

## Product datasheet for MR206405

### Tacr1 (NM\_009313) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tacr1 (NM\_009313) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tacr1  
**Synonyms:** NK-; NK1; Nk1r; Spr; Tac; Tac1r  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR206405 representing NM\_009313  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATAACGTCCTTCTGTGGACTCTGATCTCTTCCCAACACCTCCACCAACACTTCTGAGTCTAAC  
 AGTTTGTGCAACCTACCTGGCAAATTGCCTTTGGGCAGCCGCCTATACGGTCATCGTGGTACTCCGT  
 GGTGGGCAACGTAGTGGTGATATGGATCATTTTGGCCACAAGAGAATGAGGACAGTGACCAATTATTC  
 CTGGTGAACCTGGCCTTCGCTGAGGCCTGCATGGCTGCATTCAATACAGTGGTGAACCTTCACCTACGCG  
 TCCACAACGTGTGGTACTACGGCCTCTTTACTGCAAGTTTCACAACCTTCTCCCATTTGCTGCTCTCTT  
 CGCCAGTATCTACTCCATGACAGCTGTGGCCTTTGACAGATACATGGCCATCATCCACCCTTTCAGCCC  
 CGGCTGTGCGCCACTGCTACCAAAGTGGTCATCTTTGTCATCTGGGTCTGGCTCTCTGCTGGCCTTCC  
 CACAGGGCTACTACTCCACCACAGAGACCATGCCAGCAGAGTAGTGTGCATGATTGAGTGGCCAGAACA  
 TCCCAACAGGACTTACGAGAAAGCGTACCACATCTGTGTGACTGTGCTGATCTACTTCTGCCTCTGCTG  
 GTGATTGGCTATGCATACACTGTGGTAGGGATTACACTGTGGCCAGTGAGATCCCCGGTACTCCCTCTG  
 ACCGTTACCATGAGCAAGTCTCTGCCAAGCGCAAGGTGGTCAAAATGATGATCGTGGTTGTGTACCTT  
 CGCCATCTGCTGGCTGCCCTTCCACATCTTCTTCTCTGCCCTACATCAACCCAGATCTCTACCTTAAG  
 AAGTTCATCCAGCAGGTCTACCTGGCCAGCATGTGGCTGGCCATGAGTTCTACCATGTACAACCCCATCA  
 TCTACTGCTGCCTCAATGACAGTTCCGTCTGGGCTTCAAGCATGCCTTTCGCTGCTGCCCTTTCATCAG  
 TGCTGGTGATTATGAGGGCTGGAATGAAATCCACCCGATACCTCCAGACCCAGAGCAGCGTGTACAAG  
 GTCAGCCGCTGGAGACCACCATCTCCACTGTGGTGGGAGCCCATGAAGATGAGCCAGAGGAAGTCCCA  
 AGGCCACACCTTCATCCTGGATCTCACCTCCAATGGCTCCTCTCGAAGCAACTCGAAGACCATGACAGA  
 AAGCTCCAGCTTCTACTTAACATGCTGGCC

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206405 representing NM\_009313  
 Red=Cloning site Green=Tags(s)

MDNVLPVDSDFPNTSTNTSESQFVQPTWQIVLWAAAYTVIVVTSVVGNNVVIWIILAHKRMRTVTNYF  
 LVNLAF AEACMAAFNTVVNFTYAVHNVWYYGLFYCKFHNFPPIAALFASIYSMTAVAFDRYMAIIHPLQP  
 RLSATATKVVIFVIWVLLALLAFPOGYSTTETMPSRVVCMIEWPEHPNRTYEKAYHICVTVLIYFLPLL  
 VIGYAYTVVGITLWASEIPGDSSDRYHEQVSAKRKVVKMMIVVCTFAICWLPFHIFLLPYINPDLYLK  
 KFIQQVYLASMWLAMSSTMYNPIIYCCLNDRFRLGFKHAFRCPPFISAGDYEGLMKSTRYLQTSVVYK  
 VSRLETTISTVVG AHEDEPEEGPKATPSSLDLTSNGSSRSNSKTMTESSSFYSNMLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009313

**ORF Size:** 1221 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\\_009313.5](#)

**RefSeq Size:** 5021 bp

**RefSeq ORF:** 1224 bp

**Locus ID:** 21336

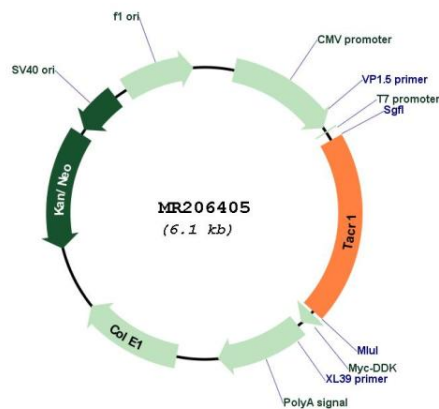
**UniProt ID:** [P30548](#)

**Cytogenetics:** 6 C3

**MW:** 46.8 kDa

**Gene Summary:** This gene encodes the receptor for the tachykinin, substance P, also referred to as neurokinin 1. This gene belongs to a gene family of tachykinin receptors which are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This receptor has been associated with nitric oxide formation, and it has been localized to cholinergic and nitrenergic neurons as well as on smooth muscle cells. [provided by RefSeq, Mar 2010]

## Product images:



Circular map for MR206405