

Product datasheet for MR215833

Tacr2 (NM_009314) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tacr2 (NM_009314) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tacr2
Synonyms:	Nk2r; Skr; Tac2r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215833 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCCACGCCAGCGTTACCGACACCAACATCTTGTCTGGCCTTGAGAGTAACGCAACAGGCGTTA
CAGCCTTCTCTATGCCTGGCTGGCAGCTGGCGCTATGGGCCACAGCCTACCTGGCCCTGGTGTGGTGGC
TGTAACAGGCAACGCCACAGTCATCTGGATCATTCTGGCCATGAGAGAATGCGCACGGTCACCAACTAT
TTCATCATCAACCTGGCCTTGGCAGACCTCTGCATGGCGGCTTCAATGCCACCTTCAACTTCATCTATG
CCAGTCACAACATCTGGTACTTCGGCAGCACCTTCTGCTACTTCCAGAACCTCTTTCCTGTCACAGCCAT
GTTTCGTCAGCATCTACTCCATGACCGCCATCGCCGCTGACAGGTACATGGCCATTGTCCACCCTTTCCAG
CCACGGCTCTCCGCCCCAGCACCAAGGCGGTTATTGCTGTCATCTGGCTGGTAGCCCTGGCTCTCGCCT
CCCCACAATGTTTCTACTCCACCATCACTGTGGACCAGGGGGCCACCAAGTGTGTGGTGGCCTGGCCAA
TGACAACGGAGGCAAGATGCTCCTACTGTATCATCTGGTGGTGTGTCCTCATCTACTTCTGCCTCTA
GTGGTGATGTTTGCAGCTTACAGTGTATTGGCCTCACACTGTGGAACGCGCCGTACCCAGACACCAGG
CTCATGGAGCTAACCTGCGCCATCTACAGGCCAAGAAGAAGTTTGTGAAGGCCATGGTACTGGTGGTGGT
GACATTTGCCATCTGCTGGCTGCCCTACCACCTTACTTCATCTGGGGACCTTCCAAGAGGACATCTAC
TACCGCAAGTTTATCCAGCAGGTCTACCTGGCACTCTTCTGGCTGGCCATGAGCTCCACCATGTACAACC
CCATCATTATTGCTGCCTTAACCACAGGTTTCGCTCTGGATTCCGGCTTGCTTTCCGGTGTGCCCTG
GGGGACACCAACCGAGGAAGACAGGCTGGAGCTGACCCCACTCCGTCCTCTCCAGGAGAGTCAACCGG
TGTACACCAAGGAGACTTTGTTTCATGACAGGGGATATGACCCACTCTGAGGCTACCAATGGGCAGGTTG
GGGGCCCCAGGATGGGGAGCCTGCTGGACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215833 protein sequence
Red=Cloning site Green=Tags(s)

MGAHASVTDTNILSGLESNATGVTAFSMPGWQLALWATAYLALVLVAVTGNATVIWIILAHERMRTVTNY
 FIINLALADLCMAAFNATFNFIYASHNIWYFGSTFCYFQNLFPVTAMFVSIYSMTAIAADRYMAIVHPFQ
 PRLSAPSTKAVIAVIWLVALALASPQCFYSTITVDQGATKCVVAVPNDNGGKMLLLYHLVVFVLIYFLPL
 VVMFAAYSIVIGLTLWKRAVPRHQAHGANLRHLQAKKKFVKAMVLVVVTFaicwLPYHLYILGTFQEDIY
 YRKFIQQVYLALFWLAMSSTMYNP I IYCLNHRFRSGFRLAFRCCPWGTPTEEDRLELTHTPSISRVRNR
 CHTKETLFMTGDMTHSEATNGQVGGPQDGEPAGP

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_009314

ORF Size: 1155 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_009314.4](#), [NP_033340.3](#)

RefSeq Size: 2258 bp

RefSeq ORF: 1155 bp

Locus ID: 21337

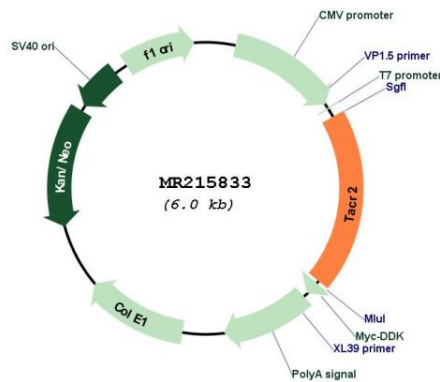
UniProt ID: [P30549](#)

Cytogenetics: 10 B4

MW: 43.1 kDa

Gene Summary: This is a receptor for the tachykinin neuropeptide substance K (neurokinin A). It is associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: substance K > neuromedin-K > substance P.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215833