

Product datasheet for **MC228054**

Ephx2 (NM_001271402) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephx2 (NM_001271402) 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: >MC228054 representing NM_001271402
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGGAAGATCACATTTTCGAGTGGGTACCACTCATGGATGAAAGCTACAGGAAGTCTCCAAG
 CCTGTGGAGCCAATCTACCTGAGAATTTCTCCATAAGTCAAATATTCAGCCAAGCTATGGCAGCAAGAAG
 CATCAACCGCCCATGCTTCAGGCAGCCATTGCTCTCAAAAAGAAAGGATTACACAACATGCATTGTCACC
 AACAACTGGCTGGACGACGGAGACAAGAGAGACAGCCTGGCCAGATGATGTGTGAGCTGAGCCAACACT
 TTGACTTCCTGATAGAGTCTGTGAGTTGGGATGATCAAGCCTGAGCCTCAGATCTACAATTTTTTACT
 GGATACCTGAAGGCAAAACCAATGAGGTTGTTTTCTAGATGACTTTGGAAGTAACTGAAGCCAGCC
 CGTGACATGGGGATGGTTACCATCCTGGTCCACAACACAGCCTCCGCTCTGAGAGAAGTGGAGAAGTCA
 CAGGGACACAGTTTCTGAGGCCCACTGCCAGTCCCATGCAATCCAAATGACGTCAGCCATGGATATGT
 GACAGTGAAGCCAGGGATCCGCCTGCATTTTGTGGAGATGGGCTCTGGCCCTGCCCTATGCCTTTGCCAT
 GGGTTTCTGAGAGCTGGTTTTCTTGGAGTACCAGATCCCTGCTCTGGCCAGGAGGCTTTCGTGTTT
 TGGCTATAGACATGAAAGGCTATGGAGACTCATTTCTCCTCCTGAAATAGAAGAATATGCCATGGAATT
 GCTGTGTAAGGAGATGGTGACATTCCTGGATAAGCTGGGAATCCCTCAAGCAGTGTTCATTGGCCATGAC
 TGGGCTGGTGTGATGGTGTGGAACATGGCTCTCTTCTACCCTGAGAGAGTGGGGCTGTGGCCAGTTTGA
 ACACGCCGTTTATGCCACCAGATCCTGATGTGTCTCCATGAAAGTTATCCGATCTATCCAGTTTTCAA
 TTATCAGCTGTACTTTCAAGAACCAGGAGTGGCCGAGGCTGAACTGGAGAAGAACATGAGTCGGACTTTC
 AAAAGCTTCTCCGAGCCAGTGTGAGACAGGTTTCATCGCTGTGCATAAAGCCACTGAAATAGGGGGAA
 TCCTTGTGAATACTCCAGAAGATCCCAACCTCAGCAAAATTACTACTGAGGAAGAATAAGATTTTACAT
 ACAGCAGTTCAAGAAGACTGGCTTCAGAGGTCCTCTGAACTGGTACCGGAACACAGAAAGAACTGGAAAG
 TGGAGCTGTAAAGGGTTGGGACGAAAGATCTTGGTCCCAGCCCTGATGGTACAGCTGAGAAGGACATTG
 TACTCCGTCTGAAATGTCCAAGAACATGGAAAAGTGGATCCCTTTCTGAAAAGGGGACACATTGAAGA
 CTGTGGTCACTGGACACAGATAGAGAAACCAACTGAGGTGAACCAGATTCTCATCAAGTGGTGCAGACT
 GAAGTCCAGAACCATCAGTGACCTCCAAGATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001271402
- Insert Size:** 1506 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_001271402.1](#), [NP_001258331.1](#)

RefSeq Size: 2142 bp

RefSeq ORF: 1506 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 (2) uses an alternate splice site at the 5' exon, differs in the 5' UTR, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.