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Product datasheet for MR218989

Ephx3 (NM_001033163) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Ephx3
Synonyms:	2310063B19Rik; Abhd9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR218989 representing NM_001033163
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGGTGGCAGTATCTGTCCGAGCCGCGCATCTGTTTCCTCGACCGGTCCAGTGGACTCCGATAGCA
CGGTGGAATCCCAAAACAAAGGTGGTGGGCTGCTGGCGCCAGCACCCCTGGCTCAGTCTCCCGACCACGG
CGGCTCTGTAGTCGTCCCAGAGCGCAAGGATATGCCGGAGTTTGTGGTGACAGCGCTACTCGCACCCTCA
CGCCTCTCGCTGAAGCTGCTGCGAGCGCTGGTGATGAGCCTGGTGTACTTGGCTGCCTTGGTGGCCGCGT
TTGTCTACAGCTGCATCGCGCTCACCCATGTGATGTGCCGTCCTCGCAGGGGCTGCTGCGGCCGCCAGAG
GTTGTCTCCCCCAGAGTGCCTGAGAGACCCCACGCTGGGCGAGCATTGCTTTCTAACCCTCAGGGTGAGT
GTTCCTCCCGTGAAGAGTTCCGGCCTGCGTCTGCACTATGTCTCTGCTGGTCATGGCAATGGGCCACTCA
TGCTATTTCTGCATGGCTTCCCAGAGAACTGGTTCAGCTGGCGCTACCAGCTGCGAGAGTTTCAGAGCCA
TTTCCATGTCGTGGCTGTAGACATGCGTGGTTATAGTCCCTCTGATGCTCCAAAGGAAGTGGATTGTTAC
ACCATTGACTTGTTGTTGGATGACATCAAGGATACCATCCTAGGCCTGGGGTACTCCAAGTGCATCCTCG
TGAGCCACGACTGGGGGGCCTCCCTTGCCTGGGAGTTCTCCATCTACTACCCATCCCTAGTGGAGCGTAT
GGTTGTGGCCAATGGTCCTCCCATGTCAGTGATCCAAGAATACTCAATCCACCACATCGGCCAGATATTC
CGATCAAACTACATGTTCCTGTTCCAGCTTCCCTGGCTGCCAGAGAAGCTGTTGTCTATGTCTGACTTCC
AGATTCTCAAAGACACATTCACTCACCGCAAGAACGGCATCCCAGGACTGACTCCTTCTGAACTTGAAGC
ATTCCTTTATCACTTCTCACAACCTGGATGCCTCACTGGGCCCATCAACTACTACAGGAACGTGTTCAGG
AACTTCCCCCTGGAGCCCAAGAAACTGTCAACACCCACGCTGTTGCTGTGGGGGGAAAAAGACTTCGCCT
TCCAGCAGGGGCTGGTGGAAGCCATTGGAAGACACTTTGTGCCCGGCCGGTTGGAAAGCCACATTTTGCC
AGGCAGTGGGCACTGGATTCCACAGAGCCATCCTCAGGAGATGCATCAGTACATGTGGGCCTTCTTGCAA
GACCTGCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218989 representing NM_001033163
Red=Cloning site Green=Tags(s)

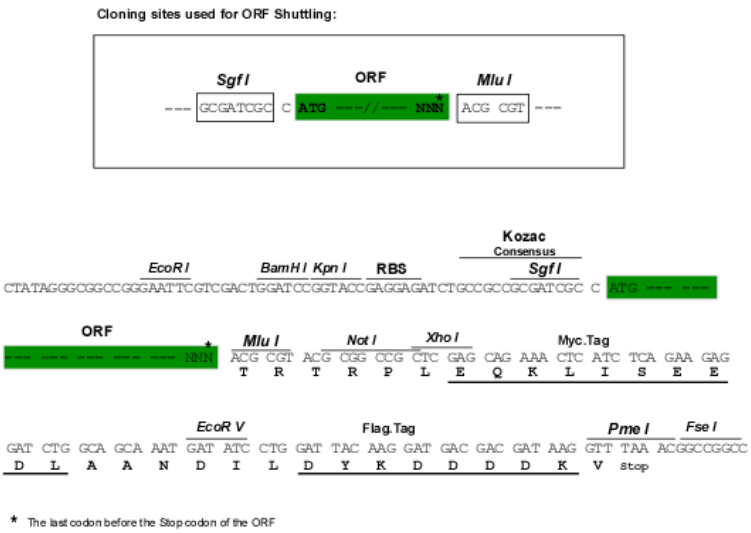
MRGGSICPSRASVSSTGPVDSDSTVESQNKGGGLLAPAPLAQSPDHGGSVVVPERKDMPEFVVTALLAPS
RLSLKLLRALVMSLVYLAALVAAFVYSCIALTHVMCRPRRGCCGRQRLSPPECLRDPTLGEHCFLTLRVS
VPPVKSSGLRLHYVSAGHGNGPLMLFLHGFPENWFSWRYQLREFQSHFHVVAVDMRGYSPSDAPKEVDCY
TIDLLLDDIKDTILGLGYSKCILVSHDWGASLAWEFSIYYPSLVERMVVANGPPMSVIQEYSIHHIGQIF
RSNYMFLFQLPWLPEKLLSMSDFQILKDTFTHRKNGIPGLTPSELEAFLYHFSQPGCLTGPINYYRNVFR
NFPLEPKKLSTPTLLLWGEKDFAFQQGLVEAIGRHFVPGRLESHILPGSGHWIPQSHPQEMHQYMWAFLQ
DLLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033163

ORF Size: 1272 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001033163.4

RefSeq Size: 2416 bp

RefSeq ORF: 1275 bp

Locus ID: 71932

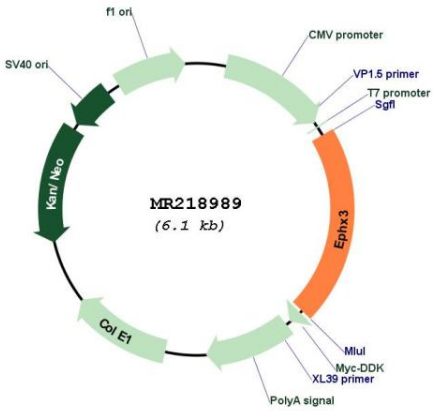
UniProt ID: Q3V1F8

Cytogenetics: 17 B1

MW: 47.9 kDa

Gene Summary: Catalyzes the hydrolysis of epoxide-containing fatty acids. Active in vitro against epoxyeicosatrienoic acids (EETs) including 8,9-EET, 9,10-EET, 11,12-EET and 14,15-EET and leukotoxin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218989