

Product datasheet for RC216462L3

OriGene Technologies, Inc.

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Endothelin B Receptor (EDNRB) (NM_003991) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Endothelin B Receptor (EDNRB) (NM_003991) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Endothelin B Receptor

Synonyms: ABCDS; ET-B; ET-BR; ETB; ETBR; ETBR; ETRB; HSCR; HSCR2; WS4A

Mammalian Cell Puromycin

Selection:

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

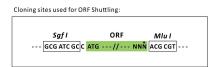
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216462).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_003991

ORF Size: 1308 bp



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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 003991.1</u>, <u>NP 003982.1</u>

 RefSeq Size:
 1578 bp

 RefSeq ORF:
 1311 bp

 Locus ID:
 1910

 UniProt ID:
 P24530

Cytogenetics: 13q22.3

Domains:

Protein Families: Druggable Genome, GPCR, Transmembrane

7tm 1

Protein Pathways: Calcium signaling pathway, Melanogenesis, Neuroactive ligand-receptor interaction

MW: 48.71 kDa

Gene Summary: The protein encoded by this gene is a G protein-coupled receptor which activates a

phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene. Alternative splicing and the use of alternative promoters results in

multiple transcript variants. [provided by RefSeq, Oct 2016]