

Product datasheet for **RC227588**

ABHD9 (EPHX3) (NM_001142886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABHD9 (EPHX3) (NM_001142886) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABHD9
Synonyms:	ABHD9; EH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227588 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCGGAGCTGGTGGTACCAGCGCTGCTGGCGCCGTCGCGCCTGTCGCTGAAGCTGCTGCGCGCCTTCA
TGTGGAGCCTGGTGTCTCGGTGGCGCTGGTGGCCGCGCGGTCTACGGCTGCATAGCGCTCACGCAGT
GCTGTGCCGGCCCCGGCGCGCTGCTGCGGGCGCCGTCGGAGCGCTCCCCGCCTGCCTGAGCGACCCC
TCGCTGGGTGAGCACGGTTTCTGAACCTCAAGAGCTCGGGCCTCGCTGCACTATGCTCGGCTGGAC
GAGGTAACGGACCCTCATGCTGTTTCTGCACGGCTCCCTGAGAACTGGTTCTCCTGGCGTTACCAGCT
CCGGGAGTTCAGAGCCGCTTCCATGTTGTGGCTGTGGACTTGGCAGGCTATGGCCCTCGGATGCACCT
CGGGATGTGGACTGCTACACAATCGACCTGCTGCTGGTGGACATCAAAGATGTCATCCTAGGCCTGGTT
ACTCGAAGTGCATCCTTGTGGCCATGACTGGGGTGCCTCCTTGCTGGCATTCTCCATCTACTACCC
ATCCCTGGTCGAGCGGATGGTTGTGGTCAGTGGTGCCCCATGTCGGTGTACCAAGACTATTCCTGCAC
CACATCAGCCAGTTCTCCGTTCCCACTACATGTTCTGTTCCAGCTGCCTGGCTGCCGAGAAGCTGC
TGTCTATGCTGACTTTCAGATTCTGAAGACCACCTCACCCACCGCAAGACAGGCATCCCATGCTTGAC
CCCCAGCGAGCTCGAGGCCTTCCCTTATAACTTCTCACAGCCTGGTGGCCTCACTGGGCCCTCAACTAC
TACCGAAAACCTTTCAGGAACTTCCCCGGAACCCAGGAGCTGACCACACCCACATTGCTGCTGTGGG
GGGAGAAGGACACTTACTTGGAGCTGGGGCTGGTGGAAAGCCATCGCAGCCGCTTTGTCCGGGCCGCTT
GGAGGCCACATCCTGCCAGGCATAGGGCATTGGATCCACAGAGCAACCCAGGAGATGCACCACTAC
ATGTGGCCCTTCTGCAAGACCTGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227588 protein sequence
Red=Cloning site Green=Tags(s)

MP ELVVTALLAPSRLSLKLLRAFMWSLVFSVALVAAAVYGCIALTHVLCRPRRGCCGRRRSASPACLSDP
 SLGEHGFLNLKSSGLRLHYVSAGRGNPLMLFLHGF PENWFSWRYQLREFQSRFHVVAVDLRGYGPSDAP
 RDVDCYTIDLLLVDIKDVLGLGYSKCILVAHDWGALLAWHFSIYYPSLVERMVVYSGAPMSVYQDYSLH
 HISQFFRSHYMFLFQLPWLPEKLLSMSDFQILKTTLTHRKTGIPCLTPSELEAFLYNFSQPGLTGPLNY
 YRNLFRNFLEPQELTPTLLLWGEKDTYLELGLVEAIGSRFVPGRLEAHILPGIGHWIPQSNPQEMHQY
 MWAFLQDLLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6250_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001142886

ORF Size: 1080 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_001142886.1, NP_001136358.1

RefSeq Size: 1771 bp

RefSeq ORF: 1083 bp

Locus ID: 79852

UniProt ID: Q9H6B9

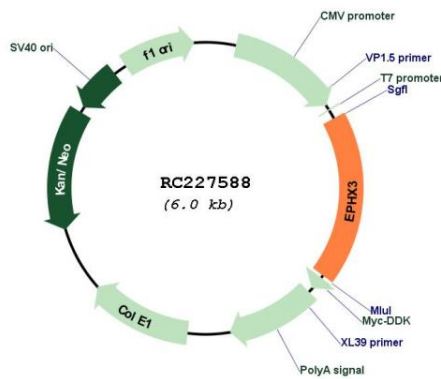
Cytogenetics: 19p13.12

Protein Families: Transmembrane

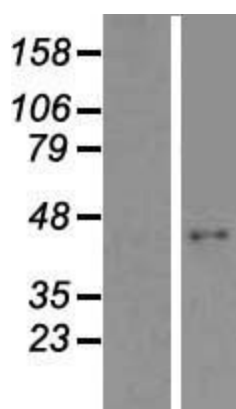
MW: 40.9 kDa

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 RC227588



Western blot validation of overexpression lysate (Cat# [LY428295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227588 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).