

Product datasheet for **SC325103**

Epoxide hydrolase (EPHX1) (NM_001136018) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epoxide hydrolase (EPHX1) (NM_001136018) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPHX1
Synonyms:	EPHX; EPOX; HYL1; MEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325103 representing NM_001136018. Blue=Insert sequence Red=Cloning site Green=Tag(s)

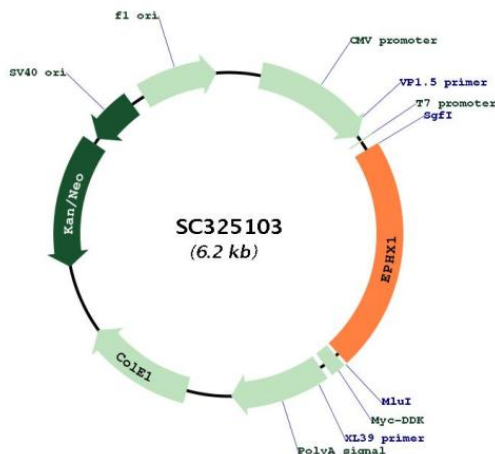
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001136018

Insert Size: 1368 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.

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:

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_001136018.3](#)

RefSeq Size: 1699 bp

RefSeq ORF: 1368 bp

Locus ID: 2052

UniProt ID: [P07099](#)

Cytogenetics:	1q42.12
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Metabolism of xenobiotics by cytochrome P450
MW:	52.9 kDa
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 (2) has an alternate upstream 5' UTR exon, as compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>