

## Product datasheet for **MG215396**

### Epx (NM\_007946) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Epx (NM_007946) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epx
Synonyms:	E; EPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG215396 representing NM\_007946  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGCAGCAGCTTCTGGCCCTGGTAGGGCCCTTAGCCACACTCATCCTCACCCAAACACGCTGAAGGCA  
 CTGCCCCAGCTTCCCCAGTCCAGTGGAGATTTAGTCCTTCGAGACTGCATAGCAGAGGCTAAGCTGCT  
 GGTGGACTGCCTACAATCACACACAGAAAAGCATCATGCAACGCTTCGCAAGTGGCTCGGCCAGCCCC  
 ATGGACCTCCTGGCCTACTTCAAACAGCCAGTAGCAGCCACCAGAAGAGTGGTTACAGGCCGCTGATTATA  
 TGCATGTGGCCTTAGGGCTGCTAGAAGAGAGGCTGCAGCCACGGGGATCTAGACCCTTCAATGCCACTGA  
 TGTGCTCACAGAACCACAGCTGCGCCTGCTGTCCAGGCCAGTGGCTGTGCTCTCCAGGACCAGGCTGAG  
 AGGTGCAGCAACAAGTACCGAACATAACAGGGAGATGCAACAACAAGAAGCATCCCTGGCTGGGAGCCT  
 CCAACCAGGCCCTGGCCCGCTGGCTGCCAGCTGAGTATGAAGACCACAGGTCTCTCCCTTTGGCTGGAC  
 CCCTGGAAGAGGCGTAATGGCTTCTGCTTCTCTTGTCCGGGATGTCTCCAATCAGATTGTGCGCTTC  
 CCCAGCAAGAAACTGACCTCAGACCAGCCGGCCGGCCCTTATGTTTCAGTGGGGCCAGTTCATCGACC  
 ATGACCTGGACTTCTCCCGGAGTCCCCAGCCAGAGTGGCCTTACAGATGGGTGTGGACTGTGAGAAGAC  
 CTGTGCCAGCTGCCCCCTGCTTCCCCATCAAGATCCCACGCAATGATCCCCGCATCAAGAACCAGCGC  
 GACTGCATCCCCTTCTCCGCTCTGCCCGGCGTCCCCCAAAACAGGAACAAAGTCCGCAACCAGATCA  
 ACGCACTTACATCCTTCGTGGACGCCAGCATGGTGTATGGCAGCGAGGTGACCCCTCGCCCTGCGGCTCCG  
 TAATAGGACCAACTTCTGGGGCTGTGGCCACGAACCAGCGATTCCAGGACAACGGTCGAGCCCTACTG  
 CCTTTTGACAACCTGCATGAGGACCCCTGTCTCCTGACTAACCCTCTGCACGCATCCCCTGCTTCTCTGG  
 CAGGTGACACTCGGTCAAGTAAAACCCCAAACTGACGGCCTTGACACAGCTGTTTGTGAGAGAACACAA  
 TCGCCTAGCCGCTGAGCTGAGGCGCCTGAATCCCCACTGGAGTGGAGACAAGCTGTACAACGAAGCCCGG  
 AAGATCGTGGGAGCCATGGTCCAGATCATCACCTACCGAGACTTCTGCCTCTGGTTCTGGGCAGGGCCC  
 GGATCAGAAGAACTTTGGGTCCCTACAGAGGGTATTGCTCCAATGTGGACCCCGGTGAGCCAATGTTTT  
 CACCCTGGCCTTCCGCTTTGGCCACACCATGCTTCAGCCCTTCATGTTCCGCCTGGATAGCCAGTATCGG  
 GCCTCGGCACCCAACCTCCACGTCCTGCTAGCTCTGTATTCTTTGCCAGCTGGCGAATCATACATGAAG  
 GTGGCATCGACCCTATCCTCCGAGGTCTCATGGCCACCCAGCTAAGCTGAACCGGCAGGATTCCATGCT  
 GGTGGATGAGCTCCGCGACAAGCTGTTTCAGCAAGTGAGAAGGATCGGGCTGGATCTGGCAGCTCTGAAC  
 ATGCAGCGCAGCCGGGACCACGGCCTTCCAGGATACAATGCCTGGAGACGCTTCTGTGGGCTTTCCAGC  
 CCCGAAACTTGGCCAGCTTAGTCGGGTGCTAAAAATCAGGATTTGGCAAGGAAGTTTCTGAGACTGTA  
 CAAGACGCCCCGACAACATTGACATCTGGGTCCGAGCCATTGCGGAGCCTCTCTGCGGGGGCCCGAGTG  
 GGGCCGCTTCTGGCTTGTCTTTTGGAAACAGTTGAGGAGAGCCAGAGATGGAGACAGATTCTGGTGGC  
 AGAAATGGGGAGTTTTACCAAAGACAACGCAAGCCCTGAGGCGAATCTCTTTATCTCGGATTGTATG  
 CGACAATACTGGCATACCACGGTTTTCGAGGGACATCTCAGGGCTAACATCTACCCACAGGGTTTTGTG  
 AGCTGTAGCCGATTCCCAAGTTGAACCTATCAGCCTGGCGAGGCAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215396 representing NM\_007946  
 Red=Cloning site Green=Tags(s)

MMQQLLALV GALATLILTQHAEGTAPASPSPEISVLRDCIAEAKLLVDTAYNHTQKSIMQRLRSGSASP  
 MDLLAYFKQPVAATRVRVQAADYMHVALGLLEERLQPRGSRPFNATDVLTEPQLRLLSQASGCALQDQAE  
 RCSNKYRTITGRCNNKHPWLGASNQALARWLP AEYEDHRSLPFGWTPGKRRNGFLLPLVRDVSNQIVRF  
 PSKKLTS DRGRALMFMQWGQFIDHDLDFSPESPARVAFSMGVDCEKTC AQLPPCFPIKIPRNDPRIKNQR  
 DCIPFFRSAPACPNRNKVRNQINALTSFVDASMYGSEVTLALRLRNRTNFLGLLATNQRFDNGRALL  
 PFDNLHEDPCLLTNRSARIPCFLAGDTRSSETPKLTALHTLFVREHNRLAAELRRLNPHWSGDKLYNEAR  
 KIVGAMVQIITYRDFLPLVLGRARIRRTLGPYRGYCSNVDPVANVFTLAFRFGHTMLQPFMFRLDSQYR  
 ASAPNSHVPLSSVFFASWRIIHEGGIDPILRGLMATPAKLNQDSMLVDEL RDKLFQQVRRIGLDLAALN  
 MQRSRDHGLPGYNARRFCGLSQPRNLAQLSRVLKNQDLARKFLRLYKTPDNIDIWVGAI AEPLLPGARV  
 GPLLA CLFENQFRARDGDRFWQKWGVFTKRQRKALRRISLSRIVCDNTGITT VSRDIFRANIYPQGFV  
 SCSRI PKLNLSAWRGK

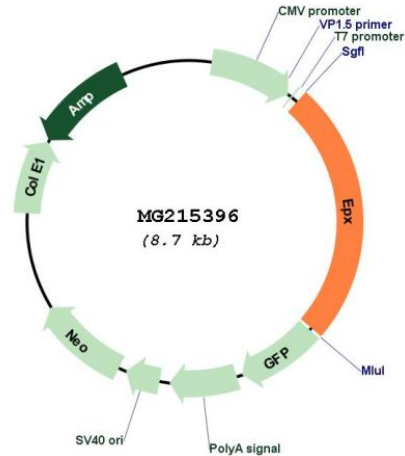
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_007946

**ORF Size:** 2148 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\\_007946.2](#), [NP\\_031972.2](#)

**RefSeq Size:** 2691 bp

**RefSeq ORF:** 2151 bp

Locus ID: 13861

UniProt ID: [P49290](#)

Cytogenetics: 11 52.25 cM

**Gene Summary:** This gene encodes a member of the peroxidase superfamily of enzymes that is produced by eosinophils and plays a critical role in eliminating tissue-invasive parasites. The encoded preproprotein undergoes proteolytic processing to generate a heterodimeric enzyme that forms a predominant component of the intracellular granules of eosinophils. Mice lacking the encoded protein exhibit resistance to ulcerative colitis induced by dextran sulfate. [provided by RefSeq, Jul 2016]