

Product datasheet for **MC227962**

Ephx2 (NM_001271421) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephx2 (NM_001271421) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ephx2
Synonyms:	CEH; Eph2; SEH; sEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227962 representing NM_001271421
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGAAAGCTACAGGAAGTCTCCAAGCCTGTGGAGCCAATCTACCTGAGAATTTCTCCATAAGTC
 AAATATTCAGCCAAGCTATGGCAGCAAGAAGCATCAACCGCCCATGCTTCAGGCAGCCATTGCTCTCAA
 AAAGAAAGGATTACAACATGCATTGTACCAACAACCTGGCTGGACGACGAGACAGAGAGACAGCCTG
 GCCCAGATGATGTGTGAGCTGAGCCAACACTTTGACTTCTGATAGAGTCTGTGAGTTGGGATGATCA
 AGCCTGAGCCTCAGATCTACAATTTTTACTGGATACCTGAAGGCAAAACCAATGAGGTTGTTTTCT
 AGATGACTTTGGAAGTAATCTGAAGCCAGCCGTGACATGGGGATGGTTACCATCCTGGTCCACAACACA
 GCCTCCGCTCTGAGAGAACTGGAGAAGGTCACAGGGACACAGTTTCTGAGGCCCACTGCCAGTCCCAT
 GCAATCCAAATGACGTCAGCCATGGATATGTGACAGTGAAGCCAGGGATCCGCCTGCATTTTGTGGAGAT
 GGGCTCTGGCCCTGCCCTATGCCTTTGCCATGGGTTTCTGAGAGCTGGTTTTCTTGGAGGTACCAGATC
 CCTGCTCTGGCCAGGCAGGCTTTCGTGTTCTGGCTATAGACATGAAAGGCTATGGAGACTCATCTTCTC
 CTCTGAAATAGAAGAATATGCCATGGAATTGCTGTGTAAGGAGATGGTACATTCTGGATAAGCTGGG
 AATCCCTCAAGCAGTGTTTCATTGGCCATGACTGGGCTGGTGTGATGGTGTGGAACATGGCTCTCTTAC
 CCTGAGAGAGTGGGGCTGTGGCCAGTTTGAACACGCCGTTTATGCCACCAGATCCTGATGTGTCTCCCA
 TGAAAGTTATCCGATCTATCCAGTTTTCAATTATCAGCTGTACTTTCAAGAACCAGGAGTGGCCGAGGC
 TGAAGTGGAGAAGAACATGAGTCGGACTTTCAAAGCTTCTTCCGAGCCAGTGATGAGACAGGTTTCATC
 GCTGTGCATAAAGCCACTGAAATAGGGGGAATCCTTGTGAATACTCCAGAAGATCCCAACCTCAGCAAAA
 TTACTACTGAGGAAGAAATAGAGTTTTACATACAGCAGTTCAAGAAGACTGGCTTCAGAGTCTCTGAA
 CTGGTACCGGAACACAGAAAGAACTGGAAGTGGAGCTGTAAGGGTTGGGACGAAAGATCTTGGTCCCA
 GCCCTGATGGTACAGCTGAGAAGGACATTGTAATCCTGAAATGTCCAAGAACATGAAAAAGTGGAA
 TCCCTTCTGAAAGGGGACACATTGAAGACTGTGGTCACTGGACACAGATAGAGAAACCAACTGAGGT
 GAACCAGATTCTCATCAAGTGGCTGCAGACTGAAGTCCAGAACCATCAGTGACCTCAAGATT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001271421
- Insert Size:** 1467 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001271421.1](#), [NP_001258350.1](#)

RefSeq Size: 2037 bp

RefSeq ORF: 1467 bp

Locus ID: 13850

Cytogenetics: 14 34.36 cM

Gene Summary: Bifunctional enzyme. The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides. Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. Also determines steady-state levels of physiological mediators. The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo-9,10-phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy-octadec-9Z-enoic acid and 12-phosphonooxy-octadec-9E-enoic acid.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. This variant is considered to be 5' complete based on evidence from PMID: 17900570. The encoded isoform (d) has a shorter N-terminus than isoform a.