

Product datasheet for **RG232842**

EPHX2 (NM_001256483) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPHX2 (NM_001256483) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG232842 representing NM_001256483
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAAAC**TGCAGGAAGT**GCTCCGAGACCGCTAAAGTCTGCCTCCCCAAGAATTTCTCCATAAAAG
 AAATCTTTGACAAGGCGATTT**CAGCCAGAAAGATCAACC**GCCCATGCTCCAGGCAGCTCTCATGCTCAG
 GAAGAAAGGATTCACTACTGCCATCCTCACCAACACCTGGCTGGACGACCGTGCTGAGAGAGATGGCCTG
 GCCCAGCTGATGTGTGAGCTGAAGATGCACTTTGACTTCTGATAGAGTCGTGT**CAGGTGGGAATGGTCA**
 AACCTGAACCTCAGATCTACAAGTTTCTGCTGGACACCC**TGAAGGCCAGCCCCAGT**GAGGTGTTTTTTTT
 GGATGACATCGGGGCTAATCTGAAGCCAGCCCGT**GACTTGGGAATGGT**CACCATCCTGGTCCAGGACACT
 GACACGGCCCTGAAAGAACTGGAGAAAGT**GACCGGAATCCAGT**TCTCAATACCCCGGCCCTCTGCCGA
 CCTCTTGCAATCCAAGT**GACATGAGCCATGGGT**ACGTGACAGTAAAGCCAGGGTCCGTCTGCATTTTGT
 GGAGCTGGGCTCCGGCCCTGCTGTGTGCCTCTGCCATGGATTTCCCGAGAGTTGGTATTCTTGGAGGTAC
 CAGATCCCTGCTCTGGCCAGGCAGTTACCGGGTCTAGCTATGGACATGAAAGCTATGGAGAGTCAT
 CTGCTCCTCCCGAAATAGAAGAATATTGCATGGAAGTGTATGTAAAGGAGATGGTAACTTCTGGATAA
 ACTGGGCCTCTCTCAAGCAGTGTTCATTGGCCATGACTGGGGTGGCATGCTGGTGTGGTACATGGCTCTC
 TTCTACCCCGAGAGAGTGAGGGCGGTGGCCAGTTTGAATACTCCCTTCATACCAGCAAATCCCAACATGT
 CCCCTTTGGAGAGATCAAAGCCAACCCAGTATTTGATTACCAGCTCTACTTCCAAGAACCAGGAGTGGC
 TGAGGCTGAAC**TGGAACGAACTGAGTCG**GACTTTCAAAGCCCTTTCAGAGCAAGCGATGAGAGTGTT
 TTATCCATGCATAAAGTCTGTGAAGCGGGAGGACTTTTTGTAAATAGCCAGAAAGAGCCAGCCCTCAGCA
 GGATGGTCACTGAGGAGGAAATCCAGTTCTATGTGCAGCAGTTC**CAAGAAGTCTGGTTT**CAGAGCTCTCT
 AAAGTGGTACCGAAACATGGAAAGGA**ACTGGAAGTGGGCTT**GCAAAAGCTTGGGACGGAAGATCCTGATT
 CCGGCCCTGATGGT**CACGCGGAGAAGGACT**TCGTGCTCGTTCCTCAGATGTCCAGCACATGGAGGACT
 GGATCCCCACCTGAAAAGGGGACACATTGAGGACTGTGGGCACTGGACACAGATGGACAAGCCAACCGA
 GGTGAATCAGATCCTCATTAAAGTGGCTGGATTCTGATGCCCGGAACCCACCGGTGGTCTCAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232842 representing NM_001256483
 Red=Cloning site Green=Tags(s)

MEENCRKCSETAKVCLPKNFSIKEIFDKAISARKINRPMLQAALMLRKKGFTTAILTNTWLDRAERDGL
 AQLMCELKMHDFLIESCQVGMVKPEPQIYKFLDLTKASPSEVVFLDDIGANLKPARDLGMVTILVQDT
 DTALKELEKVTGIQLLNTAPLPTSCNPSDMSHGYYTVKPRVRLHFVELGSGPAVCLCHGFPEWSWRY
 QIPALAQAGYRVLAMD**MKYGESSAPPEIEEY**CMEVLC**KEMVTF**LDKLG**SQAVF**IGHDWG**GMLV**WY**MA**
 FYPERVRAVASL**NTPFIPANPN**MSPLES**IKANPV**FDYQLYFQEPGVAEAELEQNL**SRTFKSL**FRASDES**V**
 LSMHKVCEAGGLFVNSPEEPSL**SRMVTEEEIQFYV**Q**QFKKSG**FR**GPLN**WYRN**MERN**NKWACKSLGRKILI
 PALM**VTAEKDF**LV**PQMSQH**MEDW**IPHLKRGH**IEDCGHW**TQMDK**PTEVN**QILIKW**LDSDARNPPV**VS**KM

TRTRPLE - GFP Tag - V

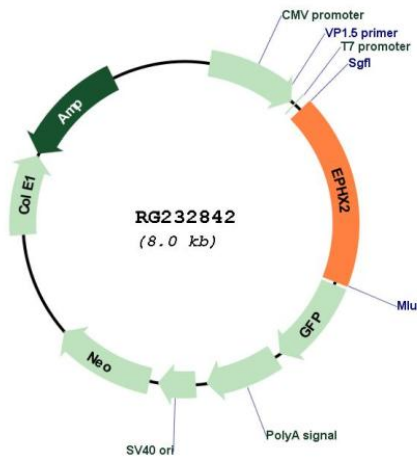
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256483

ORF Size: 1467 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_001256483.2](#)

RefSeq Size: 2205 bp

RefSeq ORF: 1470 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]