

## Product datasheet for RC208559L2

### Eph receptor B4 (EPHB4) (NM\_004444) Human Tagged Lenti ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Eph receptor B4 (EPHB4) (NM_004444) Human Tagged Lenti ORF Clone |
| Tag:                      | mGFP   |
| Symbol:                   | Eph receptor B4  |
| Synonyms:                 | CMAVM2; HFASD; HTK; LMPHM7; MYK1; TYRO11                         |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                       |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC208559).   |
| Restriction Sites:        | SgfI-MluI  |
| Cloning Scheme:           |  |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

|           |           |
|-----------|-----------|
| ACCN:     | NM_004444 |
| ORF Size: | 2961 bp   |



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|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | 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>                | <a href="#">NM_004444.4</a>   |
| <b>RefSeq Size:</b>           | 4369 bp   |
| <b>RefSeq ORF:</b>            | 2964 bp   |
| <b>Locus ID:</b>              | 2050  |
| <b>UniProt ID:</b>            | <a href="#">P54760</a>  |
| <b>Cytogenetics:</b>          | 7q22.1  |
| <b>Domains:</b>               | pkinase, EPH_lbd, TyrKc, SAM, S_TKc, FN3  |
| <b>Protein Families:</b>      | Druggable Genome, Protein Kinase, Transmembrane   |
| <b>Protein Pathways:</b>      | Axon guidance   |
| <b>MW:</b>                    | 108.27 kDa  |
| <b>Gene Summary:</b>          | Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008] |

