

Product datasheet for MR219685

Rasd2 (NM_029182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasd2 (NM_029182) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasd2
Synonyms:	4930526B11Rik; AU045414; Rhes; TEM-2; TEM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219685 representing NM_029182 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAAGACCTTGCCAGTGGGAAGTGCACACTCAATGTGCCTGCTAAGAAGTCTACCGCATGGTGG
TGCTGGGTGCCTCCGAGTGGGCAAGAGCTCCATTGTCTCCCGCTTCTCAATGGCCGCTTTGAGGACCA
GTACACGCCCACTATCGAGGACTTTCATCGCAAGGTGTACAACATCCACGGGGACATGTACCAGCTGGAT
ATCCTGGACACCTCTGGCAACCACCCATTCCTGCCATGCGCCGGCTCTCCATCCTCACAGGAGATGTCT
TCATCCTGGTGTTCAGCCTGGATAGCCGGGAGTCTTTGATGAGGTCAAGCGCCTCCAGAAACAGATCCT
GGAGGTCAAGTCTGCCTGAAGAATAAAACCAAGGAGGCAGCAGAGCTGCCCATGGTGATCTGTGGGAAC
AAGAATGACCACAGTGAGCTGTGCCGCCAGTCCCTGCCATGGAGGCTGAGCTGTGGTGTCTGGTGATG
AAAAGTGCCTACTTCGAGGTGTGAGCAAGAAGAACAATAATGTGAATGAGATGTTCTATGTGCTGTT
CAGCATGGCCAAGCTGCCCATGAGATGAGCCCTGCACTGCACCAATAAGATCTCCGTGCAGTACGGCGAT
GCTTTTACCCCCGGCCCTTCTGCATGCGTGCCTAAGGTGCGAGGTGCCTATGGCATGGTCTCACCCCT
TTGCCCGACGCCCAAGTGTCAACAGTGACCTCAAGTACATCAAGGCCAAGGTCTACGGGAGGGCCAGGC
CCGAGAGAGGGACAAGTGTAGCATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR219685 representing NM_029182
Red=Cloning site Green=Tags(s)

MMKTLSSGNCTLNVPKNSYRMVVLGASRVGKSSIVSRFLNGRFEDQYPTPTIEDFHRKVVNIHGDMYQLD
 ILDTSGNHPPFAMRRLSILTGDFILVFLSDSRESFDEVKRLQKQILEVK SCLKNKTKEAAELPMVICGN
 KNDHSELCRQVPAMEALLVSGDENCA YFEVS AKKNTNVNEMFYVLF SMAKLPHEMSPALHHKISVQYGD
 AFHPRPFCMRRTKVAGAYGMVSPFARRPSVNSDLKYIKAKV LREGQARERDKCSIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1153_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029182

ORF Size: 798 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_029182.1](#), [NP_083458.1](#)

RefSeq Size: 2810 bp

RefSeq ORF: 801 bp

Locus ID: 75141

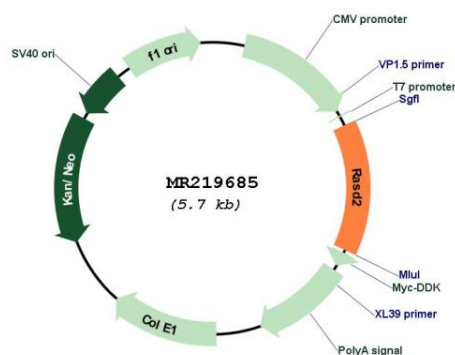
UniProt ID: [P63032](#)

Cytogenetics: 8 C1

MW: 30.6 kDa

Gene Summary: GTPase signaling protein that binds to and hydrolyzes GTP. Regulates signaling pathways involving G-proteins-coupled receptor and heterotrimeric proteins such as GNB1, GNB2 and GNB3. May be involved in selected striatal competencies, mainly locomotor activity and motor coordination.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219685