

Product datasheet for **MR216275**

Rasal3 (NM_178785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasal3 (NM_178785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasal3
Synonyms:	A430107D22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216275 representing NM_178785 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGCCAGAATGTGGGCAGACAATGTTGAGAACCTTTTGGTCTCGCAGCAGAGACTCCTCGCCATGG
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TCTCTGACCCCCCTAAGGAGTACGGTCCAATCGCCTCCGGTTTCCAAGACCCTGTGGGAAGGCACAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216275 representing NM_178785

Red=Cloning site Green=Tags(s)

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MKPECGQTMFRTFWSRSDSSAMPPLQSEEDSQTPSLPSPLTSYRWHTGGSGEKAAGGFRWGRFAGWG
RALSHQPEMVNSQPAPRSLFRRVL SAPPKESRSNRLRFSKTLWGRHKNVAPLEPKPNPKAPEPELELVAD
PDLPAVAQIPEPPTDMPVWNIDGFTLLEGLKVMLGEEGPRQIRVGSASSENSMQAALGNLKDAVRTPGK
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GVRAELWLDGALLARTAPRAGPQLFWAERFHFEALPPARRLSLRLRSAGPAGATVGRVVLELDEVSI PR
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LRTQSVPARRPTHRRPSAGSKPRPKGSLRMGPAPCGRAWTRASASLPRKPSVPWQRQMDQPGDRYQTTGT
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9099_h03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_178785

ORF Size: 3123 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178785.4](#)

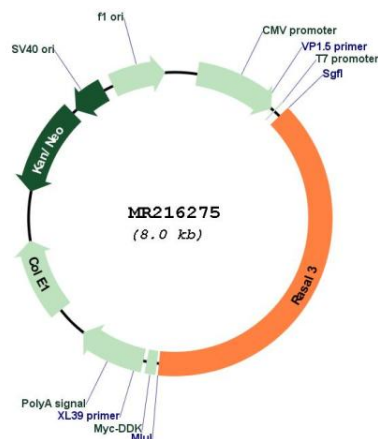
RefSeq Size: 3677 bp

RefSeq ORF: 3126 bp

Locus ID: 320484
 UniProt ID: [Q8C2K5](#)
 Cytogenetics: 17 B1
 MW: 114.8 kDa

Gene Summary: Functions as a Ras GTPase-activating protein. Plays an important role in the expansion and functions of natural killer T (NKT) cells in the liver by negatively regulating RAS activity and the down-stream ERK signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216275