

## Product datasheet for **MC228214**

### **Ephx2 (NM\_001271403) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ephx2 (NM_001271403) 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:** >MC228214 representing NM\_001271403  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGTTTGACGCGATGGCGGCTTCTCTGTGTTCTTTGTGAGTAAGGGTCTTTTGATGAACTCCAACA  
 TTTGGTGTGTTGGCCAGGAAGGCCCTTCTCAGGAGGACACAGACACCATACATACATCAGAGTGGGTACC  
 ACTCATGGATGAAAGCTACAGGAAGTCCTCCAAGCCTGTGGAGCCAATCTACCTGAGAATTTCTCCATA  
 AGTCAAATATTCAGCCAAGCTATGGCAGCAAGAAGCATCAACCGCCCATGCTTCAGGCAGCCATTGCTC  
 TCAAAAAGAAAGGATTACAACATGCATTGTCCACCAACTGGCTGGACGACGGAGACAAGAGAGACAG  
 CCTGGCCAGATGATGTGTGAGCTGAGCCAACACTTTGACTTCTGATAGAGTCTGTGAGTTGGGATG  
 ATCAAGCCTGAGCCTCAGATCTACAATTTTTACTGGATACCCTGAAGGCAAAACCCAATGAGGTTGTTT  
 TCCTAGATGACTTTGGAAGTAATCTGAAGCCAGCCGTGACATGGGGATGGTTACCATCCTGGTCCACAA  
 CACAGCCTCCGCTCTGAGAGAAGTGGAGAAGGTCACAGGGACACAGTTTCTGAGCCCCACTGCCAGTC  
 CCATGCAATCAAATGAGTCTCAGCCATGGATATGTGACAGTGAAGCCAGGGATCCGCCTGCATTTGTGG  
 AGATGGGCTCTGGCCCTGCCCTATGCCTTTGCCATGGGTTTCTGAGAGCTGGTTTTCTGGAGGTACCA  
 GATCCCTGCTCTGGCCAGGCAGGCTTTCTGTGTTCTGGCTATAGACATGAAAGGCTATGGAGACTCATCT  
 TCTCCTCTGAAATAGAAGAATATGCCATGGAATTGCTGTGTAAGGAGATGGTGACATTCCTGGATAAGC  
 TGGGAATCCCTCAAGCAGTGTTCATTGGCCATGACTGGGCTGGTGTGATGGTGTGGAACATGGCTCTCTT  
 CTACCTGAGAGAGTGGGGCTGTGGCCAGTTTGAACACGCCGTTTATGCCACCAGATCCTGATGTGTCT  
 CCCATGAAAGTTATCCGATCTATCCAGTTTTCAATTATCAGCTGACTTTCAAGAACCAGGAGTGGCCG  
 AGGCTGAAGTGGAGAAGCAATGAGTCGGACTTCAAAAGCTTCTCCGAGCCAGTGATGAGACAGGTTT  
 CATCGCTGTGCATAAAGCCACTGAAATAGGGGGAAATCCTTGTGAATACTCCAGAAGATCCCAACCTCAGC  
 AAAATTAATACTGAGGAAGAAATAGAGTTTTACATACAGCAGTTCAAGAAGACTGGCTTACAGAGTCTC  
 TGAAGTGGTACCGGAACACAGAAAGAACTGGAAGTGGAGCTGTAAGGGTTGGGACGAAAGATCTTGGT  
 CCCAGCCCTGATGGTACAGCTGAGAAGGACATTGTAAGTCCGCTCTGAAATGTCCAAGAACATGGAAAAG  
 TGGATCCCTTTCTGAAAAGGGGACACATTGAAGACTGTGGTCACTGGACACAGATAGAGAAACCAACTG  
 AGGTGAACCAGATTCTCATCAAGTGGCTGCAGACTGAAGTCCAGAACCCATCAGTGACCTCAAGATTTA  
 G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001271403
- Insert Size:** 1611 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271403.1</a> , <a href="#">NP_001258332.1</a>
<b>RefSeq Size:</b>	1987 bp
<b>RefSeq ORF:</b>	1611 bp
<b>Locus ID:</b>	13850
<b>UniProt ID:</b>	<a href="#">P34914</a>
<b>Cytogenetics:</b>	14 34.36 cM
<b>Gene Summary:</b>	<p>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-phosphonoxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonoxy-hydroxy-octadecanoic acid, 12-phosphonoxy-octadec-9Z-enoic acid and 12-phosphonoxy-octadec-9E-enoic acid.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks an in-frame portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. This variant is considered to be 5' complete based on evidence from PMID: 15601917. The encoded isoform (c) contains a distinct N-terminus and is shorter than isoform a.</p>