

# Product datasheet for RC401074

#### OriGene Technologies, Inc.

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# Epoxide hydrolase (EPHX1) (NM\_000120) Human Mutant ORF Clone

## **Product data:**

**Product Type:** Mutant ORF Clones

**Product Name:** Epoxide hydrolase (EPHX1) (NM\_000120) Human Mutant ORF Clone

Mutation Description: W97X

Affected Codon#: 97

Affected NT#: 290

Nucleotide Mutation: EPHX1 Mutant (W97X), Myc-DDK-tagged ORF clone of Homo sapiens epoxide hydrolase 1,

microsomal (xenobiotic) (EPHX1), transcript variant 1 as transfection-ready DNA

**Effect:** Poenil proein defiieny

**Symbol:** EPHX1

Synonyms: EPHX; EPOX; HYL1; MEH

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-Entry (PS100001)

Tag: Myc-DDK
ACCN: NM 000120

ORF Size: 288 bp
Restriction Sites: Sgfl-Mlul

## Epoxide hydrolase (EPHX1) (NM\_000120) Human Mutant ORF Clone - RC401074

ORF Nucleotide Sequence:

>RC401074 representing NM\_000120

Red=Cloning site Blue=ORF Green=Tags(s)

ATGTGGCTAGAAATCCTCCTCACTTCAGTGCTGGGCTTTGCCATCTACTGGTTCATCTCCCGGGACAAAG
AGGAAACTTTGCCACTTGAAGATGGGTGGTGGGGGCCAGGCACGAGGTCCGCAGCCAGGGAGGACGACAG
CATCCGCCCTTTCAAGGTGGAAACGTCAGATGAGGAGATCCACGACTTACACCAGAGGATCGATAAGTTC
CGTTTCACCCCACCTTTGGAGGACAGCTGCTTCCACTATGGCTTCAACTCCAACTACCTGAAGAAAGTCA
TCTCCTAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTCGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:** 

>RC401074 representing NM\_000120 Red=Cloning site Green=Tags(s)

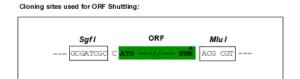
MWLEILLTSVLGFAIYWFISRDKEETLPLEDGWWGPGTRSAAREDDSIRPFKVETSDEEIHDLHQRIDKF RFTPPLEDSCFHYGFNSNYLKKVISY

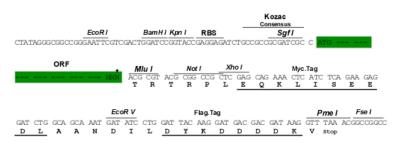
**SGPTRTRRL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

#### Epoxide hydrolase (EPHX1) (NM\_000120) Human Mutant ORF Clone - RC401074

**OTI Disclaimer:** 

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 <a href="mailto:customercom">customercom</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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).

**RefSeq:** NP 000111

**RefSeq Size:** 288 bp RefSeq ORF: 1368 bp

**Locus ID:** 2052

Cytogenetics:

**Domains:** abhydrolase

**Protein Families:** Druggable Genome, Protease

1q42.12

**Protein Pathways:** Metabolism of xenobiotics by cytochrome P450

**MW:** 10.6 kDa

**Gene Summary:** 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]