

Product datasheet for **MG208157**

Epor (NM_010149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epor (NM_010149) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208157 representing NM_010149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAACTCAGAGTGCCCTCTGGCCTCGGGTAGGCCCTCTGTCTCTACTTGTCTGGGGCAGCCT
 GGGCACCTTCAACCAGCCTCCCGACCCCAAGTTTGAGAGCAAAGCGGCCCTGCTGGCATCCCGGGGCTC
 CGAAGAATTCTGTGCTTCAACCAACGCTTGAAGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCTCC
 GGGATGGACTTCAACTACAGTTCTCATACCAGCTCGAGGGTGAGTACGAAAAGTCATGTAGCCTGCACC
 AGGCTCCACCGTCCGCGGCTCCGTGCGTTTCTGGTGTTCACTGCCAACAGCGGACACATCGAGTTTTGT
 GCCGCTGGAGCTGCAGGTGACGGAGGCGTCCGGTTCTCCTCGCTATCACCGCATCATCCATCAATGAA
 GTAGTGCTCTGGACGCCCGCGGGGCTGCTGGCGCGCCGGCAGAAGAGGGCAGCCACGTGGTGTCTGC
 GCTGGCTGCCACCTCCTGGAGCACCTATGACCACCCACATCCGATATGAAGTGGACGTGTCGGCAGGCAA
 CCGGGCAGGAGGGACACAAGGGTGGAGTCTGGAAGGCCGACTGAGTGTGTTCTGAGCAACCTCGCG
 GCGGGGACGCGCTACACCTTCGCTGTTGAGCGCGCATGGCCGAGCCGAGCTTACAGCGATTCTGGAGTG
 CCTGGTCTGAGCCCGCTCACTACTGACCGCTAGCGACCTGGACCCTCTCATCTTGACGCTGTCTCTCAT
 TCTGGTCTCATCTCGTTGTTGCTGACGGTTCTGGCCCTGCTGTCCCACCGCCGGACTCTGCAGCAGAAG
 ATCTGGCTGGCATCCCAAGCCAGAGAGCGAGTTTGAGGGTCTCTTACCACCCACAAGGGTAACTTCC
 AGCTGTGGCTGCTGCAGCGTGATGGTTGTCTGTGGTGGAGCCCGGGCAGCTCCTTCCCTGAAGATCCACC
 TGCCACCTAGAGGTCTCTCAGAGCCACGCTGGGCAGTTACTCAGGCTGGGGACCCAGGGGACAGATGAT
 GAGGGGCCCTTACTGGAGCCGGTGGGCAGTGAGCATGCCAGGACACCTACTTGGTATTGGATAAGTGGT
 TGCTGCCCGGACCCCATGCAGTGAGAACCTCTCAGGGCCTGGGGCAGTGTGGACCTGTGACTATGGA
 TGAAGCTTCAGAAACATCTTCTGCCCGTCTGACTTGGCCTCAAAGCCAGGCCAGAGGGCACCTCACCT
 TCCAGCTTGTGAGTACACCATCCTGGACCCAGCTCTCAGCTCCTGTGCCCTCGGGCACTGCCTCCCGAGC
 TACCTCCCACTCCACCTCACTTGAAGTACCTATACCTTGTGGTGTCCGATTCTGGCATCTCAACAGATTA
 CAGTTCGGGGGCTCTCAGGGAGTCCACGGGGACTCATCTGATGGCCCTACTCCACCCCTATGAGAAC
 AGCCTTGTCCAGACTCAGAGCCTCTGCATCCCGGCTATGTGGCCTGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208157 representing NM_010149
 Red=Cloning site Green=Tags(s)

MDKLRVPLWPRVGPLCLLLAGAAWAPSPSLPDPKFESKAALLASRGSEELLCTFQRLEDLVCFWEEAASS
 GMDFNYSFSYQLEGESESRKSCSLHQAPTVRGSRVFWCSLPTADTSSFVPLELQVTEASGSPRYHRIIHINE
 VVLLDAPAGLLARRAEEGSHVLRWLPPPAPMTTHIRYEVDSAGNRAGGTQRVEVLEGRTECVLSNLR
 GGTRYTFAVRRARMAEPSFSGFWSAWSEPAALLTASDLPLILTLISLILVLSLLLTVLALLSHRRTLQOK
 IWPGIPSESEFEGLFTTHKGNFQLWLLQRDGLWSPGSSFPEDPPAHLEVLSEPRWAVTQAGDPGADD
 EGPLLEPVGSEHAQDTYLVLDKWLPRTPCSENLSGPGGSVDPVTMDEASETSSCPSDLASKPRPEGTSP
 SSFEYITLDPSSQLLCPRALPELPPTPPHLKLYLVVSDSGISTDYSSGGSQGVHGDSSDPYPYSHPYEN
 SLVPDSEPLHPGYVACS

TRTRPLE - GFP Tag - V

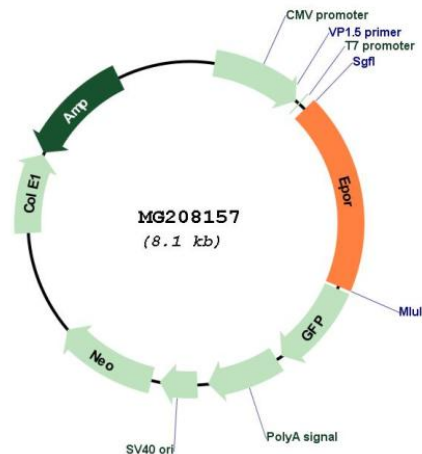
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010149

ORF Size: 1521 bp

OTI Disclaimer: 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_010149.3](#), [NP_034279.3](#)

RefSeq Size: 1829 bp

RefSeq ORF: 1524 bp

Locus ID: 13857

UniProt ID: [P14753](#)

Cytogenetics: 9 7.93 cM

Gene Summary: Receptor for erythropoietin. Mediates erythropoietin-induced erythroblast proliferation and differentiation. Upon EPO stimulation, EPOR dimerizes triggering the JAK2/STAT5 signaling cascade. In some cell types, can also activate STAT1 and STAT3. May also activate the LYN tyrosine kinase.[UniProtKB/Swiss-Prot Function]