

Product datasheet for RC208559L3

OriGene Technologies, Inc.

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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: Myc-DDK

Symbol: Eph receptor B4

Synonyms: CMAVM2; HFASD; HTK; LMPHM7; MYK1; TYRO11

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

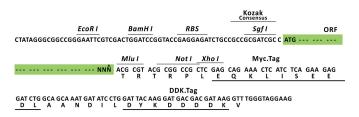
The ORF insert of this clone is exactly the same as(RC208559).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_004444

ORF Size: 2961 bp



Eph receptor B4 (EPHB4) (NM_004444) Human Tagged Lenti ORF Clone - RC208559L3

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 004444.4

RefSeq Size: 4369 bp RefSeq ORF: 2964 bp Locus ID: 2050 **UniProt ID:** P54760

Cytogenetics:

7q22.1 Domains: pkinase, EPH lbd, TyrKc, SAM, S TKc, FN3

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Axon guidance MW: 108.27 kDa

Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, **Gene Summary:**

> 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]