

Product datasheet for **RR200434**

Ephx1 (NM_012844) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephx1 (NM_012844) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ephx1
Synonyms:	mEH; MEH8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200434 representing NM_012844
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCTGGAACCTTGCTCTGGCTTCCCTTCTGGCTTTGTCATCTACTGGTTTGTCTCCGGGACAAGG
 AGGAAACCTTACCACTAGGAGATGGATGGTGGGGCCAGGGTCAAAGCCATCAGCCAAAGAAGATGAGAG
 CATCCGGCCCTTCAAGGTGGAACATCAGATGAGGAGATCAAGGACTTACACCAGAGGATAGATAGGTTT
 CGGGCATCCCCACCTTTGGAGGGCAGCCGCTTCCACTATGGCTTCAACTCCAACATGAAGAAAGTGG
 TGTCTACTGGAGGAACGAGTTTACTGGAGGAAGCAGGTGGAGATCCTCAACAGTACCCTCACTTCAA
 GACCAAGATCGAAGGGCTTGACATCCACTTCATCCATGTGAAGCCTCCCAAGCTGCCCTCAGGGCGCACC
 CCAAAGCCCTTGCTGATGGTGCATGGCTGGCTGGATCCTTCTATGAGTTTTACAAGATCATCCACTAC
 TGACTGACCCCAAGTCCCAGGTCTGAGTGACGAGCACGTGTTTGAAGTCATCTGTCCCTCGATTCTGG
 CTATGGCTACTCAGAGGCATCCAGCAAGAAAGTTTAAATTCGGTGGCCACTGCGAGGATTTTCTACAAG
 CTGATGACACGGCTGGGCTTCCAGAAATTTACATTCAAGGCGGGGACTGGGGTCCCTCATCTGCACCA
 ACATGGCCAGATGGTCCCAACCACGTGAAAGGCCTGCCTTAAATATGGCTTTCATTTGAGAAGTTT
 TTACACCATGACTCCTCTCCTGGGCAACGCTTCGGGAGATTCCTTGGCTACACAGAGAAGGATATCGAG
 CTCTTGTACCCCTATAAGGAGAAGTTTTCTACAGCATCATGAGGGAGAGTGGCTACTTACACATCCAAG
 CCACCAAGCCAGACACTGTGGGCTGTGCTCTCAATGACTCTCCCGTGGGCTGGCTGCCTACATCTTAGA
 GAAGTTCTCCACCTGGACCAAGTCAAGTACCCTGAAGTGGAGGATGGAGGCTGGAGAGGAAGTTCTCC
 CTGGATGATCTGCTGGTTAACATCATGATCTACTGGACGACAGGAACATTGTCTCTCCCAACGCTACT
 ACAAGGAGAATTTGGCCAGGGCATCATGGTCCATAAACATGAGGGGATGAAGGCTTTTGTGCCCTGG
 CTTTTAGCCTTCCCTTCCGAGCTACTGCATGCCCCAGAAAAGTGGGTGAAGTCAAGTACCCCAACTC
 ATCTCCTATTCTACATGGAACGTGGGGGCCACTTTGCTGCCTTTGAAGGCCAAGCTTCTGGCCAGG
 ACATCCGCAAGTTCGTGTCCCTGGCTGAGCTGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200434 representing NM_012844
 Red=Cloning site Green=Tags(s)

MWLELVLASLLGFVIYWFVSRDKEETLPLGDGWWGPGSKPSAKEDESIRPFKVETSDEEIKDLHQRIDRF
 RASPPLEGRFHYGFNSNYMKVVSYWRNEFDWRKQVEILNQYPHFKTKIEGLDIHFIVHKPPQLPSGRT
 PKPLL MVHGWPFSFYEFYKIIPLLDPKSHGLSDEHVFEVICPSIPGYGYSEASSKKGLNSVATARIFYK
 LMTRLGFQKFYIQGGDWGLICTNMAQMPNVHVKGLHLNMAFISRSFYMTPLLQGRFGRFLGYTEKDIE
 LLYPYKEKVFYSIMRESGYLHIQATKPDVTGVCALNDSPVGLAAYILEKFSWTKSEYRELEDGGLERKFS
 LDDLNVNIMIYWTGTIVSSQRYKENLQGIMVHKHEGMKVFVPTGFSAFPSELLHAPEKWKVYKPKL
 ISYSYMERGGHFAAFEEPKLLAQDIRKFVSLAELQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

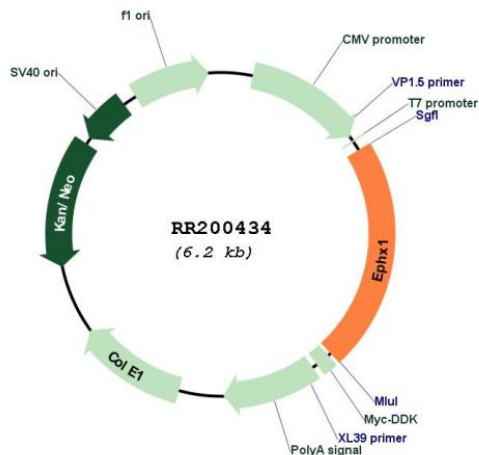
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012844

ORF Size: 1365 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_012844.3](#), [NP_036976.2](#)

RefSeq Size: 1761 bp

RefSeq ORF: 1368 bp

Locus ID: 25315

UniProt ID: [P07687](#)

Cytogenetics: 13q26

MW: 52.6 kDa

Gene Summary: catalyzes the hydration of a wide range of xenobiotic arene oxides [RGD, Feb 2006]