Sequencing results of pCEPO

Appendix 8.2

BLAST results for pCEPO plasmid

Accession	Description	Max score	Total score	Query coverage	▲ E value	Max ident	Links		
Transcripts									
NM 000799.2	Homo sapiens erythropoietin (EPO), mRNA	<u>865</u>	865	90%	0.0	99%	UEGM		
Genomic sequences [show first]									
NW 001839065.2	Homo sapiens chromosome 7 genomic contig, alternate assembly	<u>337</u>	797	82%	9e-90	100%			
NT 007933.14	Homo sapiens chromosome 7 genomic contig, reference assemb	<u>337</u>	797	82%	9e-90	100%			

BLAST results for pCEPO plasmid

```
> ref[NM 000799.2] UEGM Homo sapiens erythropoietin (EPO), mRNA
Length=1340
GENE ID: 2056 EPO | erythropoietin [Homo sapiens] (Over 100 PubMed links)
Score = 865 bits (468), Expect = 0.0
Identities = 471/472 (99%), Gaps = 1/472 (0%)
Strand=Plus/Plus
Query 10
        GAGT-CTGGAGAGGTACCTCTTGGAGGCCAAGGAGGCCGAGAATATCACGACGGGCTGTG
         Sbjct 291
        GAGTCCTGGAGAGGTACCTCTTGGAGGCCAAGGAGGCCGAGAATATCACGACGGGCTGTG
                                                      350
Querv 69
        CTGAACACTGCAGCTTGAATGAGAATATCACTGTCCCAGACACCAAAGTTAATTTCTATG
         CTGAACACTGCAGCTTGAATGAGAATATCACTGTCCCAGACACCAAAGTTAATTTCTATG
                                                      410
Sbjct 351
        CCTGGAAGAGGTCGGGCAGCAGCCGTAGAAGTCTGGCAGGGCCTGGCCCTGC
Query 129
        Sbict
     411
        CCTGGAAGAGGTCGGGCAGCAGCCGTAGAAGTCTGGCAGGGCCTGGCCCTGC
Querv 189
        TGTCGGAAGCTGTCCTGCGGGGCCAGGCCCTGTTGGTCAACTCTTCCCAGCCGTGGGAGC
         TGTCGGAAGCTGTCCTGCGGGGCCAGGCCCTGTTGGTCAACTCTTCCCAGCCGTGGGAGC
                                                      530
Sbjct 471
Query 249
        CCCTGCAGCTGCATGTGGATAAAGCCGTCAGTGGCCTTCGCAGCCTCACCACTCTGCTTC
                                                      308
        CCCTGCAGCTGCATGTGGATAAAGCCGTCAGTGGCCTTCGCAGCCTCACCACTCTGCTTC
Query
     309
        GGGCTCTGGGAGCCCAGAAGGAAGCCATCTCCCCTCCAGATGCGGCCTCAGCTGCTCCAC
                                                      368
         GGGCTCTGGGAGCCCAGAAGGAAGCCATCTCCCCTCCAGATGCGGCCTCAGCTGCTCCAC
Sbjct
                                                      650
        TCCGAACAATCACTGCTGACACTTTCCGCAAACTCTTCCGAGTCTACTCCAATTTCCTCC
Query
     369
                                                      428
         TCCGAACAATCACTGCTGACACTTTCCGCAAACTCTTCCGAGTCTACTCCAATTTCCTCC
Query 429
        GGGGAAAGCTGAAGCTGTACACAGGGGAGGCCTGCAGGACAGGGGACAGATG
         GGGGAAAGCTGAAGCTGTACACAGGGGAGGCCTGCAGGACAGGGGACAGATG
```

Multiple alignment results of pCEPO

Sequencing results of pCEPOKDEL

Multiple alignment results of pCEPOKDEL

Sequencing results of a transformant bombarded with pCEPO

Sequencing results of a transformant bombarded with pCEPOKDEL

Appendix 8.8 BLAST results of a transformant bombarded with pCEPO

Accession	Description	Max score	Total score	Query coverage	△ E value	Max ident	Links	
Transcripts		,				,		
NM 000799.2	Homo sapiens erythropoietin (EPO), mRNA	207	207	39%	4e-51	99%	UEGM	
Genomic sequences [show first]								
NW 001839065.2	Homo sapiens chromosome 7 genomic contig, alternate assembly	<u>161</u>	161	29%	3e-37	100%		
NT 007933.14	Homo sapiens chromosome 7 genomic contig, reference assemb	<u>161</u>	161	29%	3e-37	100%		

Appendix 8.9

BLAST results of a transformant bombarded with pCEPOKDEL

Sbjct 408

Accession	Description	Max score	Total score	Query coverage	△ E value	Max ident	Links	
Transcripts						,		
NM 000799.2	Homo sapiens erythropoietin (EPO), mRNA	<u>187</u>	187	38%	5e-45	97%	UEGM	
Genomic sequences [show first]								
NW 001839065.2	Homo sapiens chromosome 7 genomic contig, alternate assembly	<u>134</u>	196	38%	6e-29	100%		
NT 007933.14	Homo sapiens chromosome 7 genomic contig, reference assemb	<u>134</u>	196	38%	6e-29	100%		

ATGCCTGGAAGAGGTGGAGGTCGGGCAGCAGGCCGTAGAAGTCTGGCAGG 458

Multiple alignment results of a transformant bombarded with pCEPO

Multiple alignment results of a transformant bombarded with pCEPOKDEL