

Product datasheet for **MC220986**

Epx (NM_007946) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epx (NM_007946) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epx
Synonyms:	E; EPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220986 representing NM_007946
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCAGCAGCTTCTGGCCCTGGTAGGGCCCTTAGCCACACTCATCCTCACCCAACACGCTGAAGGCA
 CTGCCCCAGCTTCCCCAGTCCAGTGGAGATTTAGTCCTTCGAGACTGCATAGCAGAGGCTAAGCTGCT
 GGTGGACACTGCCTACAATCACACACAGAAAAGCATCATGCAACGCTTCGCACTGGCTCGGCCAGCCCC
 ATGGACCTCCTGGCCTACTTCAAACAGCCAGTAGCAGCCACCAGAAGAGTGGTTCAGGCCGCTGATTATA
 TGCATGTGGCCTTAGGGCTGCTAGAAGAGAGGCTGCAGCCACGGGGATCTAGACCCTTCAATGCCACTGA
 TGTGCTCACAGAACCACAGCTGCGCCTGCTGTCCAGGCCAGTGGCTGTGCTCTCCAGGACCAGGCTGAG
 AGGTGCAGCAACAAGTACCGAACATAACAGGGAGATGCAACAACAAGAAGCATCCCTGGCTGGGAGCCT
 CCAACCAGGCCCTGGCCCGCTGGCTGCCAGCTGAGTATGAAGACCACAGGTCTCTCCCTTTGGCTGGAC
 CCCTGGAAGAGGCGTAATGGCTTCTGCTTCTCTTGTCCGGGATGTCTCCAATCAGATTGTGCGCTTC
 CCCAGCAAGAACTGACCTCAGACCAGGCCGGCCCTTATGTTTCAGTGGGCCCAGTTCATCGACC
 ATGACCTGGACTTCTCCCCGGAGTCCCCAGCCAGAGTGGCCTTACAGCATGGGTGTGGACTGTGAGAAGAC
 CTGTGCCAGCTGCCCCCTGCTTCCCCATCAAGATCCCACGCAATGATCCCCGCATCAAGAACCAGCGC
 GACTGCATCCCCTTCTCCGCTCTGCCCGGCGTCCCCCAAAACAGGAACAAAGTCCGCAACCAGATCA
 ACGCACTTACATCCTTCGTGGACGCCAGCATGGTGTATGGCAGCGAGGTGACCCTCGCCCTGCGGCTCCG
 TAATAGGACCAACTTCTGGGGCTGTGGCCACGAACCAGCGATTCCAGGACAACGGTCGAGCCCTACTG
 CCTTTTGACAACCTGCATGAGGACCCCTGTCTCCTGACTAACCGCTCTGCACGCATCCCCTGCTTCTGG
 CAGGTGACACTCGGTCAAGTAAAACCCCAAACTGACGGCCTTGACACAGCTGTTTGTGAGAGAACACAA
 TCGCCTAGCCGCTGAGCTGAGGCGCTGAATCCCCTGAGTGGAGACAAGCTGTACAACGAAGCCCGG
 AAGATCGTGGGAGCCATGGTCCAGATCATCACCTACCGAGACTTCTGCCTCTGGTTCTGGGCAGGGCCC
 GGATCAGAAGAACTTTGGGTCCCTACAGAGGGTATTGCTCCAATGTGGACCCCGTGTAGCCAATGTTTT
 CACCCTGGCCTTCCGCTTTGGCCACACCATGCTTCAGCCCTTCATGTTCCGCTGGATAGCCAGTATCGG
 GCCTCGGCACCCAACCTCCACGTCCTGCTAGCTCTGTATTCTTTGCCAGCTGGCGAATCATACATGAAG
 GTGGCATCGACCTATCCTCCGAGGTCTCATGGCCACCCAGCTAAGCTGAACCGCAGGATTCCATGCT
 GGTGGATGAGCTCCGCGACAAGCTGTTTCAGCAAGTGAGAAGGATCGGGCTGGATCTGGCAGCTCTGAAC
 ATGCAGCGCAGCCGGGACCACGGCCTTCCAGGATACAATGCCTGGAGACGCTTCTGTGGGCTTTCCAGC
 CCCGAACTTGGCCAGCTTAGTCGGGTGCTAAAAATCAGGATTTGGCAAGGAAGTTTCTGAGACTGTA
 CAAGACGCCCCGACAACATTGACATCTGGGTGCGAGCCATTGCGGAGCCTCTCTGCGGGGGCCCGAGTG
 GGGCCGCTTCTGGCTTGTCTTTTGAAGAACAGTTGAGGAGAGCCAGAGATGGAGACAGATTCTGGTGGC
 AGAAATGGGGAGTTTTACCAAAAGACAACGCAAGCCCTGAGGCGAATCTTTTATCTCGGATTGTATG
 CGACAATACTGGCATCACCACGGTTTTCGAGGGACATCTCAGGGCTAACATCTACCCACAGGGTTTTGTG
 AGCTGTAGCCGATTCCCAAGTTGAACCTATCAGCCTGGCGAGGCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1542_a09.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_007946

Insert Size: 2151 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:	<u>NM_007946.2</u> , <u>NP_031972.2</u>
RefSeq Size:	2691 bp
RefSeq ORF:	2151 bp
Locus ID:	13861
UniProt ID:	<u>P49290</u>
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]