

Product datasheet for **RG202489**

EPHX2 (NM_001979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPHX2 (NM_001979) 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:

>RG202489 representing NM_001979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCTGCGCGGCCGCTCTTCGACCTTGACGGGTGCTGGCGCTGCCAGCGGTGTTCCGGCTCCTCG
 GCCGCACGGAGGAGGCCCTGGCGCTGCCAGAGGACTTCTGAATGATGCTTCCAGAAAGGGGGACCAGA
 GGGTGCCACTACCCGGCTTATGAAAGGAGAGATCACACTTCCAGTGGATACCACTCATGGAAGAAAAAC
 TGCAGGAAGTGCTCCGAGACCGCTAAAGCTGCCTCCCAAGAATTTCTCCATAAAAGAAATCTTTGACA
 AGGCGATTTAGCCAGAAAGATCAACCGCCCCATGCTCCAGGCAGCTCTCATGCTCAGGAAGAAAGGATT
 CACTACTGCCATCCTACCAACACCTGGCTGGACGACCGTGTGAGAGAGATGGCCTGGCCAGCTGATG
 TGTGAGCTGAAGATGCACCTTGACTTCTGATAGAGTCGTGTGAGTGGGATGGTCAAACCTGAACCTC
 AGATCTACAAGTTTCTGCTGGACACCCTGAAGGCCAGCCCAGTGAAGTCTTTTTTTGGATGACATCGG
 GGTAATCTGAAGCCAGCCGCTGACTTGGGAATGGTACCATCCTGGTCCAGGACTGACACGGCCCTG
 AAAGAACTGGAGAAAGTACCCGGAATCCAGCTTCAATACCCCGGCCCTCTGCCGACCTTTGCAATC
 CAAGTGACATGAGCCATGGGTACGTGACAGTAAAGCCAGGGTCCGTCTGCATTTTGGGAGCTGGGCTC
 CGGCCCTGCTGTGTGCCTCTGCCATGGATTTCCGAGAGTTGGTATTCTTGGAGGTACCAGATCCCTGCT
 CTGGCCAGGCAGGTTACCGGTCTAGCTATGGACATGAAAGGCTATGGAGAGTCATCTGCTCCTCCC
 AAATAGAAGAATATTGCATGGAAGTGTATGTAAGGAGATGGTAACTTCTGGATAAATGGGCCTCTC
 TCAAGCAGTGTTCAATGGCCATGACTGGGTGGCATGCTGGTGTGGTACATGGCTCTCTTACCCCGAG
 AGAGTAGGGCGGTGGCCAGTTTGAATACTCCCTCATAACCAGCAAATCCCAACATGTCCCTTTGGAGA
 GTATCAAAGCCAACCCAGTATTTGATTACCAGCTCTACTTCCAAGAACCAGGAGTGGCTGAGGCTGAAT
 GGAACAGAACCTGAGTCGGACTTTCAAAGCCTTTCAGAGCAAGCGATGAGAGTGTTTTATCCATGCAT
 AAAGTCTGTGAAGCGGGAGGACTTTTTGTAAATAGCCAGAGCCAGCCTCAGCAGGATGGTCACTG
 AGGAGGAAATCCAGTTCTATGTGCAGCAGTTCAAGAAGTCTGGTTTCAGAGGTCCTCTAAACTGGTACCG
 AAACATGGAAAGGAACTGGAAGTGGCTTGCAAAGCTTGGGACGGAAGATCCTGATTCGGCCCTGATG
 GTCACGGCGGAGAAGGACTTCGTGCTCGTTCTCAGATGTCCAGCACATGGAGGACTGGATTCCCACC
 TGAAGGGGACACATTGAGGACTGTGGGACTGGACACAGATGGACAAGCAACCGAGGTGAATCAGAT
 CCTCATTAAGTGCTGGATTCTGATGCCCGGAACCCACCGGTGGTCTCAAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202489 representing NM_001979
 Red=Cloning site Green=Tags(s)

MTLRAAVFDLDGVLALPAVFGVLRTEELALPRGLLNDAFQKGGPEGATTRLMKGEITLSQWIPLMEEN
 CRKSETAKVCLPKNFSIKEIFDKAISARKINRPMQLAALMLRKKGFTTAILTNTWLDDRAERDGLAQLM
 CELKMHDFDLIESCQVGMVKPEPQIYKFLDLTKASPSEVFLDDIGANLKPARDLGMVITLVQDQDTAL
 KELEKVTGIQLLNTAPLPTSCNPSDMSHGYYTVKPRVRLHFVELGSGPAVCLCHGFPEPESWYQIP
 LAQAGYRVLAMDKGYGESSAPPEIEEYCMVLCHEMVTFLDKLGLSQAVFIGHDWGGMLVWYMFYPE
 RVRVASLNTPFIPANPNMSPLESIKANPVFDYQLYFQEPGVAEAELEQNL SRTFKSLFRASDES
 VLSMHKVCEAGGLFVNSPEEPSLSRMVTEEEIQFYVQFKKSGFRGPLNWRNMRNWKWACKSLGRKILIPALM
 VTAEKDFVLPQMSQHMEDWIPHLKRGHIEDCGHWTQMDKPTEVNQILIKWLDSDARNPPVVS KM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001979

ORF Size: 1665 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_001979.6](#)

RefSeq Size: 2196 bp

RefSeq ORF: 1668 bp

Locus ID: 2053

UniProt ID: [P34913](#)

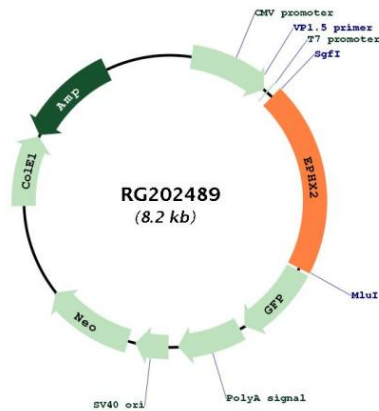
Cytogenetics: 8p21.2-p21.1

Domains: abhydrolase, Hydrolase

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]

Product images:



Circular map for RG202489