

Product datasheet for **SC123559**

Neurotensin Receptor 2 (NTR2) (BC022501) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurotensin Receptor 2 (NTR2) (BC022501) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurotensin Receptor 2
Synonyms:	levocabastine-sensitive neurotensin receptor; neurotensin receptor, type 2; neurotensin receptor 2; NTR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC022501 edited
 AGTGAGAGGGAGGGAGCGCCGGCCGGGAGCGGGATGGAAACCAGCAGCCCGGGCCCC
 CGCGGCCAGCTCCAACCCGGGGCTGAGCCTGGACGCCGGCTGGGCGTGGACACTCGCC
 TCTGGGCAAGGTGCTGTTCACCGCGCTACGCACCTATCTGGGCGCTGGGCGGGCGG
 GCAATGCGCTGTCCGTGCACGTGGTGTGAAGGCGGGCCGGGCGAGCGGGGCGCTGC
 GCCACCAGTGTACAGCTTCCGTGTGGTCCACTACCCCTGGGTCTTCGGCGACCTGGGTGCC
 TGGAGCTACTACTTCGTGCACGAGCTGTGCGCCTACGCCACGGTGTGAGCGTGGCAGGCC
 TGAGCGCCGAGCGCTGCCTAGCCGTGTGCCAGCCCTGCGTGCCCGCAGCCTGCTGACGC
 CACGCCGACCCGGTGGTGGTGGCGCTCTCGTGGGCGCCTCGCTCGGCCTCGCCATGC
 CCATGGCCGTATCATGGGGCAGAAGCAGCAACTCGAGACGGCGGACGGGAGCCGGAGC
 CCGCCTCGCGAGTGTGCACGGTGTGGTGGAGCCGACCGCGCTCCAAGTCTTTATCCAGG
 TGAATGTGCTGGTGTCTTCGTGCTCCCCTTGGCACTAACTGCTTTCCTGAATGGGGTCA
 CAGTGAGCCACCTGCTGGCCCTGCTCCCAAGTCCCGTCCACTTCTACCCGGGAGCT
 CCACCCAGCCGCTGGAGCTGTGAGTGAGGAGGGTCTCCTCAGCTTTCATCGTATGGA
 AGAAGACCTTTATCCAGGGAGGCCAGGTAGCCTGGTGAGACATAAAGACGTGCGCCGGA
 TCCGCAGCCTCCAGCGCAGCGTCCAGGTTCTCAGAGCCATCGTGGTATGTATGTCATCT
 GCTGGTGCCTACCATGCCCGCAGGCTCATGTACTGCTACGTACCTGATGACGCGTGA
 CTGACCCACTGTACAATTTTACCCTACTTCTACATGGTGACCAACACACTTTTCTACG
 TCAGCTCAGCTGTGACTCCTCTTCTCTACAACGCCGTGTCTCTCTCCTTCCAGAACTCT
 TCCTGGAAGCCGTGAGTCCCTGTGTGGAGAGCACCACCCATGAAGCGGTTACCCCGA
 AGCCCCAGAGTCCACCCTAATGGATACAGCTTACAGCTTGGGGATCCCCAGAAACCC
 GGACCTGAATGTAATGCAAGAATGAACAGAAACAAGCAAAATGACCAGCTGCTTAGTCAAC
 TGGCAAAGCAGGTGAGCAACCTCATCACTAATCAATCAAGCTTCGACGCCAGGGGACTT
 CTATCAACCCCTGCTCTGCTGAGAACCATCAAGCGCAGGGAAGCCACGTGACCCCTCTA
 GCCTCAGGCTCCCTCGTGTGTAGTGGAGATAAAGAACAGCACCCTCTTAGTGTG
 CCTGAGACTAAAGTGCTTAGCACAGAACCTGGTGCCTAGTAGATGCTCAATAAATTTTGG
 CTGGCACAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC022501 unedited
 GCTCAGGTTTNGTAAACGACTTCGCTATAGGCGGCCGCACAACCTCGTATAGCATAACATT
 ATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGTGAG
 AGGGAGGGAGCGCCGGCCGGGAGCGGGATGGAAACCAGCAGCCCGGGCCCCCGGGC
 CCAGCTCAACCCGGGGCTGAGCCTGGACGCCCGGTTGGGCGTGGACACTCGCCTCTGGG
 CCAAGGTGCTGTTACCCGCGCTACGCACCTATCTGGGCGCTGGGCGCGGCGGCAATG
 CGCTGTCCGTGCACGTGGTGTGAAGGCGCGGGCCGGGCGAGCGGGCGCCTGCGCCACC
 ACGTGCTCAGCCTGGCGCTCGCGGGCCTGCTGCTGCTGCTGGTGGCGTGGCGGTGGAGC
 TCTACAGTTCGTGTGGTCCACTACCCCTGGGTCTTCGGCGACCTGGGCTGCGCGGCT
 ACTACTTCGTGCACGAGCTGTGCGCCTACGCCACGGTGTGAGCGTGGCAGGCCTGAGCG
 CCGAGCGTGCCTAGCCGTGTGCCAGCCCTGCGTGCCCGCAGCCTGCTGACGCCACGCC
 GGACCCGGTGGTGGTGGCGCTCTCGTGGGCGCCTCGCTCGGCCTCGCCATGCCATGG
 GCCGTATCATGGGGCAGAAGCAGCAACTCGAGACGGCGGACGGGAGCCGGAGCCCGCC
 TCGCGAGTGTGCACGGTGTGGTGGAGCCGACCCGCTTCAAGTCTNTATCCAGTGAAT
 GTGCTAGTGGTCTTCGTGCTCCCCTGGGACTAACTGGCTTTCTTGAAGGGGGACAGGAG
 CCACCTGGTGGGCTCTGTTCCAAGGGCCGGCCCTTTTACCCGGGGATTCCCCCCCCA
 GCCGCTGAGCTGCTGATGAAGGAG

Restriction Sites: Please inquire
ACCN: BC022501
Insert Size: 1583 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC022501.1 , AAH22501.1
RefSeq Size:	1583 bp
RefSeq ORF:	1230 bp
Locus ID:	23620
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]