

Product datasheet for **RG232874**

EPHX2 (NM_001256482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPHX2 (NM_001256482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPHX2
Synonyms:	ABHD20; CEH; SEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232874 representing NM_001256482
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGGAGAGATCACACTTTCCAGTGGATACCACTCATGGAAGAAAAGTGCAGGAAGTCTCCGAGA
 CCGCTAAAGTCTGCCTCCCAAGAATTTCTCCATAAAAGAAATCTTTGACAAGGCGATTTTCAGCCAGAAA
 GATCAACCGCCCATGCTCCAGGCGCTCTCATGCTCAGGAAGAAAGATTCACTACTGCCATCCTCACC
 AACACCTGGCTGGACGACCGTGTGAGAGAGATGGCTGGCCAGCTGATGTGTGAGCTGAAGATGCACT
 TTGACTTCTGATAGAGTCGTGTGAGGTGGGAATGGTCAAACCTGAACCTCAGATCTACAAGTTTCTGCT
 GGACACCTGAAGGCCAGCCAGTGGTGTGTTTGGATGACATCGGGCTAATCTGAAGCCAGCC
 CGTGACTTGGGAATGGTACCATCCTGGTCCAGGACACTGACACGGCCCTGAAAGAAGTGGAGAAAGTGA
 CCGGAATCCAGCTTCTCAATACCCCGGCCCTCTGCCACCTCTTGAATCCAAGTGACATGAGCCATGG
 GTACGTGACAGTAAAGCCAGGGTCCGTCTGCATTTTGTGGAGCTGGGCTCCGGCCCTGCTGTGTGCTC
 TGGCATGGATTTCCCGAGAGTTGGTATTCTTGGAGGTACCAGATCCCTGCTCTGGCCAGGCAGGTACC
 GGGTCTAGCTATGGACATGAAAGGCTATGGAGAGTCATCTGCTCCTCCCGAAATAGAAGAATATTGCAT
 GGAAGTGTATGTAAGGAGATGGTAACCTTCTGGATAAACTGGGCTCTCTCAAGCAGTGTTCATTGGC
 CATGACTGGGGTGGCATGCTGGTGTGGTACATGGCTCTCTTACCCGAGAGAGTGAGGGCGGTGGCCA
 GTTTGAATACTCCCTTACATACCAGCAAATCCCAACATGTCCCCTTTGGAGAGTATCAAAGCCAACCCAGT
 ATTTGATTACCAGCTCTACTTCCAAGAACCAGGAGTGGCTGAGGCTGAACTGGAACAGAACCTGAGTCGG
 ACTTTCAAAGCCCTTTCAGAGCAAGCGATGAGAGTGTATTCATGCATAAAGTCTGTGAAGCGGGAG
 GACTTTTTGTAATAGCCAGAAGCCAGCCAGCTCAGCAGGATGGTCACTGAGGAGGAAATCCAGTTCTA
 TGTGCAGCAGTTCAAGAAGTCTGGTTTCAGAGGTCTCTAAACTGGTACCGAAACATGGAAGGAACTGG
 AAGTGGGCTTGCAAAAGCTTGGGACGGAAGATCCTGATTCCGGCCCTGATGGTACCGCGGAGAAGGACT
 TCGTGCTCGTTCTCAGATGTCCAGCACATGGAGGACTGGATCCCCACCTGAAAGGGGACACATTGA
 GGACTGTGGGCACTGGACACAGATGGACAAGCCAACCGAGGTGAATCAGATCCTCATTAAAGTGGCTGGAT
 TCTGATGCCCGGAACCCACCGTGGTCTCAAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232874 representing NM_001256482
 Red=Cloning site Green=Tags(s)

MKGEITLSQWIPLMEENCRKCSSETAKVCLPKNFSIKEIFDKAISARKINRPMQLAALMLRKKGFTTAILT
 NTWLDRAERDGLAQLMCELMHFDFLIESCQVGMVKPEPQIYKFLDLTKASPSEVFLDDIGANLKPA
 RDLGMVTILVQDITDALKELKVTGIQLLNTAPLPTSCNPSDMSHGYYTVKPRVRLHFVELGSGPAVCL
 CHGFPEWYSWRYPALAQAGYRVLAMDMDKGYGESSAPPEIEEYCMVLCHEMVTFLDKLGLSQAVFIG
 HDWGGMLVWYMLFYPERVRAVSLNTPFIPANPNMSPLESIKANPVFDYQLYFQEPGVAEAELEQNLRS
 TFKSLFRASDESVL SMHKVCEAGGLFVNSPEEPSLSRMVTEEEIQFYVQQFKKSGFRGPNWYRNMERNW
 KWACKSLGRKILIPALMVTAEKDFVLPQMSQHMEDWIPHLKRGHIEDCGHWTQMDKPTVEVNQILIKWLD
 SDARNPPVVS KM

TRTRPLE - GFP Tag - V

Restriction Sites:

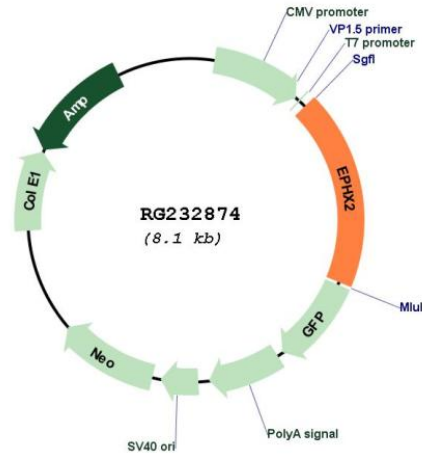
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001256482

ORF Size: 1506 bp

OTI Disclaimer: 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](#)

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).

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_001256482.2](#)

RefSeq Size: 2252 bp

RefSeq ORF: 1509 bp

Locus ID: 2053

UniProt ID: [P34913](#)

Cytogenetics: 8p21.2-p21.1

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Gene Summary: 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]