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CAT#:1-171001y
低温运输, -80℃保存

BINGENE

pCL-Eco 质粒

使用手册 V1.0

江苏天净沙基因诊断技术有限公司

网址: www.bingene.com; 电话: 400-6005850; 电邮: order@bingene.com

产品及特点	名称	pCL-Eco		
	质粒分类	哺乳动物载体；逆病毒包装；单质粒包装系统		
	长度	12341bp		
	原核抗性	Ampicillin (氨苄)		
	启动子	CMV		
	克隆菌株	DH5a等		
	培养条件	37 度		
	5'测序引物	CMV-F：CGCAAATGGGCGGTAGGCGTG		
	3'测序引物	自备		
	规格及成分	本产品采用塑料袋包装		
成分		编号	规格	包装材料
pCL-Eco 质粒 (100ng/uL)		1-171001y	2μg	0.5mL 本色管
	使用手册	1-171001sc	1 份	无
酶切图谱				
运输及保存	低温运输， -80℃保存， 有效期一年。			
质粒序列	1 TGGTAAGCCC TCCCGTATCG TAGTTATCTA CACGACGGGG AGTCAGGCAA CTATGGATGA 61 ACGAAATAGA CAGATCGCTG AGATAGGTGC CTCACTGATT AAGCATTGGT AACTGTCAGA 121 CCAAGTTTAC TCATATATAC TTTAGATTGA TTTAAAACTT CATTTTTAAT TTAAAAGGAT 181 CTAGGTGAAG ATCCTTTTTG ATAATCTCAT GACCAAAATC CCTTAACGTG AGTTTTTCGTT 241 CCACTGAGCG TCAGACCCCG TAGAAAAGAT CAAAGGATCT TCTTGAGATC CTTTTTTTCT 301 GCGCGTAATC TGCTGCTTGC AAACAAAAAA ACCACCGCTA CCAGCGGTGG TTTGTTTGCC 361 GGATCAAGAG CTACCAACTC TTTTCCGAA GGTAAGTGGC TTCAGCAGAG CGCAGATACC 421 AAATACTGTC CTTCTAGTGT AGCCGTAGTT AGGCCACCAC TTCAAGAACT CTGTAGCACC			

481	GCCTACATAC	CTCGCTCTGC	TAATCCTGTT	ACCAGTGGCT	GCTGCCAGTG	GCGATAAGTC
541	TGTGCTTACC	GGGTGGACT	CAAGACGATA	GTTACCGGAT	AAGGCGCAGC	GGTCGGGCTG
601	AACGGGGGGT	TCGTGCACAC	AGCCCAGCTT	GGAGCGAACG	ACCTACACCG	AACTGAGATA
661	CCTACAGCGT	GAGCTATGAG	AAAGCGCCAC	GCTTCCCGAA	GGGAGAAAGG	CGGACAGGTA
721	TCCGGTAAGC	GGCAGGGTCG	GAACAGGAGA	GCGCACGAGG	GAGCTTCCAG	GGGAAACGC
781	CTGGTATCTT	TATAGTCCTG	TCGGGTTCG	CCACCTCTGA	CTTGAGCGTC	GATTTTGTG
841	ATGCTCGTCA	GGGGGCGGA	GCCTATGGAA	AAACGCCAGC	AACGCGGCCT	TTTACGGTT
901	CCTGGCCTTT	TGCTGGCCTT	TTGCTCACAT	GTTCTTTCCT	GCGTTATCCC	CTGATTCTGT
961	GGATAACCGT	ATTACGCCTT	TTGAGTGAGC	TGATACCGCT	CGCCGCAGCC	GAACGACCGA
1021	GCGCAGCGAG	TCAGTGAGCG	AGGAAGCGGA	AGAGCGCCCA	ATACGCAAAC	CGCCTCTCCC
1081	CGCGCGTTGG	CCGATTTCATT	AATGCAGCCT	CCAAAAAAGC	CTCCTCACTA	CTTCTGGAAT
1141	AGCTCAGAGG	CCGAGGCGGC	CTCGGCCTCT	GCATAAATAA	AAAAAATTAG	TCAGCCATGG
1201	GGCGGAGAA	GGGCGAACT	GGGCGGAGTT	AGGGGCGGGA	TGGGCGGAGT	AAGACCCGCA
1261	CCCGTTCCCA	AACTGCTTAT	TAAAGGGGGT	ATGGAGGTGC	TGGACCTTGT	GACAGGGCCA
1321	GACAGTGTGA	CAGAAATAGA	AGCAGTCCTG	TTTTGACAAG	TTGCCTCTGG	AAGCCTCTAC
1381	AATGCCTCTC	TTCTTTTCT	CCAGAGTAAG	CGGAGGCCAG	GGGCCCCCGG	CCTCTGCTTA
1441	ATACTAAAAA	AAACAGCTGT	TGTCATAGTA	ATGATTGGGT	GGAAACATTC	TAGGCCTGGG
1501	TGGAGAGGCT	TTTGTCTTC	TCTTGCAAAA	CCACACTGCC	CTCTGGAGGG	CAGTTGCCTA
1561	GCAACTAATT	AAAAGAGGAT	GTCGCACGGC	CAGCTGCGGT	CAGTTAGTCA	CTTCTGCTT
1621	AACTGACTTG	ACATTTTCTA	TTTTAAGAGT	CGGGAGGAAA	ATTACTGTGT	TGGAGGCCCT
1681	CCGCCATCTT	CTGAAGCTGA	TCCAGACATG	ATAAGATACA	TTGATGAGTT	TGGACAAACC
1741	ACAAC TAGAA	TGCAGTGAAA	AAAATGCTTT	ATTTGTGAAA	TTTGTGATGC	TATTGCTTTA
1801	TTTGTAACCA	TTATAAGCTG	CAATAAACAA	GTTAACAAACA	ACAATTGCAT	TCATTTTATG
1861	TTTCAGGTTT	AGGGGGAGGT	GTGGGAGGTT	TTTTAAAGCA	AGTAAACCT	CTACAAATGT
1921	GGTATGGCTG	ATTATGATCT	CTAGTCAAGG	CACTATACAT	CAAATATTTT	TCCATAATTT
1981	TCTTGTATAG	CAGTGCAGCT	TTTTCTTTTG	TGGTGTAAAT	AGCAAAGCAA	GCAAGAGTTC
2041	TATTACTAAA	CACAGCATGA	CTCAAAAAAC	TTAGCAATTC	TGAAGGAAAG	TCCTTGGGGT
2101	CTTCTACCTT	TCTCTTCTTT	TTTGGAGGAG	TAGAATGTTG	AGAGTCAGCA	GTAGCCTCAT
2161	CATCACTAGA	TGGCATTCT	TCTGAGCAAA	ACAGGTTTTC	CTCATTAAG	GCATTCCACC
2221	ACTGCTCCCA	TTCATCAGTT	CCATAGGTTG	GAATCTAAAA	TACACAAACA	ATTAGAATCA
2281	GTAGTTTAAAC	ACATTATACA	CTTAAAAAAT	TTATATTTAC	CTTAGAGCTT	TAAATCTCTG
2341	TAGGTAGTTT	GTCCAATTAT	GTCACACCAC	AGAAGTAAGG	TTCTTCACA	AAGATCCTCT
2401	AGCTACCTAG	CTAGATACAC	TCCGCTATCG	CTACGTGACT	GGGTCATGGC	TGCGCCCCGA
2461	CACCCGCCAA	CACCCGCTGA	CGCGCCTGA	CGGGCTTGTC	TGCTCCCGGC	ATCCGCTTAC
2521	AGACAAGCTG	TGACCGTCTC	CGGGAGCTGC	ATGTGTCAGA	GGTTTTACC	GTCATCACCG
2581	AAACGCGCGA	GGCAGCCAGC	TTACCTCCCG	GTGGTGGGTC	GGTGGTCCCT	GGGCAGGGGT
2641	CTCCCGATCC	CGGACGAGCC	CCCAAATGAA	AGACCCCGC	TGACGGGTAG	TCAATCACTC
2701	AGAGGAGACC	CTCCCAAGGA	ACAGCGAGAC	CACAAGTCGG	ATGCAACTGC	AAGAGGGTTT
2761	ATTGGATACA	CGGGTACCCG	GGCGACTCAG	TCAATCGGAG	GACTGGCGCC	CCGAGTGAGG
2821	GGTGTGGGC	TCTTTTATTG	AGCTCGGGGA	GCAGAAGCGC	GCGAACAGAA	GCGAGAAGCG
2881	AACTGATTGG	TTAGTTCAAA	TAAGGCACAG	GGTCATTTCA	GGTCCTGGG	GCACCCTGGA
2941	AACATCTGAT	GGTCTCTAG	CTTGCCAAAC	CTACAGGTGG	GGTCTTTCAT	TCCCCCTTT
3001	TTCTGGAGAC	TAAATAAAAT	CTTTTATTTT	ATCTATGGCT	CGTACTCTAT	AGGCTTCAGC
3061	TGGTGATATT	GTTGAGTCAA	AACTAGAGCC	TGGACCACTG	ATATCCTGTC	TTTAACAAAT
3121	TGGACTAATC	GATTAAGAAT	GCAGGGTCCG	AAGAGCAAAA	TCATTAGGAG	TACAATGAGG
3181	GGTCCCATAA	TGGTAGATAT	CAAGGTGGTA	AACCAAGGGG	ATCTGTTAAA	CAGTCCCTCA
3241	AACCATCCTT	GAGTTGACTC	AAACAGTTTC	TGTCTCTGAT	TAAGCCTCTC	TCTCAATTTG
3301	GCCATGCTGT	CTCTCACTAG	TCCTGTGTGG	TCCGCATAGA	AGCAACATTC	TTCTTTTAGA
3361	GCAGCACACA	GCCCTCCTTC	TTTTAGAAAT	AACAAGTCTA	GGCCCTTCG	ATTCTGTAGG
3421	ACAACCTTCA	ACAGGGAAGT	GAGAGACTTT	TCTAGGTTAG	AGATTGATTT	TTCAACCTCC
3481	CTGAGATCAT	CCTGTACTGC	GGCTTGGAGC	TGCTGGAATT	GCTGAGTGGC	CATTAGAGCA
3541	GTAGTCCCTG	TTCTATTCC	AGCGGCAATT	CCCCCATAG	TTAGTCCACC	CAATAATAGG
3601	GCCAGGGTTA	ACGACACCGG	TTCTCTTTTG	TGTCGGTTGG	ATCTCTCAAA	CAGGCCGTAA
3661	ACATAGCTGG	GGGAATGATA	GGTGACTCTT	GGCCAGAGTT	CGACAAGAAC	ACAATAATCA
3721	GTGGTAAGGT	TCAGTATGGT	GGTGGAGATG	CATGGAGTAA	GCCCGGTACT	ACAAGCCAC
3781	ATGGTACCTG	TAGGGGCAAC	TAGATAATAG	GACCCCTCGAC	TGCTTGTCTG	GGTGGTATTA
3841	CATAGGGCCT	GATGTGTTTT	GGGAAGTCT	CCTATGCAGA	GTCCCTGTCC	GGTCACTTCG
3901	GACAGGGTCA	ACTTGTGTTG	GGAGGCCACG	GAGCAGTTGG	CTGGAGCAGA	GGTATGGTTG
3961	GAGTAGGTAC	CCAGGACGGC	AACCCCTTCG	TAGTAGGGGG	GTCCCGCTAC	TAGACACAAC
4021	CAGCACTCTT	GGGTTTTGTC	AGGACTGGTG	AGGTTGAGGG	CTTGGTAGGC	TCCGTCTACT
4081	AAGTTTAGCA	GCCTATTTTC	CGTTCCCGCC	GGTGGAAGTT	GGGTAGGGGA	GAGAGGAGTC
4141	CCACTGGGTG	GTTTGGTGAC	TGAAGGCGAC	TTAACAGGTT	TGGGCTTGA	GAGTGGCTGT

4201	TGGTCTGCCA	GAACGGGGTT	TGGCCCTATT	GGGACGCGGG	GTCCTAGATT	TTGGTATCTG
4261	AGTCGGATCC	CAAAATGTAAG	CCCTGGATCT	TGTCCGGAGA	CATACAAACG	TAAGCCCCAG
4321	TAATGTCCTG	TGGTCCAGGA	AGTAACCCGT	CTCCCGGCGT	CTGTAAACCG	AATAACTAAG
4381	GGGTTGCACC	ACTTATTATC	TTTGCATACC	TGGACAGCCT	GGTCAGAGGT	GAGATTGTTG
4441	TTTACTGTGA	TGAAATCCCC	TGATGAGGAG	GGCTTCCAGT	AAGCTCTACC	GGTGTCTCA
4501	CAGCCCCAAT	AGGCACAGTA	GAAGGAGTCT	GGACCCCCAC	ATGACTTGGA	TTCTCGGGGG
4561	CGGTGGGGCC	CGGGGCAAAC	ATAAAATCCC	TCATTTGATT	TATGAGTTGT	CTGGTCTAGC
4621	TTGAGTCTGT	TCCAGGCAGT	GTTGCACCGA	GGGGTGAGGG	AGGTTAAAGG	TTCTTCGCAG
4681	TCTCTGGAAC	AGCCTGGGCT	GCTGCCCCCT	GAGCAACAAG	GGGGCCCCGG	GGGAGAAGAA
4741	AAAGGGGATT	GATATTCTAG	CCCCCAATAA	GATGGTCCAT	GGTGGGCTAA	CATACATAAA
4801	TCTGGGGTAA	GGTCAGGCCA	CCAGGTCCAC	AGAGGGTGGT	TGCCAGAAGT	TGCCCATACC
4861	GTCTCCCGAT	CTCCATTGGT	TACCTCCCAG	GTGATATTAT	AGACTTGATG	AGGACTGGAG
4921	CCGGGCGAAG	CAGTACTGAC	CCCTCTGAGC	ATCAGAAGAA	TTAAGGGGAT	TAGGGGCGCT
4981	CGCGGGTTAA	CCTTATTTTT	AAGGGGTTTT	GAGAGCGTTG	AACGCGCCAT	GTCAGTCTAG
5041	AGGATGGTCC	ACCCCCGGGG	TCGGCAGCCT	TCACGTGGGC	GGCGTGTATC	CAAGCTGCGA
5101	TGCCGTCTAC	TTTGAGGGCG	GTGGGGGTGG	TCAGCAGGAC	TGTGTAAGGT	CCTTTCCAGC
5161	GAGGTTCTAG	GTTCTTAGTC	TGGTGTGCGC	GGACCCACAC	TGTGTGCGCG	ACTCGGTAAG
5221	GGTGAGGTAC	CACCGGTCGG	TCCAGTTGTT	CTTGGTAGGC	TGCCGCCAGA	GGTCTCCAGA
5281	CTTCGTGCTG	GACTAAGTAG	AGAGCCTGTA	AGTGAGCTTG	GAGAGAGGGG	CTGTTAGTAA
5341	CTCTTGTCAT	GTCAGGGTCA	GGGAAGTTTA	CAAGGGGCGG	GGGTGCCCCA	TATAAGATCT
5401	CATATGGGGT	GAGGCCATGG	GGGCCCGGCG	TGTTGCGGGC	TCGGTACAGG	GCTAAGGGGA
5461	GTAGGAGCAC	CCAGTCTCTA	GAGCCAGTTG	CAAGCGTTAA	TTTAGTTAAA	GTCTCCTTGA
5521	TGGTTCTATT	CATTCTTTCT	ACCTGGCCTG	AGCTTTGGGG	TCTGTATGCA	CAATGTAATT
5581	TCCAATCAAT	CCCCAACAGA	TCGGCCACTG	TCTGACTCAC	CTTGGAGACG	AAGGCAGGCC
5641	CATTGTCACT	TCCCAATACC	TGAGGCATGC	CGAACCTGGG	GAAGATCTCC	TCTAGTAGCT
5701	TCTTGGTTAC	GACCTTGGCG	GTTTCTTTCT	TGGTTGGGAA	GGCTTCTATC	CAGCCAGAAA
5761	AGGTATCTAT	AAAAACTAGA	AGATATTTAT	AGCCATACAA	TCCGGGCTTT	ATCTCGGTGA
5821	AATCGATCTC	CCAATGAGTG	CCGGGCCGAT	GCCCCGCGAC	CCTAGTTCCC	TGTTTAACGG
5881	CAGACTTGCT	GGCGTTGACT	TGTGCACAAG	CTTTGCAGGT	CTCAGTGATA	TTTTTGAGTG
5941	TTCGATCCCG	GTTCAGCATG	TAGTAGGGAC	TGTGGCTTCT	CTCTAGGAGA	GCCTTCATTT
6001	TTGAGAAGCT	GAGGTGAGTC	AGCTGATGAA	GAAAGTCTAA	TAATTCAAAA	GTAAACTGGT
6061	CAGGCATCAC	AGGTTTTCTT	TGGTAGACCC	AATACTTCTT	TGTTTTATCA	TAAATGGCCC
6121	CCAAC TTGGT	TAGGTCTTTT	ATATCAGTCA	CTGTGTAATG	AAAATGTTCT	GAGGTGTAGG
6181	GTGATGAATT	TTCTATGAGG	AGGGTAGAGG	TGTCTGGAGT	CTCTGTGATG	GCTGCCTTTC
6241	GGGCCGCTTG	GTCAGCCATC	CGGTTGCCTC	TAGCCTCGGC	GCTGTGTCCC	TTTTGATGTC
6301	CTGGACAATG	GATTATGCTA	AGTCTTTTGG	GCAGAAAGAG	GGCTTTTAGT	AGGGCCAAGA
6361	TCTCGTCTTT	ATTTTGTATC	TCTTTGCCTT	CTGATGTGAG	CAACCCACGC	CTTCTGTATA
6421	TTTCTCCATG	GATATGGGCA	GTAGCAAAAAG	CATAACGGCT	ATCAGTATAA	ACATTTAGCT
6481	TCTTACCTTC	TGCCATCTTT	AGGGCCTGGG	TGAGTGCTAT	CAGTTCAGCC	CGCTGAGCGG
6541	ATGTCCCGGC	TGGCAGGGCT	TTAGCCCAGA	TTACCTCGGT	CTCGGTGGTC	ACCGCAGCTC
6601	CCGCCTTACG	CTGTCCCTCT	TGTAAGAGAC	TGCTTCCATC	CGTGTACCAG	GTGTGGTCCG
6661	CGTCTGGGAG	CGGCTGGTCC	GTTAGGTCGG	GTCGGGTTCG	GTGGGCTTCG	GCCAGGATAT
6721	CAAGGCAGTT	GTGTTGCAGC	CCTTCCTCAG	GCAGTGGGAG	CAGCGTAGCC	GGGTTCAGGG
6781	CTACCACCGG	TCCGAAC TGG	ACCCGGTCCG	TGTCCAAAAG	CAAGGCCTGA	TAGTGAGTCA
6841	TCCGGGCGTT	GGAAAGCCAG	CGGTGCGGGG	GTTGTTTGAC	TAGTGCCTCT	ACTGCATGGG
6901	GGGCCAGAAT	GACTAGTGGC	TGTCCCATGG	TTAGCTTGCC	TGCATCCTTT	GTCAGTACGG
6961	CAATGGCTGC	TACCATCCGT	AGGCAAGGGG	GCCACCCAGC	TGCTACTGGG	TCTAGCTTTT
7021	TGGACAGGTA	GGCCACCGGC	CGACGCCAAG	GTCCCAAGTT	TTGCGTTAGG	ACACCTTTGG
7081	CGTAGCCCTG	CTTCTCGTCG	ACAAAGAGTT	CAAAGGGCTT	AGTCAAATCT	GGCAACCCCA
7141	GGGCTGGGGC	AGTTAGAAGA	GCTTGCTTGA	TTTCTTGATA	GGCCTTTTGT	TGGTCTGGGC
7201	CCCAATTAAA	CAGAGTCCCC	GTTTTGGTGA	GAGGGTACAA	GGGGGCTGCC	ATTTCTGCAA
7261	ACCCAGGGAT	CCAGAGGCGA	CAGAAGCCTG	CCGTCCCTAG	GAATCCCTT	AGTTGTGCGAG
7321	GGGTCTTCGG	AGTAGGCTGC	CCCATCACAG	TCTCTTTTCT	GGCCTCAGTC	AGCCATCTCT
7381	GACCTCTTTT	TAGAAGATAC	CCCAGATACT	TGACCTGTTT	CTGGCAAATT	TGGGCTTTCT
7441	TGGCCGAGGC	CCGATACCCG	AGGTTCCTTA	GGGTTTGTA	CAGGGCCCGA	GTACCTTGTT
7501	GGCAGTCTAG	CTCAGAAGTG	GCGGCCAGCA	GTAAGTCATC	CACGTAAGTG	AGCAGGATCA
7561	AGTCTGGGTG	CTGGATCCGG	AAGTCTGCTA	GGTCTCTGTG	CAGTGCCTCA	TCAAACAGGG
7621	TGGGACTGTT	TTTGAAACCC	TGTGGGAGTC	TGGTCCAGGT	CAATTGTCCT	GAGATTCCCA
7681	TCTCTGGATC	TCTCCACTCA	AAGGCGAAGA	GAGGCTGACT	GGTGGGGTGG	AGTCTCAGGC
7741	AGAAAAAGGC	ATCCTTTAAA	TCAAGCACAG	TGTACCACTG	GTGGGACGGT	GGGAGCCCGC
7801	TCAAGAGGTT	GTAAGGGTTG	GGCACGGTGG	GGTGGATGTC	TTCCACCCGC	TTGTTGACTT
7861	CTCTCAGATC	CTGGACAGGC	CTATAATCAT	TAGTCCCTGG	TTTCTTAACG	GGTAGCAGGG

7921	GCGTGTTCCA	GGGGGACTGG	CAGGGTACCA	GTATTCCCTG	GTCCAACAGT	CTCTGTATGT
7981	GGGGCTTGAT	CCCCAGTCTG	GCTTCTTG TG	ACATGGGGTA	TTGTTTTATG	GACACGGGGG
8041	TAGAGGTTGC	TTTCAGAGGT	ATGATCAGAG	GAGCTTGCG	AACTGCCAGT	CCCATGCCCC
8101	CGGTTTCCGC	CCAGGCCTGA	GGAAAATCAG	ACAGCCATGT	GGACCCTAGA	GAAACATCTG
8161	GCTCTTTTGA	GGTCTCATGT	AGCCGATACT	CATCTTCTAT	ATTTAGGGTC	AACACTTGCA
8221	GGGGCTGCCC	CATTGGTCCC	ATAACCTGAG	CTCCTGATCC	CTCAAAGTGG	ATTTGGGCTT
8281	TTAGTTTAGT	CAGCAAATCT	CTTCCTAACA	GAGGATAGGG	ACAGTCTGGT	ACATGGAGGA
8341	AAGAGTGGGT	GACCTTACCG	GTAGCTAGAT	GTACTTTGCG	ATCCGTGGTC	CAGCGATACC
8401	GCTTTCCTCC	AGTAGCCCCT	TGGACCCAGG	CAGACTTATC	ACTTAGGGGT	CCAGGATTTT
8461	GGGTCAGCAC	GGAGTGTGG	GCCCCAGTAT	CTACCAGGAA	GGTGACGGGT	TGCCCCCCGA
8521	CTTTGAGGGT	TATCCTGGGT	TCAGGGGGGG	GCTCCTGACC	CTGACCTCCC	TAGTCATCTA
8581	GGGTCAGGAG	GGAGGTCTGG	GGTCTTG GTC	CCCGAGGTCC	TCGTGGTTTC	TTGGGACAAT
8641	CTTTAGCCCA	GTGCCCCTTT	TCTTTGCAGT	AGGCACACTG	GTGCGGATCG	AGTTGGGACC
8701	TCCTTCGTTC	TCCTCCCTGT	CTATCCTGTT	TCTGTCCACT	AACGACAGTG	GCCAATAGCT
8761	TGCTCATCTC	TCTATGTCTC	CTACGATCTC	TTTCTTTCTC	TTTCTGCTCA	TCCTCTGTCC
8821	TACGGCGTTC	TTCTTTTTC	TCTGTTTCTC	TCCTGATACG	TTCTCTCTTT	TCTTCCGGGG
8881	TTTCTCGTTT	ATTAAAGATC	TTTTCTGCCT	CTCTAACC AA	ATCTCCAAGC	GTCTTGTTTT
8941	TTAAATCTTC	TAACCTCTCT	AACTTTCTCC	CAATGTCTGG	GGCAGACTGC	CAAATGAAAG
9001	ACATAGACAC	ATTAGTTTCT	TGCCCTGGGT	CCTCAGGGTC	ATAAGGAGTG	TACCTGCGAT
9061	AGGCTTCCTT	AAGTCTCTCT	AGGAAGGCCG	AGGGAGACTC	ATTGGGCCCT	TGTGTTATTC
9121	CTTTTACCTT	GGCCAAATTG	GTGGGGCTTC	TGCCCGCGTT	TTGGAGACCC	GCTAGGAGCA
9181	ACTGGCGATA	GTGGACTAGG	TGGTTCCTAC	CTGCCTGGGT	GGTGTAATCC	CAGTCTGGGC
9241	GCTCGAGGGG	AAAAGCGGCA	TCGACTTCAT	TGGGCAGTTG	AGTGGGGCGC	CCATCATCGC
9301	CCCGCACCGC	CTTTCTAGCC	TCTAAGAGCA	CCCGTTGTTT	TTCTTCTCCG	GTCAGCAGAG
9361	TCCCCAACAG	CTGCTGACAG	TCGTCCCAGG	TGGGCTGATG	GGTGATGAGG	ACAGACTCGA
9421	TCAGAGCTGT	CAGTTTACCT	GGATCTTCAG	AAAAAGAAGG	GTTATTATTT	TTCCAGTTGT
9481	AAAGGTCAGA	AGAGGAGAAC	GGCCAGTATT	GAAGCTGTCC	GTTTCTCTCT	GCGCGGAGGG
9541	GGAATGCCTG	CGAGGTAGTG	GAGTCGGCCA	CAGGGGGCTC	CCGTCTCCCA	CGTAGGCGAG
9601	ATGCCATTGG	GGAGGGGTCC	GGTGCTCTCT	CCGCAGGGGT	CGCTTCTCCA	CCATTTCCGT
9661	CCCTGTCGGA	AGGGGGTGGT	CTTGGGTCCC	TATAAGGCGG	GGGGTCTTCT	GTAAGTAGGT
9721	CGATGAGCGG	CCCCCCTACTG	TCAGAAAGAA	CTTGAGGTTT	AGGTTTGGCG	CCTAGAGAAG
9781	GAGTGAGGGC	TGGATAAAGG	GAGGATCGAG	GCGGGGTCTG	ACGAGGAGGT	TCAAGGGGGA
9841	GAGACGGGGC	GGATGGAGGA	AGAGGAGGCG	GAGGCTTAGG	GTGTACAAAG	GGCTTGACCC
9901	AGGGAGGGGG	GTCAAAAGCC	AAGGCTTCCC	AGGTCACGAT	GTAGGGGACC	TGGTCTGGGT
9961	GTCCATGCGG	GCCAGGTGAA	AAGACCTTGA	TCTTAACCTG	GGTGATGAGG	TCTCGGTTAA
10021	AGGTGCCGTC	TCGCGGCCAT	CCGACGTTAA	AGGTTGGCCA	TTCTGCAGAG	CAGAAGGTAA
10081	CCCAACGTCT	CTTCTTGACA	TCTACCGACT	GGTTGTGAGC	GATCCGCTCG	ACATCTTTCC
10141	AGTGACCTAA	GGTCAAACTT	AAGGGAGTGG	TAACAGTCTG	GCCCATATTT	TCAGACAAAT
10201	ACAGAAACAC	AGTCAGACAG	AGACAACACA	GAACGATGCC	CAAGCTTGGC	CAGCTTACCT
10261	CCCGGTGGTG	GGTCGGTGGT	CCCTGGGCAG	GGGTCTCCCC	ATCCCCGACG	AGCCCCCAAA
10321	TGAAAGACCC	CCGCTGACGG	GTAGTCAATC	ACTCAGAGGA	GACCTTCCCA	AGGAACAGCG
10381	AGACCACAAG	TCGGATGCAA	CTGCAAGAGG	GTTTATTGGA	TACACGGGTA	CCCGGGCGAC
10441	TCAGTCAATC	GGAGGACTGG	CGCGCCGAGT	GAGGGGTTGT	GGGCTCTTTT	ATTGAGCTCT
10501	GCTTATATAG	ACCTCCCACC	GTACACGCCT	ACCGCCCAT	TGCGTCAATG	GGGCGGAGTT
10561	GTTACGACAT	TTTGAAAAGT	CCCGTTGATT	TTGGTGCCAA	AACAAACTCC	CATTGACGTC
10621	AATGGGGTGG	AGACTTGGA	ATCCCCGTGA	GTCAAACCGC	TATCCACGCC	CATTGATGTA
10681	CTGCCAAAAC	CGCATCACCA	TGGTAATAGC	GATGACTAAT	ACGTAGATGT	ACTGCCAAGT
10741	AGGAAAGTCC	CATAAGGTCA	TGTACTGGGC	ATAATGCCAG	GCGGGCCATT	TACCGTCATT
10801	GACGTCAATA	GGGGGCGTAC	TTGGCATATG	ATACACTTGA	TGTACTGCCA	AGTGGGCAGT
10861	TTACCGTAAA	TACTCCACCC	ATTGACGTCA	ATGGAAAGTC	CCTATTGGCG	TTACTATGGG
10921	AACATACGTC	ATTATTGACG	TCAATGGGCG	GGGGTCGTTG	GGCGGTCAGC	CAGGCGGGCC
10981	ATTTACCGTA	AGTTATGTAA	CGCGGAACTC	CATATATGGG	CTATGAACTA	ATGACCCCGT
11041	AATTGATTAC	TATTAATAAC	TAGTCAATAA	TCAATGTCAA	CGCGCTGGCG	TAATAGCGAA
11101	GAGGCCCGCA	CCGATCGCCC	TTCCCAACAG	TTGCGCAGCC	TGAATGGCGA	ATGGCGCCTG
11161	ATGCGGTATT	TTCTCCTTAC	GCATCTGTGC	GGTATTTTAC	ACCGCATATG	GTGCACTCTC
11221	AGTACAATCT	GCTCTGATGC	CGCATAGTTA	AGCCAGCCCC	GACACCCGCC	AACACCCGCT
11281	GACGCGCCCT	GACGGGCTTG	TCTGCTCCCG	GCATCCGCTT	ACAGACAAGC	TGTGACCGTC
11341	TCCGGGAGCT	GCATGTGTCA	GAGGTTTTCA	CCGTCATCAC	CGAAACGCGC	GAGACGAAAG
11401	GGCCTCGTGA	TACGCCTATT	TTTATAGGTT	AATGTCATGA	TAATAATGGT	TTCTTAGACG
11461	TCAGGTGGCA	CTTTTCGGGG	AAATGTGCGC	GGAACCCCTA	TTTGTTTATT	TTTCTAAATA
11521	CATTCAAATA	TGTATCCGCT	CATGAGACAA	TAACCTTGAT	AAATGCTTCA	ATAATATTGA
11581	AAAAGGAAGA	GTATGAGTAT	TCAACATTTT	CGTGTGCCCC	TTATTCCCTT	TTTTGCGGCA

	11641 TTTTGCCTTC CTGTTTTTGC TCACCCAGAA ACGCTGGTGA AAGTAAAAGA TGCTGAAGAT 11701 CAGTTGGGTG CACGAGTGGG TTACATCGAA CTGGATCTCA ACAGCGGTAA GATCCTTGAG 11761 AGTTTTTCGCC CCGAAGAACG TTTTCCAATG ATGAGCACTT TTAAAGTTCT GCTATGTGGC 11821 GCGGTATTAT CCCGTATTGA CGCCGGGCAA GAGCAACTCG GTCGCCGCAT ACACTATTCT 11881 CAGAATGACT TGGTTGAGTA CTCACCAGTC ACAGAAAAGC ATCTTACGGA TGGCATGACA 11941 GTAAGAGAAT TATGCAGTGC TGCCATAACC ATGAGTGATA ACACTGCGGC CAACTTACTT 12001 CTGACAACGA TCGGAGGACC GAAGGAGCTA ACCGCTTTTT TGCACAACAT GGGGGATCAT 12061 GTAACCTGCC TTGATCGTTG GGAACCGGAG CTGAATGAAG CCATACCAAA CGACGAGCGT 12121 GACACCACGA TGCCTGCAGC AATGGCAACA ACGTTGCGCA AACTATTAAC TGGCGAACTA 12181 CTTACTCTAG CTTCCCGGCA ACAATTAATA GACTGGATGG AGGCGGATAA AGTTGCAGGA 12241 CCACTTCTGC GCTCGGCCCT TCCGGCTGGC TGGTTTATTG CTGATAAATC TGGAGCCGGT 12301 GAGCGTGGGT CTCGCGGTAT CATTGCAGCA CTGGGGCCAG A
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