

Product datasheet for **MR216859**

Rsg1 (NM_001081174) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rsg1 (NM_001081174) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rsg1
Synonyms: 6330545A04Rik; Gm723
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216859 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGACCTCCCATGCACGGTTCGGTGATTGTCCCAGACTGGCATGAGACGGTCGAGGGTAAGGAGT
ACTTAGCCTGCATCCTGCGCAAGAATCGCCGGCGGGAGTTGGGTTGCTGAACGCCCGGTGCTGCCCC
TTCCGTGGTCATTGATACCGCCAGCTATAAGATCTTTGTGTCCGGGAAGAGTGGTGTGGCAAGACAGCA
CTGGTGGCAAAGCTGGCCGGCTGGAAGTGCCTATAGTACACCATGAGACCACTGGCATTACAGCCACTG
TGGTGTGGTGGCCAGCCAAGCTGAAGGCCAGCGACTGTGTGTGCATGTTCCGTTTGAATTCTGGGACTG
TGGGGAGTCTGCCCTCAAGAAGTTTGATCACATGCTGCCGGCTTGTAAAGAGAATGCAGATGCCCTTCCTC
TTCTCTTTTCTTTCACCGATCGTGCCTCCTTCGAAGACCTTCTGGACAGTTGACTCGTGTAGCCGGTG
AAGCTCCTGGGCTCGTCAAGATAGTTATCGGGTCCAAGTTTGATCAGTACATGCACACAGATGTGCCAGC
GCGAGACCTCACAGCCTTCCGGCAGGCCTGGGAAGTGCCTTGTCCGGGTGAAGAGTGTGCCAGGGCGG
CGGCTGGCAGACGGACGAACACTGGATGGCAGGGCTGGGTAGCTGACACAGCCCATGTGCTCAATGGCC
TTGCAGAACAGTTGTGGCACCAGGACCAGGTGGCAGCCGGCTGCTCCCCAGTCCCCAGAGAGTGCTCC
CGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216859 protein sequence
 Red=Cloning site Green=Tags(s)

MARPPMHGVSIVPDWHETVEGKEYLACILRKNRRREFGLLERPVLPPSVVIDTASYKIFVSGKSGVGKTA
 LVAKLAGLEVPIVHHETTGIQTTVVFWPAKLKASDCVVMFRFEFWDGKESALKKFDHMLPACKENADAF
 FLFSFTDRASFEDLPGQLTRVAGEAPGLVKIVIGSKFDQYMHTDVPARDLTAFRQAWELPLFRVKSVPGR
 RLADGRITLDGRAGLADTAHVLNGLAEQLWHQDQVAAGLLPSSPESAPG

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_001081174

ORF Size: 777 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_001081174.2](#), [NP_001074643.1](#)

RefSeq Size: 951 bp

RefSeq ORF: 777 bp

Locus ID: 76166

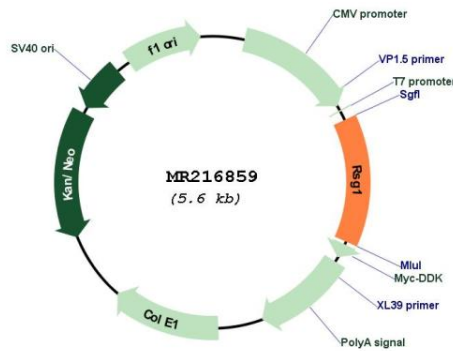
UniProt ID: [A2A825](#)

Cytogenetics: 4 D3

MW: 28.4 kDa

Gene Summary: Potential effector of the planar cell polarity signaling pathway. Plays a role in targeted membrane trafficking most probably at the level of vesicle fusion with membranes. Involved in cilium biogenesis by regulating the transport of cargo proteins to the basal body and to the apical tips of cilia. More generally involved in exocytosis in secretory cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216859