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# Product datasheet for RG205343

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

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Neurotensin Receptor 2 (NTSR2) (NM_012344) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Neurotensin Receptor 2 |
| **Synonyms:** | NTR2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG205343 representing NM_012344
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAACCAGCAGCCCGCGGCCCCCGCGGCCCAGCTCCAACCCGGGGCTGAGCCTGGACGCCCGGCTGG
GCGTGGACACTCGCCTCTGGGCCAAGGTGCTGTTCACCGCGCTCTACGCACTCATCTGGGCGCTGGGCGC
GGCGGGCAATGCGCTGTCCGTGCACGTGGTGCTGAAGGCGCGGGCCGGGCGAGCGGGGCGCCTGCGCCAC
CACGTGCTCAGCCTGGCGCTCGCGGGCCTGCTGCTGCTGCTGGTCGGCGTGCCGGTGGAGCTCTACAGCT
TCGTGTGGTTCCACTACCCCTGGGTCTTCGGCGACCTGGGCTGCCGCGGCTACTACTTCGTGCACGAGCT
GTGCGCCTACGCCACGGTGCTGAGCGTGGCAGGCCTGAGCGCCGAGCGCTGCCTAGCCGTGTGCCAGCCC
CTGCGTGCCCGCAGCCTGCTGACGCCACGCCGGACCCGGTGGCTGGTGGCGCTCTCGTGGGCCGCCTCGC
TCGGCCTCGCCATGCCCATGGCCGTCATCATGGGGCAGAAGCACGAACTCGAGACGGCGGACGGGGAGCC
GGAGCCCGCCTCGCGAGTGTGCACGGTGCTGGTGAGCCGCACCGCGCTCCAAGTCTTTATCCAGGTGAAT
GTGCTGGTGTCCTTCGTGCTCCCCTTGGCACTAACTGCTTTCCTGAATGGGGTCACAGTGAGCCACCTGC
TGGCCCTCTGCTCCCAAGTGCCGTCCACTTCTACCCCGGGCAGCTCCACCCCCAGCCGCCTGGAGCTGCT
GAGTGAGGAGGGTCTCCTCAGCTTCATCGTATGGAAGAAGACCTTTATCCAGGGAGGCCAGGTCAGCCTG
GTGAGACATAAAGACGTGCGCCGGATCCGCAGCCTCCAGCGCAGCGTCCAGGTTCTCAGAGCCATCGTGG
TCATGTATGTCATCTGCTGGCTGCCGTACCATGCCCGCAGGCTCATGTACTGCTACGTACCTGATGACGC
GTGGACTGACCCACTGTACAATTTCTACCACTACTTCTACATGGTGACCAACACACTTTTCTACGTCAGC
TCAGCTGTGACTCCTCTTCTCTACAACGCCGTGTCCTCCTCCTTCAGAAGACTCTTCCTGGAAGCCGTCA
GCTCCCTGTGTGGAGAGCACCACCCCATGAAGCGGTTACCCCCGAAGCCCCAGAGTCCCACCCTAATGGA
TACAGCTTCAGGCTTTGGGGATCCCCCAGAAACCCGGACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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**Protein Sequence:**

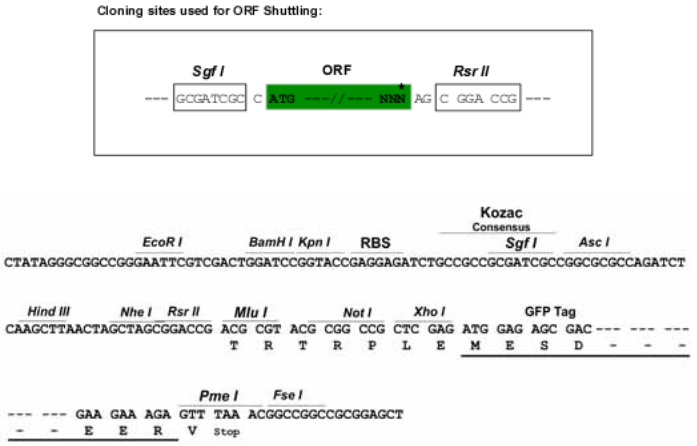
>RG205343 representing NM_012344
Red=Cloning site Green=Tags(s)

METSSPRPPRPSSNPGLSLDARLGVDTRLWAKVLFTALYALIWALGAAGNALSVHVVLKARAGRAGRLRH
HVLSLALAGLLLLLVGVPVELYSFVWFHYPWVFGDLGCRGYYFVHELCAYATVLSVAGLSAERCLAVCQP
LRARSLLTPRRTRWLVALSWAASLGLAMPMAVIMGQKHELETADGEPEPASRVCTVLVSRTALQVFIQVN
VLVSFVLPLALTAFLNGVTVSHLLALCSQVPSTSTPGSSTPSRLELLSEEGLLSFIVWKKTFIQGGQVSL
VRHKDVRRIRSLQRSVQVLRAIVVMYVICWLPYHARRLMYCYVPDDAWTDPLYNFYHYFYMVTNTLFYVS
SAVTPLLYNAVSSSFRRLFLEAVSSLCGEHHPMKRLPPKPQSPTLMDTASGFGDPPETRT

SGPTRTRRLE – GFP Tag – V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**




**ACCN:** NM_012344

**ORF Size:** 1230 bp

**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).

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**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_012344.2, NP_036476.1

**RefSeq Size:** 1700 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 23620

**UniProt ID:** O95665

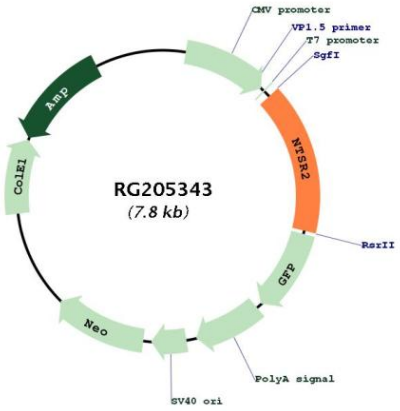
**Cytogenetics:** 2p25.1

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

**Protein Pathways:** Neuroactive ligand-receptor interaction

**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]

## Product images:




Circular map for RG205343

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