

## Product datasheet for **MG207267**

### **Ephx1 (NM\_010145) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Ephx1 (NM_010145) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | Ephx1                                    |
| Synonyms:                 | EH; Eph-1; Eph1; Epxh1; mEH              |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>MG207267 representing NM\_010145  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGGAACATCCTGGCTTCTGTGCTGGCTTTGTCTACTGTTTGTCTCCGGGACAAGG  
 AGGAGACCTTACCACTTGAAGATGGGTGGTGGGGCCAGGGTCAAAGCCATCAGCCAAAGAAGATGAGAG  
 CATCCGGCCCTTCAAGGTGGAACATCAGATGAGGAGATCAAGGACTTGCACCAGAGGATAGATAGGTTT  
 CGGGCATCCCCACCTTTGGAGGGCAGTCGCTTCCACTATGGCTTCAACTCCAGCTACCTGAAGAAAGTGG  
 TGTCTTCTGGAGGAATGAGTTTACTGGAGGAAGCAGGTGGAGATCCTCAACCAATACCCACACTTTAA  
 GACCAAGATTGAAGGGCTGGACATCCACTTCCACGTGAAACCTCCCCAGCTGCCCTCAGGCCGCACT  
 CCAAAGCCCTTGCTGATGGTGCACGGCTGGCTGGCTCCTTCTATGAGTTCTACAAGATTATCCCACTGC  
 TGACAGACCCCAAGACCCAGGCCCTGAGTATGAGCACGTGTTTGAAGTCATCTGTCCCTCAATTCTCTGG  
 CTATGGCTTCTCAGAGGCATCCAGCAAGAAAGTTTAAATTCGGTGGCCACTGCGAGGATCTTCTACAAG  
 CTGATGTCACGGCTGGGCTTCCAGAAGTTCTACATTCAAGGCGGGACTGGGGTCTCTCATCTGCACCA  
 ACATAGCCAGATGGTGCCCAACCACGTGAAAGTTTGCACCTGAATATGTCTTTCAATTTCAAGAAACAT  
 TTATTCCTGACCCCTCTCTGGGCCAACGTTTGGGAGATTTCTTGGCTACACAGAGAAGGATCTGGAG  
 CTCTTGTACCCATTCAAGGAAAAGTTTCTACAACATCATGAGGGAGAGTGGCTACTTACACATCCAGG  
 CCACCAAGCCGGACACTGTTGGCTGTGCTCTGAATGACTCTCCTGTGGGCTGGCTGCCTACATCTTAGA  
 GAAGTTCTCCACTGGACCAAGTCAAGTACCCTGAACTGGAGGATGGAGGCTGGAGAGGAAGTTCTCC  
 CTGGAAGATCTGCTGACTAACATCATGATCTACTGGACGACAGGAACATTGTCTCTCCAGCCGCTTCT  
 ACAAGGAAAACCTGGGCCAGGGTGTCTATGGTCCATAGACATGAGGGGATGAAGTCTTTGTGCCACTGG  
 CTATTCAGCCTTCCCTTCTGAGATCCTGCATGCCCCAGAAAAGTGGGTGAAGTCAAGTACCCCAACTC  
 ATCTCCTATTCTACATGGAACGTGGGGCCACTTTGCTGCCTTCAAGAGCCCAAGCTTCTGGCCAGG  
 ACATCCGCAAGTTCGTGTCCCTGGCTGAGCTGACG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207267 representing NM\_010145  
 Red=Cloning site Green=Tags(s)

MWLELILASVLGFVIYWFVSRDKEETLPLEDGWWGPGSKPSAKEDESIRPFKVTSDDEEIKDLHQRIDRF  
 RASPPLEGRFHYGFNSSLKVVSWRNEFDWRKQVEILNQYPHFKTKIEGLDIHF IHVKPPQLPSGR  
 PKPLL MVHGWPGSFYEFYKI IPLL TDPKTHGLSDEHVFEVICPSIPGYGFSEASSKGLNSVATARIFYK  
 LMSRLGFQKFYIQGGDWGSLICTNIAQMVPNHVKGLHLNMSFISRNIYSLTPLLQGRFGRFLGYTEKDL  
 LLYPFKEKVFYIMRESGYLHIQATKPDVTGVCALNDSPVGLAAYILEKFTWTKSEYRELEDGGLERKFS  
 LEDLLTNIMIYTTGTIVSSQRFYKENLGQGMVHRHEGMKVFVPTGYSAFPSEILHAPEKWKVKYPKL  
 ISYSYMERGGHFAAFEEPKLLAQDIRKVFVSLAELQ

**TRTRPLE** - GFP Tag - V

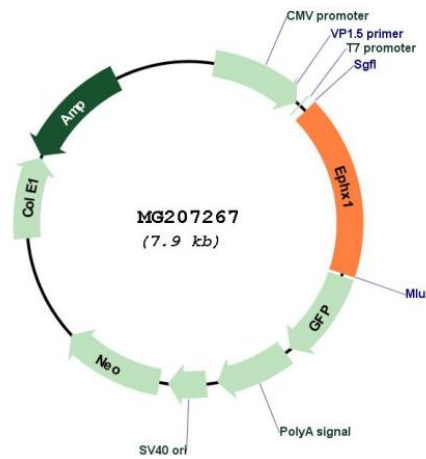
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_010145

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.

|                               |   |
|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_010145.3</a></u>  |
| <b>RefSeq Size:</b>           | 1708 bp   |
| <b>RefSeq ORF:</b>            | 1368 bp   |
| <b>Locus ID:</b>              | 13849   |
| <b>UniProt ID:</b>            | <u><a href="#">Q9D379</a></u>   |
| <b>Cytogenetics:</b>          | 1 84.48 cM  |
| <b>Gene Summary:</b>          | Biotransformation enzyme that catalyzes the hydrolysis of arene and aliphatic epoxides to less reactive and more water soluble dihydrodiols by the trans addition of water. May play a role in the metabolism of endogenous lipids such as epoxide-containing fatty acids.<br>[UniProtKB/Swiss-Prot Function]   |