

# Product datasheet for RC214301L3

#### OriGene Technologies, Inc.

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## Eph receptor B1 (EPHB1) (NM\_004441) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Eph receptor B1 (EPHB1) (NM\_004441) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Eph receptor B1

Synonyms: ELK; EPHT2; Hek6; NET

Mammalian Cell

Selection:

Vector:

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

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

Puromycin

ORF Nucleotide The ORF insert of this clo

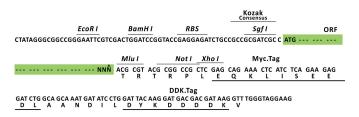
Sequence:

The ORF insert of this clone is exactly the same as(RC214301).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_004441

ORF Size: 2952 bp



### Eph receptor B1 (EPHB1) (NM\_004441) Human Tagged Lenti ORF Clone - RC214301L3

**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:** <u>NM 004441.3</u>

 RefSeq Size:
 4536 bp

 RefSeq ORF:
 2955 bp

 Locus ID:
 2047

 UniProt ID:
 P54762

Cytogenetics: 3q22.2

**Domains:** pkinase, EPH lbd, TyrKc, SAM, S TKc, FN3

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Axon guidance

**MW:** 109.9 kDa

Gene Summary: 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 is a receptor for ephrin-B family

members. [provided by RefSeq, Jul 2008]