

### Product datasheet for RC221794L4

# OriGene Technologies, Inc.

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## TrkB (NTRK2) (NM\_006180) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: TrkB (NTRK2) (NM\_006180) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: TrkB

Synonyms: DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC221794).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_006180

ORF Size: 2514 bp





#### TrkB (NTRK2) (NM\_006180) Human Tagged Lenti ORF Clone - RC221794L4

**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 006180.3</u>

RefSeq Size:5608 bpRefSeq ORF:2517 bpLocus ID:4915

UniProt ID: Q16620
Cytogenetics: 9q21.33

**Domains:** LRRNT, LRRCT, pkinase, TyrKc, LRR, S\_TKc, ig, IGc2, IG

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

**Protein Pathways:** MAPK signaling pathway, Neurotrophin signaling pathway

**MW:** 93.83 kDa

Gene Summary: This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This

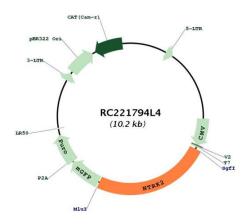
kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself

and members of the MAPK pathway. Signalling through this kinase leads to cell

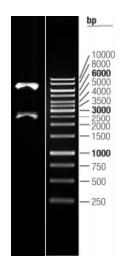
differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]



## **Product images:**



Circular map for RC221794L4



Double digestion of RC221794L4 using Sgfl and Mlul  $\,$