

Product datasheet for **SC112331**

Epoxide hydrolase (EPHX1) (NM_000120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epoxide hydrolase (EPHX1) (NM_000120) Human Untagged Clone
Tag:	Tag Free
Symbol:	Epoxide hydrolase
Synonyms:	EPHX; EPOX; HYL1; MEH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112331 sequence for NM_000120 edited (data generated by NextGen Sequencing)

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ATGTGGCTAGAAATCCTCCTCACTTCAGTGCTGGGCTTTGCCATCTACTGGTTCATCTCC
CGGGACAAAGAGGAACTTTGCCACTTGAAGATGGGTGGTGGGGCCAGGCACGAGGTCC
GCAGCCAGGGAGGACGACAGCATCCGCCCTTTCAAGGTGGAACGTCAGATGAGGAGATC
CAGCACTTACACCAGAGGATCGATAAGTCCGTTTCACCCACCTTTGGAGGACAGCTGC
TTCCACTATGGCTTCAACTCCAACCTACCTGAAGAAAGTCATCTCCTACTGGCGGAATGAA
TTTGACTGGAAGAAGCAGGTGGAGATTCTCAACAGATACCCTCACTTCAAGACTAAAATT
GAAGGGCTGGACATCCACTTCATCCACGTGAAGCCCCCAGCTGCCCGCAGGCCATACC
CCGAAGCCCTTGCTGATGGTGCACGGCTGGCCCGGCTCTTTCTACGAGTTTTATAAGATC
ATCCCACTCCTGACTGACCCCAAGAACCATGGCCTGAGCGATGAGCACGTTTTTGAAGTC
ATCTGCCCTTCCATCCCTGGCTATGGCTTCTCAGAGGCATCTCCAAGAAGGGTTCAAC
TCGGTGGCCACC GCCAGGATCTTTACAAGCTGATGCTGCGGCTGGGCTCCAGGAATTC
TACATTCAAGGAGGGGACTGGGGTCCCTGATCTGCACTAATATGGCCAGCTGGTGCC
AGCCACGTGAAAGCCTGCACCTGAACATGGCTTTGGTTTTAAGCAACTTCTCTACCCTG
ACCTCCTCCTGGGACAGCGTTTCGGGAGGTTTCTTGGCCTCACTGAGAGGGATGTGGAG
CTGCTGTACCCCGTCAAGGAGAAGGTATTCTACAGCCTGATGAGGGAGAGCGGCTACATG
CACATCCAGTGCACCAAGCCTGACACCGTAGGCTCTGCTGTAATGACTCTCTGTGGGT
CTGGCTGCCTATATTCTAGAGAAGTTTTCTACCTGGACCAATACGGAATTCGGATACCTG
GAGGATGGAGGCTGGAAGGAAGTTCTCCCTGGACGACTGCTGACCAACGTCATGCTC
TACTGGACAACAGGCACCATCATCTCTCCAGCGCTTCTACAAGGAGAAGCTGGGACAG
GGCTGGATGACCCAGAAGCATGAGCGGATGAAGTCTATGTGCCACTGGCTTCTCTGCC
TTCCCTTTTGAGCTATTGCACACGCCTGAAAAGTGGGTGAGGTTCAAGTACCCAAAGCTC
ATCTCCTATTCTACATGGTTCTGTGGGGCCACTTTGCGGCTTTGAGGAGCCGGAGCTG
CTCGCCAGGACATCCGCAAGTTCTGTGCTGGTGGAGCGCAATGA
    
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Clone variation with respect to NM_000120.3
 357 g=>a;990 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000120 unedited

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GTTCAAATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACCCAGGCAGAGCTCCC
AGCTCTCTTTCCAAGGAGTAATCAGAGGGTGAGAACGTGGAGCCTGGTGGACAGGTGAA
AGCACTGGGATCTTTCTGCCAGAAAGGGGAAAGTTGCACATTTATCTCAGAGGGAAG
CGACAGCAGTGCTTCTCCCTGTGCTGAGGAGCCATGTGGCTAGAAATCCTCCTCACTTCA
GTGCTGGGCTTTGCCATCTACTGGTTTCTCTCCGGGACAAAGAGGAACTTTGCCACTT
GAAGATGGGTGGTGGGGCCAGGCACGAGGTCCGCAGCCAGGGAGGACGACAGCATCCGC
CCTTTCAAGGTGGAACGTCAGATGAGGAGATCCACGACTTACACCAGAGGATCGATAAG
TTCCGTTTCAACCCACCTTTGGAGGACAGCTGCTTCCACTATGGCTTCAACTCCAACACTAC
CTGAAGAAAGTCACTCCTACTGGCGGAATGAATTTGACTGGAAGAAGCAGGTGGAGATT
CTCAACAGATACCCTCACTTCAAGACTAAAATTGAAGGGCTGGACATCCACTTCAATCCAC
GTGAAGCCCCCAGCTGCCCGCAGGCCATACCCGAAGCCCTTGGCTGATGGTGCACGGC
TGGCCCGGCTCTTTCTACGAGTTTTATAAGATCATCCCACTCCTGACTGACCCCAAGAAC
CATGGCCTGAGCGATGAGCACGTTTTTGAAGTCATCTGCCCTTCCATCCCTGGCTATGGC
TTCTCAGAGGCATCCTCCAGAAGNGTTCAACTCGGTGGCCACGCCAGGATCTTTTAAAG
CTGATGCTGNCGCTGNGCTTCCAGGAATTCTACATTAGGGGAGGGACTGGGGTCCCTGA
TCTGCACTATATGGCCNAGCTGTGCCANCN
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000120 unedited NTTCTTGNACCCGGCCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTAGAGTAAAG TCGTTTATCATCAAAGCCATGTTGCTTACCACACGGAGTTGGGGGTTGGGGAGTGAGCTT GGAGGGGTGAGGGGGTGAAGCGTGGGCTCCCAGCATGGGCAGGGGACGGAGGCAAACATCAT TCCTCAGAAAAGGGGTATCTTCCCAAGAAAAGCCTGGAGGGCACTTGTGGGGGGAGGTG GCAGGCCGGGGGAGAGGGGTGGGTCAATTGCCGCTCCAGCACCGACAGGAACCTGCCGATG TCCTGGGCGAGCAGCTCCGGCTCCTCAAAGGCCGCAAAGTGGCCCCACGAACCATGTAG GAATAGGAGATGAGCTTTGGGTACTTGAACCTCACCCACTTTTCAGGCGTGTGCAATAGC TCAAAAGGGAAGGCAGAGAAGCCAGTGGGCACATAGACCTTCATCCGCTCATGCTTCTGG GTCATCCAGCCCTGTCCCAGTTCTCCTTGTAAGCGCTGGGAGGAGATGATGGTGCCT GTTGTCCAGTAGAGCATGACGTTGGTCAGCAGGTCGTCAGGGAGAACCTCCTTTCCAGG CCCTCATCCTTCAGGTATCGGAATTCGTATTGGTCCAGGTAGAAAACCTCTCTAGAATA TAGGCAGCCGGACCCACAGAGATCATTAGAGCAGAACCTACCGTGTCCAGGCTTGGTGC ACTGGATGTGCATGTAACCGCTTTTCTTATAAGGCTGTAAAATACCTCTCTTTGACGG GTACAGAAGTTCCATTCTTTAATGAGGCCAAGAACCTCCGAAACCTGTCCAGGA GAAGGGTCAGGGTAAAAATTTTGTAAAACCAAAGCCTGTTAGGGCCGCCCTTACGG GGTGGGCCACATGGGCCTATTATGGAATACAGGACCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000120
Insert Size:	2000 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_000120.2 , NP_000111.1
RefSeq Size:	1856 bp

RefSeq ORF:	1368 bp
Locus ID:	2052
UniProt ID:	P07099
Cytogenetics:	1q42.12
Domains:	abhydrolase
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Metabolism of xenobiotics by cytochrome P450
Gene Summary:	<p>Epoxide hydrolase is a critical biotransformation enzyme that converts epoxides from the degradation of aromatic compounds to trans-dihydrodiols which can be conjugated and excreted from the body. Epoxide hydrolase functions in both the activation and detoxification of epoxides. Mutations in this gene cause preeclampsia, epoxide hydrolase deficiency or increased epoxide hydrolase activity. Alternatively spliced transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Dec 2008]</p> <p>Transcript Variant: This variant (1) is the longer transcript. Variants 1, 2 and 3 encode the same protein.</p>