

## Product datasheet for **MR207267**

### **Ephx1 (NM\_010145) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ephx1 (NM_010145) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ephx1
Synonyms:	EH; Eph-1; Eph1; Epxh1; mEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207267 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGGAACATCCTGGCTTCTGTGCTGGCTTTGTCTACTGGTTTGTCTCCGGGACAAGG  
 AGGAGACCTTACCACTTGAAGATGGGTGGTGGGGCCAGGGTCAAAGCCATCAGCCAAAGAAGATGAGAG  
 CATCCGGCCCTTCAAGGTGGAACATCAGATGAGGAGATCAAGGACTGCACCAGAGGATAGATAGTTT  
 CGGGCATCCCCACCTTTGGAGGGCAGTCGCTTCCACTATGGCTTCAACTCCAGCTACCTGAAGAAAGTGG  
 TGTCTTCTGGAGGAATGAGTTTACTGGAGGAAGCAGGTGGAGATCCTCAACCAATACCCACACTTTAA  
 GACCAAGATTGAAGGGCTGGACATCCACTTCCACGTGAAACCTCCCCAGCTGCCCTCAGGCCGCACT  
 CCAAGCCCTTGCTGATGGTGCACGGCTGGCTGGCTCCTTCTATGAGTTCTACAAGATTATCCACTGC  
 TGACAGACCCCAAGACCCAGGCCCTGAGTATGAGCACGTGTTTGAAGTCATCTGTCCCTCAATTCTGG  
 CTATGGCTTCTCAGAGGCATCCAGCAAGAAAGTTTAAATTCGGTGGCCACTGCGAGGATCTTCTACAAG  
 CTGATGTCACGGCTGGGCTTCCAGAAGTTCTACATTCAAGGCGGGGACTGGGGTCTCTCATCTGCACCA  
 ACATAGCCAGATGGTGCACCAACACGTGAAAGTTTGCACCTGAATATGTCTTTCATTTCAAGAAACAT  
 TTATTCCTGACCCCTCTCCTGGGCCAACGTTTGGGAGATTTCTTGGCTACACAGAGAAGGATCTGGAG  
 CTCTTGTACCCATTCAAGGAAAAGTTTCTACAACATCATGAGGGAGAGTGGCTACTTACACATCCAGG  
 CCACCAAGCCGGACACTGGGGCTGTGCTCTGAATGACTCTCCTGTGGGCTGGCTGCCTACATCTTAGA  
 GAAGTTCTCCACTGGACCAAGTCAAGTACCGTGAACGGAGGATGGAGGCTGGAGAGGAAGTTCTCC  
 CTGGAAGATCTGCTGACTAACATCATGATCTACTGGACGACAGGAACATTGTCTCCTCCAGCCGCTTCT  
 ACAAGGAAAACCTGGGCCAGGGTGTCTGTCATGGTCCATAGACATGAGGGGATGAAGGTCTTTGTGCCACTGG  
 CTATTCAGCCTTCCCTTCTGAGATCCTGCATGCCCCAGAAAAGTGGGTGAAGGTCAAGTACCCCAACTC  
 ATCTCCTATTCTACATGGAACGTGGGGCCACTTTGCTGCCTTCAAGGACCCAAAGCTTCTGGCCAGG  
 ACATCCGCAAGTTCGTGTCCCTGGCTGAGCTGACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207267 protein sequence  
 Red=Cloning site Green=Tags(s)

MWLELILASVLGFVIYWFVSRDKEETLPLEDGWWGPGSKPSAKEDESIRPFKVVETSDEEIKDLHQRIDRF  
 RASPPLEGRFHYGFNSSLKVVSWRNEFDWRKQVEILNQYPHFKTKIEGLDIHFIVKPPQLPSGRT  
 PKPLLMVHWGPGSFYEFYKIIPLLDPKTHGLSDEHVFEVICPSIPGYGFSEASSKGLNSVATARIFYK  
 LMSRLGFQKFYIQGGDWGSLICTNIAQMPVNHVGLHLNMSFISRNIYSLTPLLQRFGRFLGYTEKDL  
 LLYPFKEKVFYINIMRESGYLHIQATKPDYVGCALNDSPVGLAAYILEKFTWTKSEYRELEDGGLERKFS  
 LEDLLTNIMIYWTGTIVSSQRFYKENLQGVVMVHRHEGMKVFVPTGYSAFPSEILHAPEKWKVKYPKL  
 ISYSYMERGGHFAAFEEPKLLAQDIRKVFVSLAELQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_010145

ORF Size: 1368 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\\_010145.3](#)

RefSeq Size: 1708 bp

RefSeq ORF: 1368 bp

Locus ID: 13849

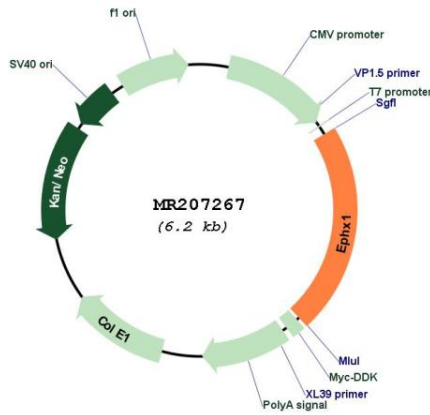
UniProt ID: [Q9D379](#)

**Cytogenetics:** 1 84.48 cM

**MW:** 52.6 kDa

**Gene Summary:** Biotransformation enzyme that catalyzes the hydrolysis of arene and aliphatic epoxides to less reactive and more water soluble dihydrodiols by the trans addition of water. May play a role in the metabolism of endogenous lipids such as epoxide-containing fatty acids. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207267