCAACGA GAAGGTGCTG
3541 CCCAAGCACA GCCTGCTGTA CGAGTACTTC ACCGTGTATA ACGAGCTGAC CAAAGTGAAA
3601 TACGTGACCG AGGGAATGAG AAAGCCCGCC TTCCTGAGCG GCGAGCAGAA AAAGGCCATC
3661 GTGGACCTGC TGTTCAAGAC CAACCGGAAA GTGACCGTGA AGCAGCTGAA AGAGGACTAC
3721 TTCAAGAAAA TCGAGTGCTT CGACTCCGTG GAAATCTCCG GCGTGGAAGA TCGGTTCAAC
3781 GCCTCCCTGG GCACATACCA CGATCTGCTG AAAATTATCA AGGACAAGGA CTTCCTGGAC
3841 AATGAGGAAA ACGAGGACAT TCTGGAAGAT ATCGTGCTGA CCCTGACACT GTTTGAGGAC
3901 AGAGAGATGA TCGAGGAACG GCTGAAAACC TATGCCCACC TGTTCGACGA CAAAGTGATG
3961 AAGCAGCTGA AGCGGCGGAG ATACACCGGC TGGGGCAGGC TGAGCCGGAA GCTGATCAAC
4021 GGCATCCGGG ACAAGCAGTC CGGCAAGACA ATCCTGGATT TCCTGAAGTC CGACGGCTTC
4081 GCCAACAGAA ACTTCATGCA GCTGATCCAC GACGACAGCC TGACCTTTAA AGAGGACATC
4141 CAGAAAGCCC AGGTGTCCGG CCAGGGCGAT AGCCTGCACG AGCACATTGC CAATCTGGCC
4201 GGCAGCCCCG CCATTAAGAA GGGCATCCTG CAGACAGTGA AGGTGGTGGA CGAGCTCGTG
4261 AAAGTGATGG GCCGGCACAA GCCCGAGAAC ATCGTGATCG AAATGGCCAG AGAGAACCAG
4321 ACCACCCAGA AGGGACAGAA GAACAGCCGC GAGAGAATGA AGCGGATCGA AGAGGGCATC
4381 AAAGAGCTGG GCAGCCAGAT CCTGAAAGAA CACCCCGTGG AAAACACCCA GCTGCAGAAC
4441 GAGAAGCTGT ACCTGTACTA CCTGCAGAAT GGGCGGGATA TGTACGTGGA CCAGGAACTG
4501 GACATCAACC GGCTGTCCGA CTACGATGTG GACCATATCG TGCCTCAGAG CTTTCTGAAG
4561 GACGACTCCA TCGACAACAA GGTGCTGACC AGAAGCGACA AGAACCGGGG CAAGAGCGAC
4621 AACGTGCCCT CCGAAGAGGT CGTGAAGAAG ATGAAGAACT ACTGGCGGCA GCTGCTGAAC
4681 GCCAAGCTGA TTACCCAGAG AAAGTTCGAC AATCTGACCA AGGCCGAGAG AGGCGGCCTG
4741 AGCGAACTGG ATAAGGCCGG CTTCATCAAG AGACAGCTGG TGGAAACCCG GCAGATCACA
4801 AAGCACGTGG CACAGATCCT GGACTCCCGG ATGAACACTA AGTACGACGA GAATGACAAG
4861 CTGATCCGGG AAGTGAAAGT GATCACCCTG AAGTCCAAGC TGGTGTCCGA TTTCCGGAAG
4921 GATTTCCAGT TTTACAAAGT GCGCGAGATC AACAACTACC ACCACGCCCA CGACGCCTAC
4981 CTGAACGCCG TCGTGGGAAC CGCCCTGATC AAAAAGTACC CTAAGCTGGA AAGCGAGTTC
5041 GTGTACGGCG ACTACAAGGT GTACGACGTG CGGAAGATGA TCGCCAAGAG CGAGCAGGAA
5101 ATCGGCAAGG CTACCGCCAA GTACTTCTTC TACAGCAACA TCATGAACTT TTTCAAGACC
5161 GAGATTACCC TGGCCAACGG CGAGATCCGG AAGCGGCCTC TGATCGAGAC AAACGGCGAA
5221 ACCGGGGAGA TCGTGTGGGA TAAGGGCCGG GATTTTGCCA CCGTGCGGAA AGTGCTGAGC
5281 ATGCCCCAAG TGAATATCGT GAAAAAGACC GAGGTGCAGA CAGGCGGCTT CAGCAAAGAG
5341 TCTATCCTGC CCAAGAGGAA CAGCGATAAG CTGATCGCCA GAAAGAAGGA CTGGGACCCT
5401 AAGAAGTACG GCGGCTTCGA CAGCCCCACC GTGGCCTATT CTGTGCTGGT GGTGGCCAAA
5461 GTGGAAAAGG GCAAGTCCAA GAAACTGAAG AGTGTGAAAG AGCTGCTGGG GATCACCATC
5521 ATGGAAAGAA GCAGCTTCGA GAAGAATCCC ATCGACTTTC TGGAAGCCAA GGGCTACAAA
5581 GAAGTGAAAA AGGACCTGAT CATCAAGCTG CCTAAGTACT CCCTGTTCGA GCTGGAAAAC
5641 GGCCGGAAGA GAATGCTGGC CTCTGCCGGC GAACTGCAGA AGGGAAACGA ACTGGCCCTG
5701 CCCTCCAAAT ATGTGAACTT CCTGTACCTG GCCAGCCACT ATGAGAAGCT GAAGGGCTCC
5761 CCCGAGGATA ATGAGCAGAA ACAGCTGTTT GTGGAACAGC ACAAGCACTA CCTGGACGAG
5821 ATCATCGAGC AGATCAGCGA GTTCTCCAAG AGAGTGATCC TGGCCGACGC TAATCTGGAC
5881 AAAGTGCTGT CCGCCTACAA CAAGCACCGG GATAAGCCCA TCAGAGAGCA GGCCGAGAAT
5941 ATCATCCACC TGTTTACCCT GACCAATCTG GGAGCCCCTG CCGCCTTCAA GTACTTTGAC
6001 ACCACCATCG ACCGGAAGAG GTACACCAGC ACCAAAGAGG TGCTGGACGC CACCCTGATC
6061 CACCAGAGCA TCACCGGCCT GTACGAGACA CGGATCGACC TGTCTCAGCT GGGAGGCGAC

6121 AAAAGGCCGG CGGCCACGAA AAAGGCCGGC CAGGCAAAAA AGAAAAAGGA ATTCGGCAGT
6181 GGAGAGGGCA GAGGAAGTCT GCTAACATGC GGTGACGTCG AGGAGAATCC TGGCCCAATG
6241 ACCGAGTACA AGCCCACGGT GCGCCTCGCC ACCCGCGACG ACGTCCCCAG GGCCGTACGC
6301 ACCCTCGCCG CCGCGTTCGC CGACTACCCC GCCACGCGCC ACACCGTCGA TCCGGACCGC
6361 CACATCGAGC GGGTCACCGA GCTGCAAGAA CTCTTCCTCA CGCGCGTCGG GCTCGACATC
6421 GGCAAGGTGT GGGTCGCGGA CGACGGCGCC GCGGTGGCGG TCTGGACCAC GCCGGAGAGC
6481 GTCGAAGCGG GGGCGGTGTT CGCCGAGATC GGCCCGCGCA TGGCCGAGTT GAGCGGTTCC
6541 CGGCTGGCCG CGCAGCAACA GATGGAAGGC CTCCTGGCGC CGCACCGGCC CAAGGAGCCC
6601 GCGTGGTTCC TGGCCACCGT CGGAGTCTCG CCCGACCACC AGGGCAAGGG TCTGGGCAGC
6661 GCCGTCGTGC TCCCCGGAGT GGAGGCGGCC GAGCGCGCCG GGGTGCCCGC CTTCCTGGAG
6721 ACCTCCGCGC CCCGCAACCT CCCCTTCTAC GAGCGGCTCG GCTTCACCGT CACCGCCGAC
6781 GTCGAGGTGC CCGAAGGACC GCGCACCTGG TGCATGACCC GCAAGCCCGG TGCCTGAGAA
6841 TTCTAACTAG AGCTCGCTGA TCAGCCTCGA CTGTGCCTTC TAGTTGCCAG CCATCTGTTG
6901 TTTGCCCCTC CCCCGTGCCT TCCTTGACCC TGGAAGGTGC CACTCCCACT GTCCTTTCCT
6961 AATAAAATGA GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGTG
7021 GGGTGGGGCA GGACAGCAAG GGGGAGGATT GGGAAGAGAA TAGCAGGCAT GCTGGGGAGC
7081 GGCCGCAGGA ACCCCTAGTG ATGGAGTTGG CCACTCCCTC TCTGCGCGCT CGCTCGCTCA
7141 CTGAGGCCGG GCGACCAAAG GTCGCCCGAC GCCCGGGCTT TGCCCGGGCG GCCTCAGTGA
7201 GCGAGCGAGC GCGCAGCTGC CTGCAGGGGC GCCTGATGCG GTATTTTCTC CTTACGCATC
7261 TGTGCGGTAT TTCACACCGC ATACGTCAAA GCAACCATAG TACGCGCCCT GTAGCGGCGC
7321 ATTAAGCGCG GCGGGTGTGG TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCTT
7381 AGCGCCCGCT CCTTTCGCTT TCTTCCCTTC CTTTCTCGCC ACGTTCGCCG GCTTTCCCCG
7441 TCAAGCTCTA AATCGGGGGC TCCCTTTAGG GTTCCGATTT AGTGCTTTAC GGCACCTCGA
7501 CCCCAAAAAA CTTGATTTGG GTGATGGTTC ACGTAGTGGG CCATCGCCCT GATAGACGGT
7561 TTTTCGCCCT TTGACGTTGG AGTCCACGTT CTTTAATAGT GGACTCTTGT TCCAAACTGG
7621 AACAACACTC AACTCTATCT CGGGCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTC
7681 GGTCTATTGG TTAAAAAATG AGCTGATTTA ACAAAAATTT AACGCGAATT TTAACAAAAT
7741 ATTAACGTTT ACAATTTTAT GGTGCACTCT CAGTACAATC TGCTCTGATG CCGCATAGTT
7801 AAGCCAGCCC CGACACCCGC CAACACCCGC TGACGCGCCC TGACGGGCTT GTCTGCTCCC
7861 GGCATCCGCT TACAGACAAG CTGTGACCGT CTCCGGGAGC TGCATGTGTC AGAGGTTTTC
7921 ACCGTCATCA CCGAAACGCG CGAGACGAAA GGGCCTCGTG ATACGCCTAT TTTTATAGGT
7981 TAATGTCATG ATAATAATGG TTTCTTAGAC GTCAGGTGGC ACTTTTCGGG GAAATGTGCG
8041 CGGAACCCCT ATTTGTTTAT TTTTCTAAAT ACATTCAAAT ATGTATCCGC TCATGAGACA
8101 ATAACCCTGA TAAATGCTTC AATAATATTG AAAAAGGAAG AGTATGAGTA TTCAACATTT
8161 CCGTGTCGCC CTTATTCCCT TTTTTGCGGC ATTTTGCCTT CCTGTTTTTG CTCACCCAGA
8221 AACGCTGGTG AAAGTAAAAG ATGCTGAAGA TCAGTTGGGT GCACGAGTGG GTTACATCGA
8281 ACTGGATCTC AACAGCGGTA AGATCCTTGA GAGTTTTCGC CCCGAAGAAC GTTTTCCAAT
8341 GATGAGCACT TTTAAAGTTC TGCTATGTGG CGCGGTATTA TCCCGTATTG ACGCCGGGCA
8401 AGAGCAACTC GGTCGCCGCA TACACTATTC TCAGAATGAC TTGGTTGAGT ACTCACCAGT
8461 CACAGAAAAG CATCTTACGG ATGGCATGAC AGTAAGAGAA TTATGCAGTG CTGCCATAAC
8521 CATGAGTGAT AACACTGCGG CCAACTTACT TCTGACAACG ATCGGAGGAC CGAAGGAGCT
8581 AACCGCTTTT TTGCACAACA TGGGGGATCA TGTAACTCGC CTTGATCGTT GGGAACCGGA
8641 GCTGAATGAA GCCATACCAA ACGACGAGCG TGACACCACG ATGCCTGTAG CAATGGCAAC
8701 AACGTTGCGC AAACTATTAA CTGGCGAACT ACTTACTCTA GCTTCCCGGC AACAATTAAT
8761 AGACTGGATG GAGGCGGATA AAGTTGCAGG ACCACTTCTG CGCTCGGCCC TTCCGGCTGG
8821 CTGGTTTATT GCTGATAAAT CTGGAGCCGG TGAGCGTGGA AGCCGCGGTA TCATTGCAGC
8881 ACTGGGGCCA GATGGTAAGC CCTCCCGTAT CGTAGTTATC TACACGACGG GGAGTCAGGC

	8941 AACTATGGAT GAACGAAATA GACAGATCGC TGAGATAGGT GCCTCACTGA TTAAGCATTG 9001 GTAACTGTCA GACCAAGTTT ACTCATATAT ACTTTAGATT GATTTAAAAC TTCATTTTTA 9061 ATTTAAAAGG ATCTAGGTGA AGATCCTTTT TGATAATCTC ATGACCAAAA TCCCTTAACG 9121 TGAGTTTTCG TTCCACTGAG CGTCAGACCC CGTAGAAAAG ATCAAAGGAT CTT
测序结果	本批次上述 DNA 序列完全一样。
关联产品	pmCherry-C1 质粒 DNA

20250623ztl