

## Product datasheet for RC205343

### Neurotensin Receptor 2 (NTR2) (NM\_012344) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurotensin Receptor 2 (NTR2) (NM_012344) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neurotensin Receptor 2
Synonyms:	NTR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205343 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCAGCAGCCCCGCGCCCCCGCGCCAGCTCCAACCCGGGGCTGAGCCTGGACGCCCGGCTGG  
GCGTGGACTCGCCTCTGGCCAAGGTGCTGTTACCGCGCTCTACGACTCATCTGGCGCTGGGCGC  
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CACGTGCTCAGCCTGGCGCTCGCGGGCCTGCTGCTGCTGGTGGCGTCCGGTGGAGCTCTACAGT  
TCGTGTGGTTCCACTACCCCTGGGTCTTCGGCGACCTGGGCTGCCGCGGCTACTACTTCGTGCACGAGCT  
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TCAGCTGTGACTCCTTCTCTACAACGCCGTGCTCCTCCTCCTCAGAAGACTCTTCTGGAAGCCGTCA  
GCTCCCTGTGGAGAGCACCACCCATGAAGCGGTTACCCCGAAGCCCGAGAGTCCCACCCTAATGGA  
TACAGTTCAGGCTTTGGGGATCCCCAGAAACCCGACC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205343 protein sequence  
Red=Cloning site Green=Tags(s)

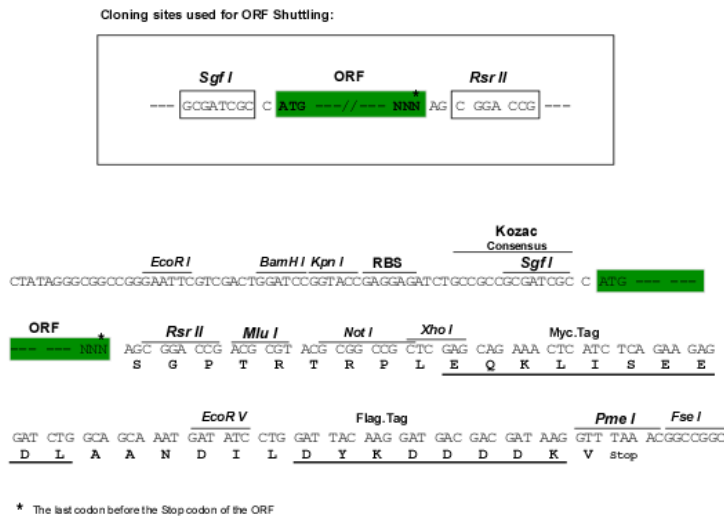
METSSPRPPRPSSNPGLSLDARLGV DTRLWAKVLF TAL YALI WALGAAGNALSVHVV LKARAGRAGRLRH  
HVL SLALAGL LLLL VGVPVEL YSFVWFHYPWVFGDLGCRGYFVHEL CAYATVLSVAGLSAERCLAVCQP  
LRARSL LTPRRTRWLVALSWAASLGLAMPMAVIMGQKHELETADGEPEPASRVCTVLSRTALQVFIQVN  
VLVSFV LPLALTAFLNGVTVSHLLALCSQVPSTSTPGSSTPSRLELLSEEGLLSFIVWKKTFIQGGQVSL  
VRHKDVRRI RSLQRSVQLRAIVVMYVICWLPYHARRLMYCYVPDDAWTDPLYNFYHYFYMTNTL FYVS  
SAVTPL LLYNAVSSSFRRFLFLEAVSSLCGEHHPMKRLPPKPQSPTLMDTASGF GDDPPETRT

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6186\\_e04.zip](https://cdn.origene.com/chromatograms/mk6186_e04.zip)

**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).

**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\\_012344.4](#)

**RefSeq Size:** 1622 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 23620

**UniProt ID:** [O95665](#)

**Cytogenetics:** 2p25.1

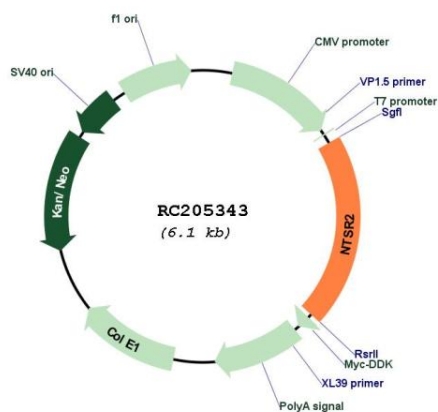
**Protein Families:** Druggable Genome, GPCR, Transmembrane

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

**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]

## Product images:



Circular map for RC205343