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# Product datasheet for MC200854

## Ephx2 (NM_007940) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ephx2 (NM_007940) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Ephx2 |
| **Synonyms:** | CEH; Eph2; SEH; sEP |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | PCMV6-Kan/Neo (PCMV6KN) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

>BC015087 sequence for NM_007940
CCACGCGTCCGCAGCCTTCCAGCTTCGTGTCTGTGTCAGCTTGACGCTGCAGCCCGGGCCGCCATGGCGC
TGCGTGTAGCCGCGTTCGACCTTGACGGAGTGCTGGCCCTCCCCTCTATCGCCGGGGCTTTCCGCCGCAG
CGAAGAGGCCCTGGCACTGCCTAGAGACTTCCTGCTTGGTGCGTACCAGACGGAATTCCCAGAGGGACCC
ACTGAGCAACTCATGAAAGGGAAGATCACATTTTCGCAGTGGGTACCACTCATGGATGAAAGCTACAGGA
AGTCCTCCAAAGCCTGTGGAGCCAATCTACCTGAGAATTTCTCCATAAGTCAAATATTCAGCCAAGCTAT
GGCAGCAAGAAGCATCAACCGCCCCATGCTTCAGGCAGCCATTGCTCTCAAAAAGAAAGGATTCACAACA
TGCATTGTCACCAACAACTGGCTGGACGACGGAGACAAGAGAGACAGCCTGGCCCAGATGATGTGTGAGC
TGAGCCAACACTTTGACTTCCTGATAGAGTCCTGTCAGGTTGGGATGATCAAGCCTGAGCCTCAGATCTA
CAATTTTTTACTGGATACCCTGAAGGCAAAACCCAATGAGGTTGTTTTCCTAGATGACTTTGGAAGTAAT
CTGAAGCCAGCCCGTGACATGGGGATGGTTACCATCCTGGTCCACAACACAGCCTCCGCTCTGAGAGAAC
TGGAGAAGGTCACAGGGACACAGTTTCCTGAGGCCCCACTGCCAGTCCCATGCAATCCAAATGACGTCAG
CCATGGATATGTGACAGTGAAGCCAGGGATCCGCCTGCATTTTGTGGAGATGGGCTCTGGCCCTGCCCTA
TGCCTTTGCCATGGGTTTCCTGAGAGCTGGTTTTCTTGGAGGTACCAGATCCCTGCTCTGGCCCAGGCAG
GCTTTCGTGTTCTGGCTATAGACATGAAAGGCTATGGAGACTCATCTTCTCCTCCTGAAATAGAAGAATA
TGCCATGGAATTGCTGTGTAAGGAGATGGTGACATTCCTGGATAAGCTGGGAATCCCTCAAGCAGTGTTC
ATTGGCCATGACTGGGCTGGTGTGATGGTGTGGAACATGGCTCTCTTCTACCCTGAGAGAGTGAGGGCTG
TGGCCAGTTTGAACACGCCGTTTATGCCACCAGATCCTGATGTGTCTCCCATGAAAGTTATCCGATCTAT
CCCAGTTTTCAATTATCAGCTGTACTTTCAAGAACCAGGAGTGGCCGAGGCTGAACTGGAGAAGAACATG
AGTCGGACTTTCAAAAGCTTCTTCCGAGCCAGTGATGAGACAGGTTTCATCGCTGTGCATAAAGCCACTG
AAATAGGGGGAATCCTTGTGAATACTCCAGAAGATCCCAACCTCAGCAAAATTACTACTGAGGAAGAAAT
AGAGTTTTACATACAGCAGTTCAAGAAGACTGGCTTCAGAGGTCCTCTGAACTGGTACCGGAACACAGAA
AGAAACTGGAAGTGGAGCTGTAAAGGGTTGGGACGAAAGATCTTGGTCCCAGCCCTGATGGTCACAGCTG
AGAAGGACATTGTACTCCGTCCTGAAATGTCCAAGAACATGGAAAAGTGGATCCCTTTCCTGAAAAGGGG
ACACATTGAAGACTGTGGTCACTGGACACAGATAGAGAAACCAACTGAGGTGAACCAGATTCTCATCAAG
TGGCTGCAGACTGAAGTCCAGAACCCATCAGTGACCTCCAAGATTTAGCCACTGGGGACACATTTTAGTT
TCTGGAACACAGCCTGATCTACAAGTACCAGCATCGTTCTTTTGCCAGCCAGTGATTTTCTTTTAAATGA
AAATGATGGGATGAGATGTAATTTTAGATCGGGAAGAGAGTGTGTGTCTAATTCTTTTGAGTATGCCTGT
GCCATCAGAGAAGAGATCCCACCCCAGTAGGAAGGTATGGGGCAGTCCAGTTTATAACTTTGCAACCAAA
CCCAAGCCTGCTCTTTTTGAAGCAGCTGATTGGAGAGTAAAGATTTTCATTCAATAAAGCTAAACCTCAG
GGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM_007940

**Insert Size:** 1665 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).

**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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | BC015087, AAH15087 |
| **RefSeq Size:** | 2127 bp |
| **RefSeq ORF:** | 1665 bp |
| **Locus ID:** | 13850 |
| **UniProt ID:** | P34914 |
| **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]<br>Transcript Variant: This variant (1) encodes the longest isoform (a). |