

## Product datasheet for RC212934

### Neurokinin 1 Receptor (TACR1) (NM\_015727) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Neurokinin 1 Receptor (TACR1) (NM_015727) Human Tagged ORF Clone            |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Neurokinin 1 Receptor   |
| Synonyms:                 | NK1R; NKIR; SPR; TAC1R  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC212934 representing NM_015727<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATAACGTCCTCCCGGTGGACTCAGACCTCTCCCAACATCTCCACTAACACCTCGGAACCAATC  
AGTTCGTGCAACCAGCCTGGCAAATTGCCTTTGGGCAGCTGCCTACACGGTCATTGTGGTGACCTCTGT  
GGTGGCAACGTGGTAGTGATGTGGATCATCTTAGCCACAAAAGAATGAGGACAGTGACGAACTATTTT  
CTGGTGAACCTGGCCTTCGCGGAGGCCTCCATGGCTGCATTCAATACAGTGGTGAACCTTCACCTATGCTG  
TCCACAACGAATGGTACTACGGCCTGTTCTACTGCAAGTCCACAACCTTCTTCCCATCGCCGCTGTCTT  
CGCCAGTATCTACTCCATGACGGCTGTGGCCTTTGATAGGTACATGGCCATCATACATCCCTCCAGCCC  
CGGCTGTGAGCCACAGCCACAAAGTGGTCATCTGTGTCATCTGGGTCTGGCTCTCCTGCTGGCCTTCC  
CCCAGGGCTACTACTCAACCACAGAGACCATGCCAGCAGAGTCGTGTGCATGATCGAATGGCCAGAGCA  
TCCGAACAAGATTTATGAGAAAGTGTACCACATCTGTGTGACTGTGCTGATCTACTTCTCCCCCTGCTG  
GTGATTGGCTATGCATACACCGTAGTGGGAATCACACTATGGCCAGTGAGATCCCCGGGGACTCCTCTG  
ACCGTACCACGAGCAAGTCTCTGCCAAGCGCAAGGTGGTCAAAATGATGATTGTCGTGGTGTGCACCTT  
CGCCATCTGCTGGCTGCCCTTCCACATCTTCTCCTCCTGCCCTACATCAACCCAGATCTCTACCTGAAG  
AAGTTTATCCAGCAGGTCTACCTGGCCATCATGTGGCTGGCCATGAGCTCCACCATGTACAACCCCATCA  
TCTACTGCTGCCTCAATGACAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC212934 representing NM\_015727  
Red=Cloning site Green=Tags(s)

```
MDNVLPVDS DLS PNI STNT SEP NQ FV QPA WQ I V L W A A A Y T V I V V T S V V G N V V M W I I L A H K R M R T V T N Y F
L V N L A F A E A S M A A F N T V V N F T Y A V H N E W Y Y G L F Y C K F H N F F P I A A V F A S I Y S M T A V A F D R Y M A I I H P L Q P
R L S A T A T K V V I C V I W L A L L L A F P Q G Y Y S T T E T M P S R V V C M I E W P E H P N K I Y E K V Y H I C V T V L I Y F L P L L
V I G Y A Y T V V G I T L W A S E I P G D S S D R Y H E Q V S A K R K V V K M M I V V V C T F A I C W L P F H I F F L L P Y I N P D L Y L K
K F I Q Q V Y L A I M W L A M S S T M Y N P I I Y C C L N D R
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6101\\_d07.zip](https://cdn.origene.com/chromatograms/mk6101_d07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015727

**ORF Size:** 933 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\\_015727.3](#)

**RefSeq Size:** 1268 bp

**RefSeq ORF:** 936 bp

**Locus ID:** 6869

**UniProt ID:** [P25103](#)

**Cytogenetics:** 2p12

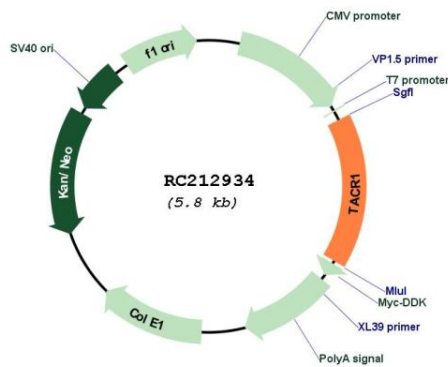
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction

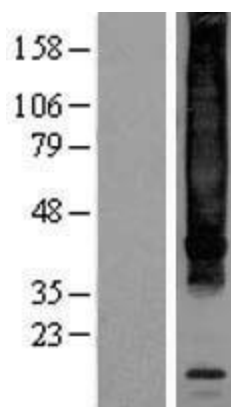
**MW:** 35.5 kDa

**Gene Summary:** This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008]

**Product images:**



Circular map for RC212934



Western blot validation of overexpression lysate (Cat# [LY414361]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212934 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).