

Specifications:

Gene:	<i>h</i> EPOR
Accession:	NP_000112
Insert size:	1540bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

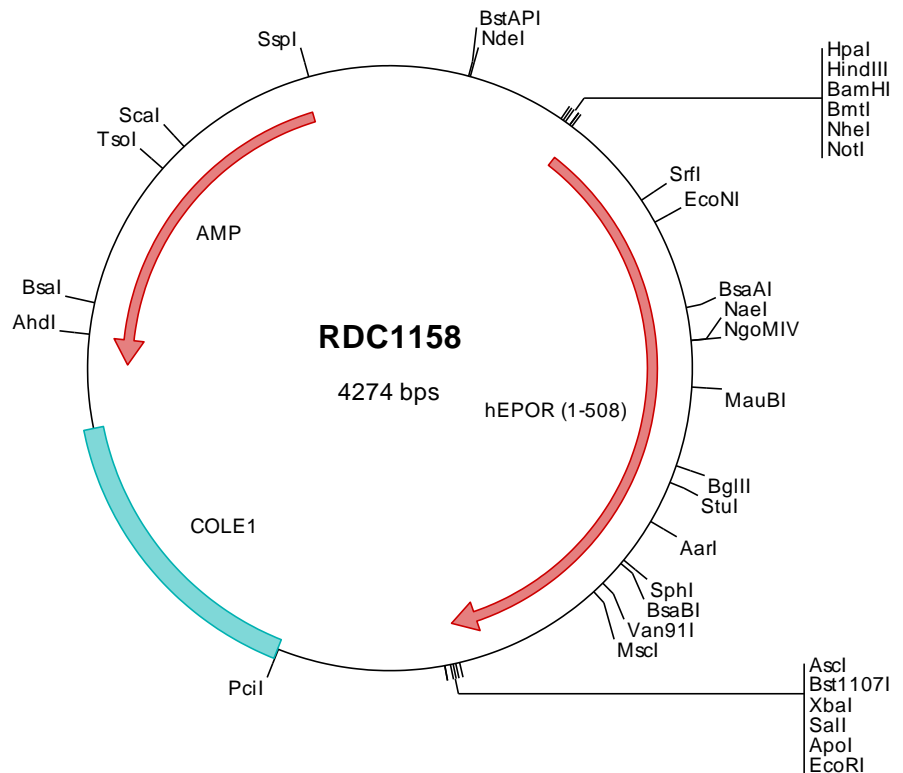
*h*Erythropoietin R cDNA Plasmid

EPOR erythropoietin receptor
[*Homo sapiens* (human)]

Also known as: EPO-R

Summary:

EPOR is the erythropoietin receptor and is a member of the cytokine receptor family. Erythropoietin, a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells. Upon erythropoietin binding, EPOR activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. Defects in EPOR may produce erythroleukemia and familial erythrocytosis. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1158 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcacgcccgtg ttggcgggtg tccggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgcc accatattgct ggtgtaaata
201 ccgcacagat gcgtaagagag aaaataaccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttccagctc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atggaccacc tggcgcgcto cctctggccc caggctggct ccctttgtct
501 cctctcgtct gggcgccctt gggcgccccc gcctaaccctc ccggaccoca agttcgagag caaagcggcc ttgctggcgg cccggggggcc cgaagagctt
601 ctgtgcttca ccgagcgggtt ggaggacttg gtgtgtttct gggaggaagc ggcgagcgtt ggggtgggccc cgggcaacta cagcttctcc taccagctcg
701 aggatgagcc atggaagctg tctgcctgc accaggctcc cacggctcgt ggtcgggtgc gcttctggtg ttcgctgctt acagccgaca cgtcagctt
801 cgtgccccta gatttgccg tcacagcagc ctccggcgct ccgcgatac accgttgcct ccacatcaat gaagttagtgc tctagacgc cccgtgggg
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2001 tcgacaccgc gggaaattcct cgagcgtctg tctctagctt ggcgtaatca tggctatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca
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2201 gaaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc gctctccgc ttcctcgtc actgactcgc
2301 tgcctcgtt cgttcgcttca cggcagcggc tatcagctca taccaaaggc gtaatacggg gtaatacggg gtaatacggg gtaatacggg gtaatacggg
2401 agcaaaaaggc cagcaaaaagg ccaggaaccg taaaaaggcc gcgttgcgtg cgtttttcca taggtcctgc ccccctgacg agcatcaca aatcagacc
2501 tcaagtcaga ggtggcga aaa cccgacagga ctataaagat accagcgtt tccccctgga agctccctc tgcctctcc tgtttccgac ctgcccctta
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2701 gggctggtg cagcaacccc ccgttcagcc cgaccgctgc gccctatccg gtaactatcg tcttgagctc aaccggtaa gacacgact atcgcactg
2801 gcagcagcca ctggttaacg gattagcaga cgcaggtatg taggcggtgc tacagagttc ttgaagtggt ggcttaacta cggctacact agaaggacag
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3001 tgtttgcaag cagcagatta cgcgcagaaa aaaagatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaaaca aaactcacgt
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> RDC1158 Translated Insert Sequence

1 mdhlgaslwp qvgsicllla gaawappnl pdpkfeskaa llaarqpeel lcfterledl vcfweeaasa gvpgpnysfs yqledepwkl crlhqaptar
101 gavrfwcslp tadtssfvpl elrvtaasga pryhrvihin evllldapvg lvarladesg hvvlrwlppp etpmtshiry evdvsangna gsvqrveile
201 grtecvlsln rgrtrytfav rarmaepsfg gfwsawsepv sltspsdldp liltlslilv vilvlltvlv llshrralkq kiwpgipspe sefeglfth
301 kgnfqlwlyq ndgclwvpc tpftedppas levlsercwg tmqavepugd degpllepvg sehaqdtylv ldkwllprnp psedlpggg svdivamdeg
401 seasscssal askpspegas aasfeytild pssqllrpwt lcpelpptpp hlkylylvvs dsgistdyss gdsqgaqggl sdgpnynpye nslipaaapl
501 ppsyvacs