

## Product datasheet for **MG222912**

### **Ntsr1 (NM\_018766) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ntsr1 (NM\_018766) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ntsr1  
**Synonyms:** NT-1R; NTR-1; NTR1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222912 representing NM\_018766  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCACCTCAACAGCTCCGTGCAGCAGGGAGCCCCAAGTGAACCCGGTGCCAGCCCTCCACATCCAC  
AGTTCGGACTGGAGACGATGCTCCTGGCGCTCAGCTTGAGCAATGGTTCTGGCAATTCCTCAGAATCCAT  
CCTGGAGCCCAACAGCAACCTGGACGTGAACACTGACATTTATTCCAAGTGCTGGTGACCCTGTATAC  
CTGGCACTTTTGTGGTGGCACTGTGGCAACTCGGTGACAGCCTTCACTCTAGCGCGGAAGAAGTCGC  
TGCAGAGCCTGCAGAGCACTGTGCATTACCACCTGGGTAGCCTGGCACTGTCTGACCTGCTCATCCTGCT  
GCTGGCCATGCCCGTGGAGCTGTACAATTCATCTGGGTGCACCATCCCTGGGCCCTTTGGGATGCTGGC  
TGCCGTGGCTACTATTTCTGCGAGATGCCTGCACCTATGCCACAGCCCTCAATGTAGCCAGCCTGAGTG  
TGGAGCGCTACTTGGCCATCTGCCATCCCTTCAAGGCCAAGACCCTCATGTCCCAGCCGACCAAGAA  
ATTCATCAGTGCCATATGGCTAGCCTCGGCGCTGCTGGCTGTACCCATGCTTTTACCATGGGCCCTGCAG  
AACCAGTGCCGATGGCCAGCACCCCTGGTGGCCTGGTGTGCACACCCACGGTGGACACAGCCACCGTCA  
AGGTCGTCATCCAGGTTAACACCTTCATGTCCTTCTGTTCCCATGCTGATCATCTCCATCCTAAACAC  
TGTGATAGCCAACTGACCGTCAATGGTGCACAGGCTGCCGAGCAGGCGCGTGGTGTGTGCACCGTG  
GGCACCCACAACAGTTTAGAGCACAGCAGTTC AACATGTCATCGAGCCAGGCGCGTCCAGGCCCTGC  
GCCATGGAGTCCCTCGTCTTACGTGCTGTGGTAATCGCCTTTGTGGTCTGCTGGCTGCCCTACCACGTGCG  
GCGCCTCATGTTCTGCTATATCTCAGATGAACAGTGGACTACGTTCTCTTTCGACTTCTACCACTATTTT  
TATATGCTGACCAACGCTCTCTTCTACGTGAGCTCAGCCATCAATCCCATCCTTTACAACCTCGTCTCCG  
CCAACCTCCGCCAGGCTTCTGTCCACTGGCTTGCCTCTGTCTGGTGGCGCCGCCGAAAGAA  
GAGGCCAACGTTCTCCAGGAAGCCAAACAGCATGTCCAGCAACCATGCGTTTTCCACCAGCGCCACCCGG  
GAAACCTGTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222912 representing NM\_018766  
 Red=Cloning site Green=Tags(s)

MHLNSSVQQGAPSEPGAQPFPHQFGLLETMLLALSL SNGSGNSSSEILEPNSNLDVNTDIYSKVLVTAVY  
 LALFVVGTVGNSVTAFTLARKKSLQSLQSTVHYHLGSLALSDL ILLAMPVELYNFIWVHHPWAFGDAG  
 CRGYFLRDACTYATALNVAASLVERYLAICHFPKAKTLMRSRRTKFKISAIWLASALLAVPMLFTMGLQ  
 NRSADGQHPGGLVCTPTVDATVKVVIQVNTFMSFLPMLII SILNTVIANKLTMVHQAAEQGRGVCTV  
 GTHNSLEHSTFNMSIEPGRVQALRHGVLVLRVAVIAFVVCWLPYHVRRMLFCYISDEQWTTFLDFYHYF  
 YMLTNALFYVSSAINPILYNLVSANFRQVFLSTLAACLCPGWRRRRKRPTFSRKPNSMSSNHAFSTSATR  
 ETLY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018766

**ORF Size:** 1272 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\\_018766.2](#), [NP\\_061236.1](#)

**RefSeq Size:** 3916 bp

**RefSeq ORF:** 1275 bp

**Locus ID:** 18216

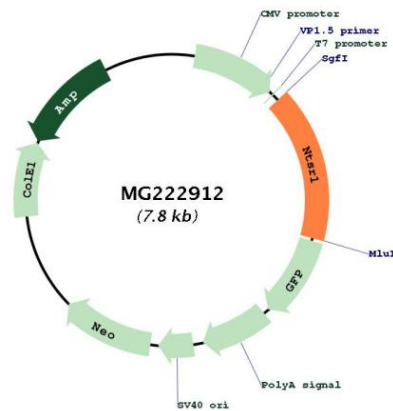
**UniProt ID:** [O88319](#)

**Cytogenetics:** 2 103.04 cM

**MW:** 47.2 kDa

**Gene Summary:** G-protein coupled receptor for the tridecapeptide neurotensin (NTS). Signaling is effected via G proteins that activate a phosphatidylinositol-calcium second messenger system. Signaling leads to the activation of downstream MAP kinases and protects cells against apoptosis. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG222912