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Product datasheet for RC218959

EPX (NM_000502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPX (NM_000502) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPX
Synonyms:	EPO; EPP; EPX-PEN; EPXD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218959 representing NM_000502
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCTGCTCCCAGCCCTGGCAGGGGTCCTGGCCACACTCGTCCTCGCCCAGCCCTGTGAGGGCACTG
ACCCAGCCTCCCCTGGGGCAGTGGAGACCTCGGTCCTGCGAGACTGCATAGCAGAGGCCAAGTTGCTGGT
GGATGCTGCCTACAATTGGACCCAGAAGAGCATCAAGCAGCGGCTTCGCAGCGGTTCAGCCAGCCCCATG
GACCTCCTGTCCTACTTCAAACAACCGGTAGCAGCCACCAGGACAGTTGTTCGGGCCGCAGATTATATGC
ATGTGGCTTTGGGGCTGCTTGAAGAGAAGTTACAACCCCAGCGGTCCGGACCCTTCAATGTCACTGATGT
GCTAACAGAACCACAGCTGCGGCTGCTGTCCCAGGCCAGTGGCTGTGCTCTCCGGGACCAGGCCGAGCGC
TGCAGCGACAAGTACCGCACCATCACTGGACGGTGCAACAACAAGAGGAGACCCTTGCTAGGGGCCTCCA
ACCAGGCTCTGGCTCGCTGGCTGCCCGCCGAGTATGAGGATGGGCTGTCGCTCCCCTTCGGCTGGACCCC
CAGCAGGAGGCGCAATGGCTTCCTTCTCCCTCTTGTCCGGGCTGTCTCCAACCAGATTGTGCGCTTCCCC
AATGAGAGACTGACCTCCGACCGTGGCCGAGCCCTCATGTTCATGCAGTGGGGCCAGTTCATTGACCATG
ACCTGGACTTCTCCCCGGAGTCCCCGGCCAGAGTGGCCTTCACTGCAGGCGTTGACTGTGAGAGGACCTG
CGCCCAGCTGCCCCCCTGCTTTCCCATCAAGATCCCACCCAATGACCCCCGCATCAAGAACCAGCGTGAC
TGCATCCCTTTCTTCCGCTCGGCACCCTCATGCCCCCAAAACAAGAACAGAGTCCGCAACCAGATCAACG
CGCTCACCTCCTTTGTGGACGCCAGCATGGTGTATGGCAGTGAGGTCTCCCTCTCGCTGCGGCTCCGCAA
CCGGACCAACTACCTGGGGCTGCTGGCCATCAACCAGCGCTTTCAAGACAACGGCCGGGCCCTGCTGCCC
TTCGACAACCTGCACGATGACCCCTGTCTCCTCACCAACCGCTCGGCGCGCATCCCCTGCTTCCTGGCAG
GTGACACCCGATCAACGGAAACCCCCAAACTGGCAGCCATGCACACCCTCTTTATGCGAGAGCACAACCG
GCTGGCCACCGAGCTGAGACGCCTGAATCCCCGGTGGAATGGAGACAAACTGTACAATGAGGCTCGGAAG
ATCATGGGGGCCATGGTCCAGATCATCACCTACCGAGACTTTCTGCCCCTGGTTCTGGGCAAGGCCCGGG
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CCTGGCCTTCCGCTTTGGCCACACAATGCTCCAGCCCTTCATGTTCCGCTTGGACAGTCAGTACCGGGCC
TCCGCACCCAACTCGCATGTCCCACTTAGCTCTGCCTTCTTTGCCAGCTGGCGGATCGTGTATGAAGGGG
GCATCGACCCCATCCTCCGGGGCCTCATGGCCACCCCTGCCAAGCTGAACCGTCAGGATGCCATGTTAGT
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GGAATTTGGCACAGCTTAGCCGGGTGCTGAAAAACCAGGACTTGGCAAGGAAGTTCCTGAATTTGTATGG
AACACCTGACAACATTGACATCTGGATTGGGGCCATCGCTGAGCCTCTTTTGCCGGGGGCTCGAGTGGGG
CCTCTTCTGGCTTGTCTGTTCGAGAACCAGTTCAGAAGAGCCCGAGACGGAGACAGGTTCTGGTGGCAGA
AACGAGGTGTTTTCACCAAAAGACAGCGCAAGGCCCTGAGCAGAATTTCCTTGTCTCGAATTATATGTGA
CAATACCGGTATCACCACGGTTTCAAGGGACATCTTCAGAGCCAACATCTACCCTCGGGGCTTTGTGAAC
TGCAGCCGTATCCCCAGGTTGAACCTATCAGCCTGGCGAGGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218959 representing NM_000502
Red=Cloning site Green=Tags(s)

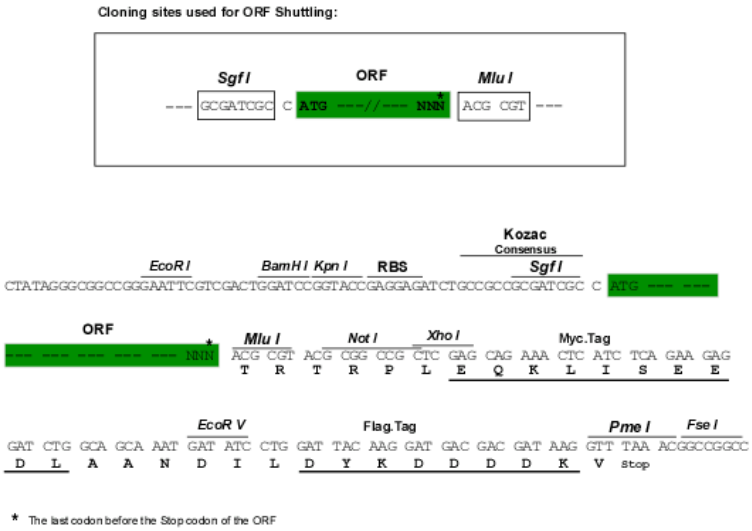
MHLLPALAGVLATLVLAQPCEGTDPASPGAVETSVLRDCIAEAKLLVDAAYNWTQKSIKQRLRSGSASPM
DLLSYFKQPVAATRTVVRAADYMHVALGLLEEKLQPQRSGPFNVTDVLTEPQLRLLSQASGCALRDQAER
CSDKYRTITGRCNNKRRPLLGASNQALARWLPAEYEDGLSLPFGWTPSRRRNGFLLPLVRAVSNQIVRFP
NERLTSDRGRALMFMQWGQFIDHDLDFSPESPARVAFTAGVDCERTCAQLPPCFPIKIPPNDPRIKNQRD
CIPFFRSAPSCPQNKNRVRNQINALTSFVDASMVYGSEVSLSLRLRNRTNYLGLLAINQRFQDNGRALLP
FDNLHDDPCLLTNRSARIPCFLAGDTRSTETPKLAAMHTLFMREHNRLATELRRLNPRWNGDKLYNEARK
IMGAMVQIITYRDFLPLVLGKARARRTLGHYRGYCSNVDPRVANVFTLAFRFGHTMLQPFMFRLDSQYRA
SAPNSHVPLSSAFFASWRIVYEGGIDPILRGLMATPAKLNRQDAMLVDELRDRLFRQVRRIGLDLAALNM
QRSRDHGLPGYNAWRRFCGLSQPRNLAQLSRVLKNQDLARKFLNLYGTPDNIDIWIGAIAEPLLPGARVG
PLLACLFENQFRRARDGDRFWWQKRGVFTKRQRKALSRISLSRIICDNTGITTVSRDIFRANIYPRGFVN
CSRIPRLNLSAWRGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8120_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000502

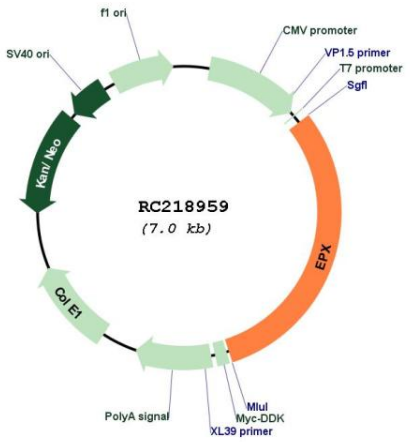
ORF Size: 2145 bp

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_000502.6
RefSeq Size:	2731 bp
RefSeq ORF:	2148 bp
Locus ID:	8288
UniProt ID:	P11678
Cytogenetics:	17q22
Domains:	An_peroxidase
Protein Families:	Druggable Genome
Protein Pathways:	Asthma
MW:	81.5 kDa
Gene Summary:	This gene is a member of the peroxidase gene family and is expressed in eosinophils. The encoded preproprotein is proteolytically processed into covalently attached heavy and light chains to form the mature enzyme, which functions as an oxidant. The enzyme is released at sites of parasitic infection or allergen stimulation to mediate lysis of protozoa or parasitic worms. The gene is found in a gene cluster with other peroxidase genes on chromosome 17. Mutations in this gene result in eosinophil peroxidase deficiency. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC218959