

Product datasheet for **RG211341**

EPOR (NM_000121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPOR (NM_000121) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPOR
Synonyms:	EPO-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211341 representing NM_000121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCACCTCGGGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTGTCTCCTGCTCGTGGGGCCGCCT
 GGGCGCCCCCGCCTAACCTCCCGAGCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGCCCGGGGGCC
 CGAAGAGCTTCTGTGCTTACCCGAGCGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGCGAGCGCT
 GGGGTGGGCCCGGCAACTACAGCTTCTCTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGC
 ACCAGGCTCCCACGGCTCGTGGTGCCTTCTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTT
 CGTGCCCTTAGAGTTGCGCGTCACAGCAGCCTCCGGCGCTCCGCGATACACCGTGTATCCACATCAAT
 GAAGTAGTCTCCTAGACGCCCCGTGGGGCTGGTGGCGCGTGGCTGACGAGAGCGGCCACGTAGTGT
 TGCCTGGCTCCCGCCCTGAGACACCCATGACGTCTCACATCCGCTACGAGGTGGACGCTCTCGGCCGG
 CAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGACCGAGTGTGTGCTGAGCAACCTG
 CGGGGCCGAGCGCTACACCTTCGCCCTCCGCGCGCTATGGCTGAGCCGAGCTTCGGCGGCTTCTGGA
 GCGCCTGGTCCGAGCCTGTGTGCTGCTGACGCCTAGCGACCTGGACCCCTCATCTGACGCTCTCCCT
 CATCTCGTGGTTCATCTGGTGTGCTGACCGTGTGCTGCTCTCCACCGCCGGGCTCTGAAGCAG
 AAGATCTGGCCTGGCATCCCGAGCCAGAGAGCGAGTTTGAAGGCCTCTTACCACCCACAAGGGTAACT
 TCCAGCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCTGCACCCCTTACGGAGGACCC
 ACCTGCTTCCCTGGAAGTCTCTCAGAGCGCTGCTGGGGACGATGCAGGCAGTGGAGCCGGGACAGAT
 GATGAGGGCCCCCTGCTGGAGCCAGTGGCAGTGCATGCCAGGATACCTATCTGGTGTGGACAAAT
 GGTTGCTGCCCGGAACCCAGTGGAGACCTCCAGGGCTGGTGGCAGTGTGGACATAGTGGCCAT
 GGATGAAGGCTCAGAAGCATCCTCCTGCTCATCTGCTTTGGCCTCGAAGCCAGCCAGAGGGAGCCCTCT
 GCTGCCAGCTTTGAGTACACTATCCTGGACCCAGCTCCAGCTCTTGCCTCCATGGACACTGTGCCCTG
 AGCTGCCCCCTACCCACCCACCTAAAGTACCTGTACCTTGTGGTATCTGACTCTGGCATCTCAACTGA
 CTACAGCTCAGGGGACTCCAGGGAGCCCAAGGGGCTTATCCGATGGCCCTACTCCAACCCCTTATGAG
 AACAGCCTTATCCAGCCGCTGAGCCTCTGCCCCAGCTATGTGGCTTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211341 representing NM_000121
 Red=Cloning site Green=Tags(s)

MDHLGASLWPQVGSCLLLLAGAAWAPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASA
 GVGPGNYSFSYQLEDEPWKLCRLHQAPTARGAVRFWCSLPTADTSSFPLELRVTAASGAPRYHRVIHIN
 EVVLLDAPVGLVARLADESGHVLRWLPPEPMTSHIRYEVDSAGNGAGSVQRVEILEGRTECVLSNL
 RGRTRYTF AVRARMAEPSFGGFWSAWSEPVSLLTPSDLPLILTLISLILVVILVLLTVLALLSHRRALKQ
 KIWP GIPSESEFEGLFTTHKGNFQLWL YQNDGCLWSPCTPFTEDPPASLEVL SERCWGTMQAVEPGTD
 DEGPLEPVGSEHAQD TYLVLDKWL PRNPPSEDLP GPGGSVDIVAMDEGSEASSSSALASKPSPEGAS
 AASFEYTI LDPSSQLLRPWTLCPELPPTPHLKYLYLVSDSGISTDYSSGDSQGAQGGLS DGPYSNPYE
 NSLIPAAEPLPPSYVACS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000121

ORF Size: 1524 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

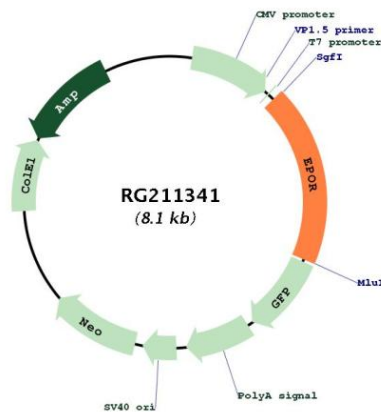
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_000121.4](#)

RefSeq Size:	2459 bp
RefSeq ORF:	1527 bp
Locus ID:	2057
UniProt ID:	P19235
Cytogenetics:	19p13.2
Domains:	FN3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
Gene Summary:	This gene encodes the erythropoietin receptor which is a member of the cytokine receptor family. Upon erythropoietin binding, this receptor activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated erythropoietin receptor appears to have a role in erythroid cell survival. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Dysregulation of this gene may affect the growth of certain tumors. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Product images:



Circular map for RG211341