

Product datasheet for RR212980

Epo (NM_017001) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Epo (NM_017001) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Epo
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR212980 representing NM_017001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGTGCCCGAACGTCACCCCTGCTGCTTTTACTATCCTTGCTACTGATTCCTCTGGGCCTCCAG
 TCCTCTGCGCTCCCCACGCCTCATTTGCGACAGTCGCGTTCTGGAGAGGTACATCTTGGAGCCAAGGA
 GGCAGAAAATGTCACAATGGGCTGTGCAGAAAGTCCAGACTGAGTGAGAATATTACCGTCCAGATACC
 AAAGTCAACTTCTACGCTTGAAAAGAATGAAGGTGGAAGAACAGGCTGTAGAAGTTGGCAAGGCCTGT
 CTCTGCTCTCAGAAGCCATCCTGCAGGCCAGGCTCTGCAGGCCAATTCCTCCAGCCACCAGAGAGTCT
 TCAGCTTCATATAGACAAAGCCATCAGTGGGCTACGTAGCCTCACTTCACTGCTTCGGGTCTGGGAGCT
 CAGAAGGAATTGATGTCGCCTCCAGACGCCACCAAGCCGCTCCACTCCGAACACTCACAGCGGATACTT
 TCTGCAAGCTCTCCGGTCTACTCCAACTTCTCCGGGGAACTGAAGCTGTACACGGGGGAGGCCTG
 CAGGAGAGGGGACAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212980 representing NM_017001
 Red=Cloning site Green=Tags(s)

MGVPERPTLLLLLLLLL IPLGLPVL CAPPRLICDSRVLERYILEAKEAENVTMGCAEGPRLSENITVPDT
 KVNIFYAWKRMKVVEEQAVEVWQGLSLLSEAILQAQALQANSSQPPELQLHIDKAI SGLRSLTSLLRVLGA
 QKELMSPDPATQAAPLRLTADTFCKLFRVYSNFLRGKLLKLYTGEACRRGDR

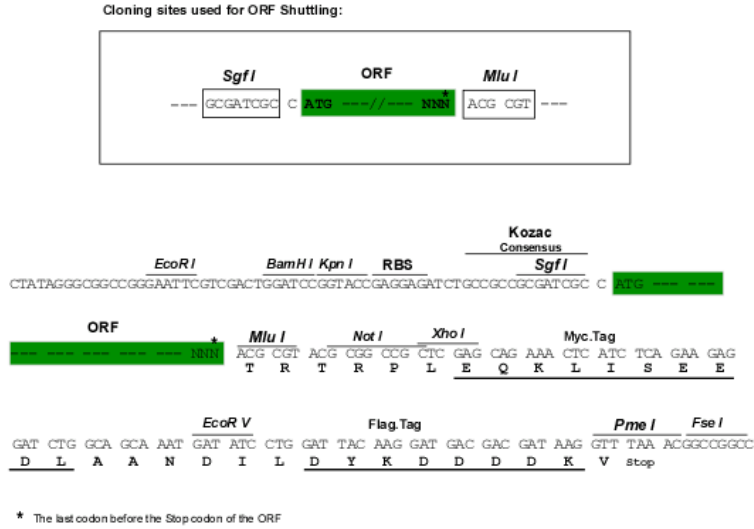
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

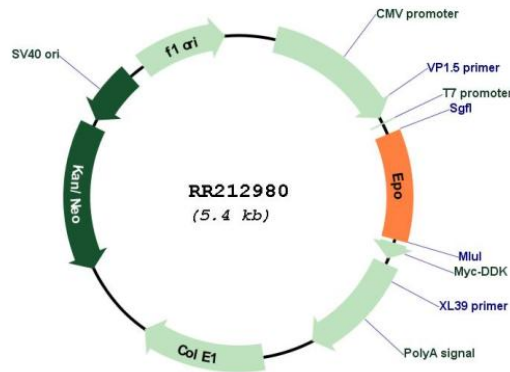


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Cloning Scheme:



Plasmid Map:



ACCN: NM_017001
 ORF Size: 576 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_017001.1 , NP_058697.1
RefSeq Size:	1395 bp
RefSeq ORF:	579 bp
Locus ID:	24335
UniProt ID:	P29676
Cytogenetics:	12q12
MW:	21.3 kDa
Gene Summary:	acts as a regulator of erythropoiesis; may facilitate oxygen delivery in response to hypoxia [RGD, Feb 2006]