

Product datasheet for RC205343L3

OriGene Technologies, Inc.

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Neurotensin Receptor 2 (NTSR2) (NM_012344) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Neurotensin Receptor 2 (NTSR2) (NM_012344) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Neurotensin Receptor 2

Synonyms: NTR2

Mammalian Cell Puromycin

Selection:

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

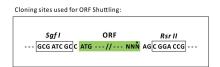
E. coli Selection: Chloramphenicol (34 ug/mL)

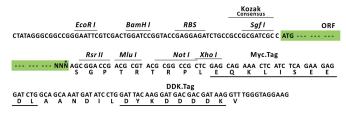
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205343).

Sequence:

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_012344

ORF Size: 1230 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 012344.2</u>

 RefSeq Size:
 1622 bp

 RefSeq ORF:
 1233 bp

 Locus ID:
 23620

 UniProt ID:
 095665

 Cytogenetics:
 2p25.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 45.5 kDa

Gene Summary: The protein encoded by this gene belongs to the G protein-coupled receptor family that

activate a phosphatidylinositol-calcium second messenger system. Binding and

pharmacological studies demonstrate that this receptor binds neurotensin as well as several other ligands already described for neurotensin NT1 receptor. However, unlike NT1 receptor, this gene recognizes, with high affinity, levocabastine, a histamine H1 receptor antagonist previously shown to compete with neurotensin for low-affinity binding sites in brain. These activities suggest that this receptor may be of physiological importance and that a natural

agonist for the receptor may exist. [provided by RefSeq, Jul 2008]