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Product datasheet for SC119861

EPX (NM_000502) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPX (NM_000502) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPX
Synonyms:	EPO; EPP; EPX-PEN; EPXD
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

View online »

Fully Sequenced ORF:

>OriGene ORF within SC119861 sequence for NM_000502 edited (data generated by NextGen Sequencing)

ATGCATCTGCTCCCAGCCCTGGCAGGGGTCCTGGCCACACTCGTCCTCGCCCAGCCCTGT
GAGGGCACTGACCCAGCCTCCCCTGGGGCAGTGGAGACCTCGGTCCTGCGAGACTGCATG
GCAGAGGCCAAGTTGCTGGTGGATGCTGCCTACAATTGGACCCAGAAGAGCATCAAGCAG
CGGCTTCGCAGCGGTTCAGCCAGCCCCATGGACCTCCTGTCCTACTTCAAACAACCGGTA
GCAGCCACCAGGACAGTTGTTCGGGCCGCAGATTATATGCATGTGGCTTTGGGGCTGCTT
GAAGAGAAGTTACAACCCCAGCGGTCCGGACCCTTCAATGTCACTGATGTGCTAACAGAA
CCACACCTGCGGCTGCTGTCCCAGGCCAGTGGCTGTGCTCTCCGGGACCAGGCCGAGCGC
TGCAGCGACAAGTACCGCACCATCACTGGACGGTGCAACAACAAGAGGAGACCCTTGCTA
GGGGCCTCCAACCAGGCTCTGGCTCGCTGGCTGCCCGCCGAGTATGAGGATGGGCTGTCG
CTCCCCTTCGGCTGGACCCCCAGCAGGAGGCGCAATGGCTTCCTTCTCCCTCTTGTCCGG
GCTGTCTCCAACCAGATTGTGCGCTTCCCCAATGAGAGACTGACCTCCGACCGTGGCCGG
GCCCTCATGTTCATGCAGTGGGGCCAGTTCATTGACCATGACCTGGACTTCTCCCCGGAG
TCCCCGGCCAGAGTGGCCTTCACTGCAGGCGTTGACTGTGAGAGGACCTGCGCCCAGCTG
CCCCCCTGCTTTCCCATCAAGATCCCACCCAATGACCCCCGCATCAAGAACCAGCGTGAC
TGCATCCCTTTCTTCCGCTCGGCACCCTCATGCCCCCAAAACAAGAACAGAGTCCGCAAC
CAGATCAACGCGCTCACCTCCTTTGTGGACGCCAGCATGGTGTATGGCAGTGAGGTCTCC
CTCTCGCTGCGGCTCCGCAACCGGACCAACTACCTGGGGCTGCTGGCCATCAACCAGCGC
TTTCAAGACAACGGCCGGGCCCTGCTGCCCTTCGACAACCTGCACGATGACCCCTGTCTC
CTCACCAACCGCTCGGCGCGCATCCCCTGCTTCCTGGCAGGTGACACCCGATCAACGGAA
ACCCCCAAACTGGCAGCCATGCACACCCTCTTTATGCGAGAGCACAACCGGCTGGCCACC
GAGCTGAGACGCCTGAATCCCCGGTGGAATGGAGACAAACTGTACAATGAGGCTCGGAAG
ATCATGGGGGCCATGGTCCAGATCATCACCTACCGAGACTTTCTGCCCCTGGTTCTGGGC
AAGGCCCGGGCCAGGAGAACCCTGGGGCACTACAGGGGGTACTGCTCCAATGTGGACCCA
CGGGTGGCCAATGTCTTCACCCTGGCCTTCCGCTTTGGCCACACAATGCTCCAGCCCTTC
ATGTTCCGCTTGGACAGTCAGTACCGGGCCTCCGCACCCAACTCGCATGTCCCACTTAGC
TCTGCCTTCTTTGCCAGCTGGCGGATCGTGTATGAAGGGGGCATCGACCCCATCCTCCGG
GGCCTCATGGCCACCCCTGCCAAGCTGAACCGTCAGGATGCCATGTTAGTGGATGAGCTC
CGGGACCGGCTGTTTCGGCAAGTGAGGAGGATTGGGCTGGACCTGGCAGCTCTCAACATG
CAACGAAGCCGGGACCACGGCCTTCCAGGGTACAATGCTTGGAGGCGCTTCTGTGGGCTC
TCCCAGCCCCGGAATTTGGCACAGCTTAGCCGGGTGCTGAAAAACCAGGACTTGGCAAGG
AAGTTCCTGAATTTGTATGGAACACCTGACAACATTGACATCTGGATTGGGGCCATCGCT
GAGCCTCTTTTGCCGGGGGCTCGAGTGGGGCCTCTTCTGGCTTGTCTGTTCGAGAACCAG
TTCAGAAGAGCCCGAGACGGAGACAGGTTCTGGTGGCAGAAACGAGGTGTTTTCACCAAA
AGACAGCGCAAGGCCCTGAGCAGAATTTCCTTGTCTCGAATTATATGTGACAATACCGGT
ATCACCACGGTTTCAAGGGACATCTTCAGAGCCAACATCTACCCTCGGGGCTTTGTGAAC
TGCAGCCGTATCCCCAGGTTGAACCTATCAGCCTGGCGAGGGACATGA

Clone variation with respect to NM_000502.4
120 a=>g;366 g=>c;660 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000502 unedited
NCGTTAGGATTTGTATACGACTCCTATAGGGCGGCCGCGAATTCGCACGAGGGAAGTGAG
AGGTCGGCTGGGGGCCCTCAAGTGAGAGGGGAGCAGAGGATCCTCCCGTGCAGGCTGTGG
ATGTCACTCACTTCCCAGCTGGTGAAGCCTCGCTGCAGAGATGCATCTGCTCCCAGCCCT
GGCAGGGGTCCTGGCCACACTCGTCCTCGCCCAGCCCTGTGAGGGCACTGACCCAGCCTC
CCCTGGGGCAGTGGAGACCTCGGTCCTGCGAGACTGCATGGCAGAGGCCAAGTTGCTGGT
GGATGCTGCCTACAATTGGACCCAGAAGAGCATCAAGCAGCGGCTTCGCAGCGGTTCAGC
CAGCCCCATGGACCTCCTGTCCTACTTCAAACAACCGGTAGCAGCCACCAGGACAGTTGT
TCGGGCCGCAGATTATATGCATGTGGCTTTGGGGCTGCTTGAAGAGAAGTTACAACCCCA
GCGGTCCGGACCCTTCAATGTCACTGATGTGCTAACAGAACCACACCTGCGGCTGCTGTC
CCAGGCCAGTGGCTGTGCTCTCCGGGACCAGGCCGAGCGCTGCAGCGACAAGTACCGCAC
CATCACTGGACGGTGCAACAACAAGAGGAGACCCTTGCTAGGGGCCTCCAACCAGGCTCT
GGCTCGCTGGCTGCCCGCCGAGTATGAGGATGGGCTGTCGCTCCCCTTCGGCTGGACCCC
CAGCAGGAGGCGCAATGGCTTCCTTCTCCCTCTTGTGCGGGCTGTCTCCACCAGATTGTG
CGCTTCCCCAAGAGAGACTGACCTCCGACCGTGGCCGGGCCCTCATGTTCATGCAGTGGN
GCCAGTTCATTGACCATGACCTGNNACTTCTCCCGNATCCCCGGNCAGAGTGCCCTCACT
GCCAGCGTTGACTGTGAGAGGACTGCGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000502 unedited
GGGGGGGGGCGGGCCNAACCNNNNCCCTTTTNNNNNNGGNNTTTTACTTGNCCNCGGCCG
CTTTTNANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCCT
TAACAGGGCTTTATTGGTAAAAACAAAACATGCTGCCTGGCCTCAAGCTCAAAAGAATAT
TGTGGGGGGTCTGGAGGCTAAGACCCAATGGTCTCTTAATCATGGGGAGGGAGGGGAGGG
AGGGCTGGGAAACAATAAAAAGGGCTGTAAACCCTCCAACTGACTTTTTTTGCCTGGGGG
GCAAAACCACATGGCTTGGCTCCCAAACCTTTGCACGTGGCGCTGATTCATAACCTAATA
CCTAAAAGGCTCCCAAGGCGGGAAGGGCCATTGCTGATAAGAACCCCCAACCTTCACTCC
TGGCTGGGGAACCCAACTCTGAACTGTAACCAACAAAAACGTCAACAGCCTGCACTTGCT
CCAAGGAAACAAGGCAACCTCATGGGCCTCCCCTTCCCCTTGTCTCCAAAAGTTGGAAAC
TTGGGATAAACTCCTGCAAAAACCTCATGTCCCTCGCCAGGCTGATAGGGTCAACCTGGG
GATACCGCTGCAGTTCACAAAGCCCCCAGGGTAGATGTTGGCTCTTAAGAAGTCCCTTGA
AACCCTGGTGATACCGGTATTGTCACATATAATTCGAGACAAAGAAATTCTGCTCAAGGC
CTTGCGCTGTCTTTTGGTGAAAACACCTCGTTTCTGCCACCAGAACCTGTCTTCCTCTCG
GGCTCTCCTGAACTGGTTCTCGAACAGAAAGCCAGAAAAGCCCCACTCCACCCCCCGCAA
AAAGCTCAACGATGGCCCCATCCAGATGTCATGTTGTCAGGGTTCCATACAAATTAGAAC
CTCCTGGCCAACCTGGTT

Restriction Sites: NotI-NotI

ACCN: NM_000502

Insert Size: 2680 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).

RefSeq: NM_000502.2, NP_000493.1

RefSeq Size: 2267 bp

RefSeq ORF: 2148 bp

Locus ID: 8288

UniProt ID:	P11678
Domains:	An_peroxidase
Protein Families:	Druggable Genome
Protein Pathways:	Asthma
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]