*h*EPHX2 VersaClone cDNA

Catalog Number: RDC2252

Specifications:

Gene:	*h*EPHX2
Accession:	NP_001970
Insert size:	1681bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*EPHX2 cDNA Plasmid

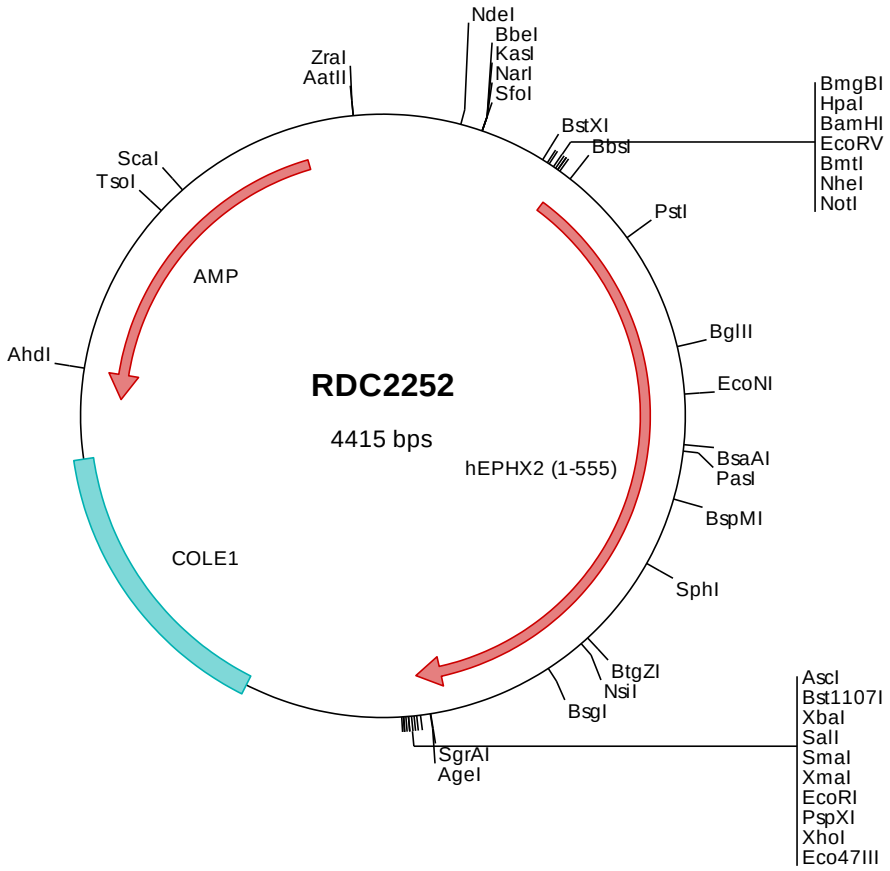
EPHX2 epoxide hydrolase 2

[*Homo sapiens* (human)]

Also known as: CEH; SEH

Summary:

EPHX2 is a member of the epoxide hydrolase family. It is found in both the cytosol and peroxisomes and binds to specific epoxides and converts them to the corresponding dihydrodiols. Mutations in EPHX2 have been associated with familial hypercholesterolemia. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

> RDC2252 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgacgctgc gcgcggccgt cttcgacctt gacggggtgc tggcgctgcc
 501  agcggtgttc ggcgtcctcg gccgcacgga ggaggccctg gcgctgccca gaggacttct gaatgatgct ttccagaaag ggggaccaga gggtgccact
 601  acccggctta tgaaaggaga gatcacactt tcccagtgga taccactcat ggaagaaaac tgcaggaagt gctccgagac cgctaaagtc tgcctcccca
 701  agaatttctc cataaaagaa atctttgaca aggcgatttc agccagaaag atcaaccgcc ccatgctcca ggcagctctc atgctcagga agaaaggatt
 801  cactactgcc atcctcacca acacctggct ggacgaccgt gctgagagag atggcctggc ccagctgatg tgtgagctga agatgcactt tgacttcctg
 901  atagagtcgt gtcaggtggg aatggtcaaa cctgaacctc agatctacaa gtttctgctg gacaccctga aggccagccc cagtgaggtc gttttttgg
1001  atgacatcgg ggctaatctg aagccagccc gtgacttggg aatggtcacc atcctggtcc aggacactga cacggccctg aaagaactgg agaaagtgac
1101  cggaatccag cttctcaata ccccggcccc tctgccgacc tcttgcaatc caagtgacat gagccatggg tacgtgacag taaagcccag ggtccgtctg
1201  cattttgtgg agctgggctc cggccctgct gtgtgcctct gccatggatt tcccgagagt tggtattctt ggaggtacca gatccctgct ctggcccagg
1301  caggttaccg ggtcctagct atggacatga aaggctatgg agagtcatct gctcctcccg aaatagaaga atattgcatg gaagtgttat gtaaggagat
1401  ggtaaccttc ctggataaac tgggcctctc tcaagcagtg ttcattggcc atgactgggg tggcatgctg gtgtggtaca tggctctctt ctaccccgag
1501  agagtgaggg cggtggccag tttgaatact cccttcatac cagcaaatcc caacatgtcc cctttggaga gtatcaaagc caacccagta tttgattacc
1601  agctctactt ccaagaacca ggagtggctg aggctgaact ggaacagaac ctgagtcgga ctttcaaaag cctcttcaga gcaagcgatg agagtgtttt
1701  atccatgcat aaagtctgtg aagcgggagg actttttgta aatagcccag aagagcccag cctcagcagg atggtcactg aggaggaaat ccagttctat
1801  gtgcagcagt tcaagaagtc tggtttcaga ggtcctctaa actggtaccg aaacatggaa aggaactgga agtgggcttg caaaagcttg ggacggaaga
1901  tcctgattcc ggccctgatg gtcacggcgg agaaggactt cgtgctcgtt cctcagatgt cccagcacat ggaggactgg attccccacc tgaaaagggg
2001  acacattgag gactgtgggc actggacaca gatggacaag ccaaccgagg tgaatcagat cctcattaag tggctggatt ctgatgcccg gaacccaccg
2101  gtggtctcaa agatgtaaag gcgcgccagt atactctaga gtcgacaccc ggggaattcc tcgagcgctc gtctctagct tggcgtaatc atggtcatag
2201  ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgta aagcctgggg tgcctaatga gtgagctaac
2301  tcacattaat tgcgttgcgc tcactgcccg ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt
2401  gcgtattggg cgctcttccg cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc actcaaaggc ggtaatacgg
2501  ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaagg ccagcaaaag gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc
2601  ataggctccg ccccccctgac gagcatcaca aaaatcgacg ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt ttcccccctgg
2701  aagctccctc gtgcgctctc ctgttccgac cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgctttctca atgctcacgc
2801  tgtaggtatc tcagttcggt gtaggtcgtt cgctccaagc tgggctgtgt gcacgaaccc cccgttcagc ccgaccgctg cgccttatcc ggtaactatc
2901  gtcttgagtc caacccggta agacacgact tatcgccact ggcagcagcc actggtaaca ggattagcag agcgaggtat gtaggcggtg ctacagagtt
3001  cttgaagtgg tggcctaact acggctacac tagaaggaca gtatttggta tctgcgctct gctgaagcca gttaccttcg gaaaaagagt tggtagctct
3101  tgatccggca aacaaaccac cgctggtagc ggtggttttt ttgtttgcaa gcagcagatt acgcgcagaa aaaaaggatc tcaagaagat cctttgatct
3201  tttctacggg gtctgacgct cagtggaacg aaaactcacg ttaagggatt ttggtcatga gattatcaaa aaggatcttc acctagatcc ttttaaatta
3301  aaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttggtctg acagttacca atgcttaatc agtgaggcac ctatctcagc gatctgtcta
3401  tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat acgggagggc ttaccatctg gccccagtgc tgcaatgata ccgcgagacc
3501  cacgctcacc ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca gaagtggtcc tgcaacttta tccgcctcca tccagtctat
3601  taattgttgc cgggaagcta gagtaagtag ttcgccagtt aatagtttgc gcaacgttgt tgccattgct acaggcatcg tggtgtcacg ctcgtcgttt
3701  ggtatggctt cattcagctc cggttcccaa cgatcaaggc gagttacatg atcccccatg ttgtgcaaaa aagcggttag ctccttcggt cctccgatcg
3801  ttgtcagaag taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct tttctgtgac
3901  tggtgagtac tcaaccaagt cattctgaga atagtgtatg cggcgaccga gttgctcttg cccggcgtca atacgggata ataccgcgcc acatagcaga
4001  actttaaaag tgctcatcat tggaaaacgt tcttcggggc gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaaccc actcgtgcac
4101  ccaactgatc ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa ggcaaaatgc cgcaaaaaag ggaataaggg cgacacggaa
4201  atgttgaata ctcatactct tccttttca atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat ttagaaaaat
4301  aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctgacgt ctaagaaacc attattatca tgacattaac ctataaaaat aggcgtatca
4401  cgaggccctt tcgtc
```

> RDC2252 Translated Insert Sequence

```
   1  mtlraavfdl dgvlalpavf gvlgrteeal alprgllnda fqkggpegat trlmkgeitl sqwiplmeen crkcsetakv clpknfsike ifdkaisark
 101  inrpmlqaal mlrkkgftta iltntwlddr aerdglaqlm celkmhfdfl iescqvgmvk pepqiykfll dtlkaspsev vfldiganl kpardlgmvt
 201  ilvqdtdtal kelekvtgiq llntpaplpt scnpsdmshg yvtvkprvrl hfvelgsgpa vclchgfpes wyswryqipa laqagyrvla mdmkgygess
 301  appeieeycm evlckemvtf ldklglsqav fighdwggml vwymalfype rvravaslnt pfipanpnms plesikanpv fdyqlyfqep gvaeaeleqn
 401  lsrtfkslfr asdesvlsmh kvceagglfv nspeepslsr mvteeeiqfy vqqfkksgfr gplnwyrnme rnwkwacksl grkilipalm vtaekdfvlv
 501  pqmsqhmedw iphlkrghie dcghwtqmdk ptevnqilik wldsdarnpp vvskm
```