

Product datasheet for **MR215396**

Epx (NM_007946) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>MR215396 representing NM_007946
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCAGCAGCTTCTGGCCCTGGTAGGGCCCTAGCCACACTCATCCTCACCCAACACGCTGAAGGCA
 CTGCCCCAGCTTCCCCAGTCCAGTGGAGATTTAGTCCTTCGAGACTGCATAGCAGAGGCTAAGCTGCT
 GGTGGACTGCCTACAATCACACACAGAAAAGCATCATGCAACGCTTCGCAAGTGGCTCGGCCAGCCCC
 ATGGACCTCCTGGCCTACTTCAAACAGCCAGTAGCAGCCACCAGAAGAGTGGTTCAAGCCGCTGATTATA
 TGCATGTGGCCTTAGGGCTGCTAGAAGAGAGGCTGCAGCCACGGGGATCTAGACCCTTCAATGCCACTGA
 TGTGCTCACAGAACCACAGCTGCGCCTGCTGTCCAGGCCAGTGGCTGTGCTCTCCAGGACCAGGCTGAG
 AGGTGCAGCAACAAGTACCGAACATAACAGGGAGATGCAACAACAAGAAGCATCCCTGGCTGGGAGCCT
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 ATGACCTGGACTTCTCCCCGGAGTCCCCAGCCAGAGTGGCCTTACAGATGGGTGTGGACTGTGAGAAGAC
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 GCCTCGGCACCAACTCCACGTCCTGCTTAGCTCTGTATTCTTTGCCAGCTGGCGAATCATACATGAAG
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 GGTGGATGAGCTCCGCGACAAGCTGTTTCAGCAAGTGAGAAGGATCGGGCTGGATCTGGCAGCTCTGAAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215396 representing NM_007946
Red=Cloning site Green=Tags(s)

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MMQQLLALV GALATLIL TQHAEGTAPAS PVEISVLRDCIAEAKLLVDTAYNHTQK SIMQRLRSGSASP
MDLLAYFKQPVAATR RVVQAADYMHVALG LLEERLQPRGSRPFNATDVLTEPQLRLLSQASGCALQDQAE
RCSNKYRTITGRCNNKHPWLGASNQALARWLP AEYEDHRSLPFGWTPGKRRNGFLLPLVRDVSNQIVRF
PSKKLTSDRGRALMFMQWQGFIDHDLDFSPESPARVAFSMGVDC EKTCAQLPPCFPIKIPRNDPRIKNQR
DCIPFFRSAPACPNRNKVRNQINALTSFVDASMYGSEVTLALRLRNRTN FLGLLATNQRFQDN GRALL
PFDNLHEDPCLLTNRSARIPCFLAGDTRSSETPKLTALHTL FVREHNRLAAELRRLNPHWSGDKLYNEAR
KIVGAMVQIITYRDFLPLVLGRARIRRTLGPYRGYCSNVDP RVANVFTLAFRFGHTMLQP FMRLDSQYR
ASAPNSHVPLSSVFFASWRIIHEGGIDPILRGLMATPAKLN RQDSMLVDEL RDKLFQQVRRIGLDLAALN
MQRSRDHGLPGYNARRFCGLSQPRNLAQLSRVLKNQDLARKFLRL YKTPDNIDIWVGAI AEPLLPGARV
GPLLACL FENQFR RARDGDRFWQKWGVFTKRQRKALRRISLSRIVCDNTGITTVSRDIFRANIYPQGFV
SCSRIPKLNLSAWRGK
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9088_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007946

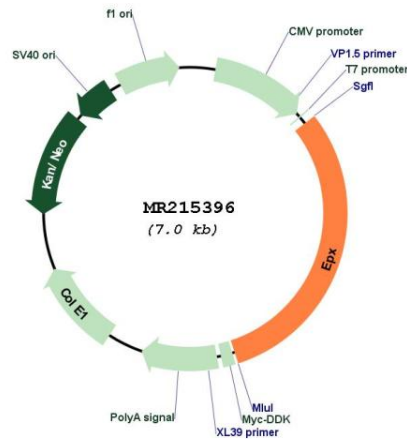
ORF Size: 2148 bp

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:	<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
MW:	81.4 kDa
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]

Product images:



Circular map for MR215396