

## Product datasheet for **SC319259**

### EPHX2 (NM\_001979) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPHX2 (NM_001979) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPHX2
Synonyms:	ABHD20; CEH; SEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001979.4  
 CCCTGGCCTTCGCGCATCTCCCAGGTTAGCTGCGTGTCCGGGTGCTAGGCTGCAGACCCG  
 CCGCCATGACGCTGCGCGCGGCCGTCTTCGACCTTGACGGGGTGTGGCGCTGCCAGCGG  
 TGTTCCGGCGTCTCGGCCGACGGAGGAGGCCCTGGCGCTGCCAGAGGACTTCTGAATG  
 ATGCTTTCCAGAAAGGGGGACCAGAGGGTGCCACTACCCGGCTTATGAAAGGAGAGATCA  
 CACTTTCCAGTGGATACCACTCATGGAAGAAAAGTGCAGGAAGTGTCCGAGACCGCTA  
 AAGTCTGCCTCCCAAGAATTTCTCCATAAAAAGAAATCTTTGACAAGCGATTTCAGCCA  
 GAAAGATCAACCGCCCATGCTCCAGGCAGCTCTCATGCTCAGGAAGAAAGGATTCACCTA  
 CTGCCATCCTCACCAACCTGGCTGGACGACCGTGTGAGAGAGATGGCCTGGCCACG  
 TGATGTGTGAGCTGAAGATGCACCTTTGACTTCTGATAGAGTCTGTGAGGTGGGAATGG  
 TCAAACCTGAACCTCAGATCTACAAGTTTCTGCTGGACACCTGAAGGCCAGCCCAAGT  
 AGGTGTTTTTTTTGGATGACATCGGGGCTAATCTGAAGCCAGCCCGTACTTGGGAATGG  
 TCACCATCTGGTCCAGGACACTGACACGGCCCTGAAAGAACTGGAGAAAGTGACCGGAA  
 TCCAGCTTCTCAATACCCCGGCCCTCTGCCGACCTCTTGCAATCCAAGTGACATGAGCC  
 ATGGGTACGTGACAGTAAAGCCAGGGTCCGTCTGCATTTTGTGGAGCTGGGCTCCGGCC  
 CTGCTGTGTGCCTCTGCCATGGATTTCCGAGAGTTGGTATTCTTGGAGGTACCAGATCC  
 CTGCTCTGGCCCAGGCAGGTTACCGGGTCTAGCTATGGACATGAAAGGCTATGGAGAGT  
 CATCTGCTCCTCCGAAATAGAAGAATATTGCATGGAAGTGTATGTAAGGAGATGGTAA  
 CCTTCTGGATAAACTGGGCCTCTCTCAAGCAGTGTTCATTGGCCATGACTGGGGTGGCA  
 TGCTGGTGTGGTACATGGCTCTCTTCTACCCCGAGAGAGTGAGGGCGGTGGCCAGTTTGA  
 ATACTCCCTTTCATACCAGCAAATCCCAACATGTCCCTTTGGAGAGTATCAAAGCCAACC  
 CAGTATTTGATTACCAGCTCTACTTCCAAGAACCAGGAGTGGCTGAGGCTGAACTGGAAC  
 AGAACCTGAGTCGGACTTTCAAAGCCTCTTTCAGAGCAAGCGATGAGAGTGTTTTATCCA  
 TGCATAAAGTCTGTGAAGCGGGAGGACTTTTTGTAAATAGCCCAAGAGCCAGCCCTCA  
 GCAGGATGGTCACTGAGGAGGAAATCCAGTTCTATGTGCAGCAGTTCAAGAAGTCTGGTT  
 TCAGAGGTCTCTAAACTGGTACCGAAACATGGAAGGAACTGGAAGTGGGCTTGCAAAA  
 GCTTGGGACGGAAGATCCTGATTCGGCCCTGATGGTACGCGGAGAGGACTTCGTGC  
 TCGTTCCTCAGATGTCCCAGCACATGGAGGACTGGATTCCCCACCTGAAAAGGGGACACA  
 TTGAGGACTGTGGGCACTGGACACAGATGGACAAGCCAACCGAGGTGAATCAGATCTCA  
 TTAAGTGGCTGGATTCTGATGCCCGGAACCCACCGTGGTCTCAAAGATGTAGAACGAG  
 CGTGTGCCACGCTCAGCAGGTGTCCATCCTTCCACCTGCTGGGCAACCATTCTTAGTA  
 TACAGAGGTGGCCTTACACACATCTTGATGGATGGCAGCATTGTCTGAAGGGTTTGC  
 AGAAAAAAGATTTTTCTTTACATAAAGTGAATCAAATTTGACATTATTTTAGATCCAG  
 AGAAATCAGGTGTGATTAGTTCTCCAGGCATGAATGCATCGTCCCTTTATCTGTAAGAAC  
 CCTTAGTGTCTGTAGGGGGACAGAAATGGGGTGGCCAGGTGGTGAATTTCTTTGACCAA  
 TGCATAGTTTGGCAGAAAAATCAGCCGTTCAATTTAGAAGAATCTTAGCAGAGATTGGGAT  
 GCCTTACTCAATAAAGCTAAGATGACTATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001979
- Insert Size:** 1668 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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>	<u><a href="#">NM_001979.4</a></u> , <u><a href="#">NP_001970.2</a></u>
<b>RefSeq Size:</b>	2196 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	2053
<b>UniProt ID:</b>	<u><a href="#">P34913</a></u>
<b>Cytogenetics:</b>	8p21.2-p21.1
<b>Domains:</b>	abhydrolase, Hydrolase
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a member of the epoxide hydrolase family. The protein, found in both the cytosol and peroxisomes, binds to specific epoxides and converts them to the corresponding dihydrodiols. Mutations in this gene have been associated with familial hypercholesterolemia. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2012] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).