

Product datasheet for **SC125341**

EPO (NM_000799) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPO (NM_000799) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPO
Synonyms:	DBAL; ECYT5; EP; MVCD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125341 sequence for NM_000799 edited (data generated by NextGen Sequencing)

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ATGGGGGTGCACGAATGCTCCTGGCTGTGGCTTCTCCTGTCCCTGCTGTCGCTCCCT
CTGGGCCTCCCAGTCCTGGGCGCCCCACCACGCCTCATCTGTGACAGCCGAGTCCTGGAG
AGGTACCTCTTGGAGGCAAGGAGGCCGAGAATATCACGACGGGCTGTGCTGAACACTGC
AGCTTGAATGAGAATATCACTGTCCCAGACACCAAAGTTAATTTCTATGCCTGGAAGAGG
ATGGAGGTCGGGCAGCAGGCCGTAGAAGTCTGGCAGGGCCTGGCCCTGCTGTGCGAAGCT
GTCCTGCGGGGCCAGGCCCTGTTGGTCAACTCTTCCCAGCCGTGGGAGCCCTGCAGCTG
CATGTGGATAAAGCCGTCAGTGGCCTTCGCAGCCTCACCCTCTGCTTCGGGCTCTGGGA
GCCCAGAAGGAAGCCATCTCCCCTCCAGATGCGGCCTCAGCTGCTCCACTCCGAACAATC
ACTGCTGACACTTTCGCAAACCTTCCGAGTCTACTCCAATTTCTCCGGGGAAAGCTG
AAGCTGTACACAGGGGAGGCCTGCAGGACAGGGGACAGATGA
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Clone variation with respect to NM_000799.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000799 unedited GACCTACTATATGGCGGCCGGAATTCGAGATGGGGGTGCACGAATGTCCTGCCTGGCTG TGGCTTCTCTGTTCTGCTGTCGCTCCCTCTGGGCTCCCAGTCTGGGCGCCCCACCA CGCCTCATCTGTGACAGCCGAGTCTGGAGAGGTACCTCTTGGAGGCAAGGAGGCCGAG AATATCACGACGGGCTGTGCTGAACACTGCAGCTTGAATGAGAATATCACTGTCCCAGAC ACCAAAGTTAATTTCTATGCCTGGAAGAGGATGGAGGTCGGGCAGCAGGCCGTAGAAGTC TGGCAGGGCCTGGCCCTGCTGTGCGAAGCTGTCTGCGGGGCCAGGCCCTGTTGGTCAAC TCTTCCCAGCCGTGGGAGCCCTGCAGCTGCATGTGGATAAAGCCGTCACTGGCCTTCGC AGCCTCACCCTGCTTTCGGGCTCTGGGAGCCAGAAGGAAGCCATCTCCCCTCCAGAT GCGGCCTCAGCTGCTCCACTCCGAACAATCACTGCTGACACTTTCGCAAACTCTTCCGA GTCTACTCCAATTTCTCCGGGAAAGCTGAAGCTGTACACAGGGGAGGCCTGCATGACA GGGACAGATGACCAGGCTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAAC AGATCCCCGGTGGGATTCTGGTGACCCCTCCCCAGTGCCTTTTCGGGCCCTGGAAGTTG GCACTCCGTGGCCAACCAACCTGGCCTAATAAAATTAATGCACCATTTGTCTGACAGGG G</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000799 unedited CCGTGGCGCATTGGNGATGGCACTTCCCAGNCCGGNGAAAGCACTGGGGNAGTGGGTCA CAGGGCATGCCACCCGGTTCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAG TCGAGCCTGGTCATCTGTCCCCTGCTCCTGCAGGCCTCCCCTGTGTACAGCTTCAGCTTTC CCCGGAGGAAATTGGAGTAGACTCGGAAGAGTTTTCGGAAAGTGTACAGCAGTGATTGTTT GGAGTGGAGCAGCTGAGCCGCATCTGGAGGGGAGATGGCTTCTTCTGGGCTCCCAGAG CCCGAAGCAGAGTGGTGAGGCTGCGAAGGCCACTGACGGCTTTATCCACATGCAGCTGCA GGGGCTCCACAGGCTGGGAAGAGTTGACCAACAGGGCCTGGCCCCGCANGACAGCTTCCG ACAGCAGGGCCAGGCCCTGCCAGACTTCTACGGCCTGCTGCCCGACCTCCATCCTTCC AGGCATAGAAATTAACCTTGGTGTCTGGGACAGTGATATTCTCATTCAAGCTGCAGTGTT CAGCACAGCCCGTCGTGATATTCTCGGCCTCCTTGGCCTNCAAGAGGTACCTCTCCANGA CTCGGCTGTACAGATGAGGCGTGGTGGGGCGCCAGNACTGGGAGGCCAGAGGGAGCG ACAGCAGGGACAAGAGAAGCACAGCCAGGCAGGACATTCGTGCACCCCCATCTCGAATTC GCGGCCCGCCTATAGTGAGTCGTATTACAAAATCTGACGGTTCCTAAACGAGCTCTGC TTATTTTAGACCTCCAACCGTCACGCCTACCGGCCATTTTCCGTTACGGGGCCGGGNTT ATTACAACATTTTGGGAAAGTCCCTTTGATTTTGGTGCCCAAAACAACTCCCCTTGTC TTCAAGGGGGTTGAAAATA</p>
Restriction Sites:	Please inquire
ACCN:	NM_000799
Insert Size:	640 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000799.2 , NP_000790.2
RefSeq Size:	1340 bp
RefSeq ORF:	582 bp
Locus ID:	2056
UniProt ID:	P01588
Cytogenetics:	7q22.1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
Gene Summary:	<p>This gene encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The encoded protein is mainly synthesized in the kidney, secreted into the blood plasma, and binds to the erythropoietin receptor to promote red blood cell production, or erythropoiesis, in the bone marrow. Expression of this gene is upregulated under hypoxic conditions, in turn leading to increased erythropoiesis and enhanced oxygen-carrying capacity of the blood. Expression of this gene has also been observed in brain and in the eye, and elevated expression levels have been observed in diabetic retinopathy and ocular hypertension. Recombinant forms of the encoded protein exhibit neuroprotective activity against a variety of potential brain injuries, as well as antiapoptotic functions in several tissue types, and have been used in the treatment of anemia and to enhance the efficacy of cancer therapies. [provided by RefSeq, Aug 2017]</p>