

## Product datasheet for **MR220969**

### Ralgds (NM\_001145835) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgds (NM_001145835) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ralgds
Synonyms:	Gnds; mKIAA1308; Rgds
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR220969 representing NM\_001145835  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCAGCGCATGTGGGCTGAGGCGGCCGGGCCATAGGGGGCACCGAGCCGTTGTTCCCGGTTCCC  
 GCGCAGCCGACGCGTGTGGGACGCCGTGCGCCTGGAGGTGGCGTCCCCGACAGCTGCCAGTGGTGCT  
 GCACAGCTTACGCAGCTCGACCCTGATCTGCCGCGCCTGGAGAGCTCCACGCAGGAGATTGGGGAGGAG  
 CTGATCAACGGGGTCACTACTCCATCTCCCTGCGCAAGGTCCAGCTACACCAAGGAGCCACTAAGGGCC  
 AGCGCTGGCTAGGGTGTGAGAACGAGTCGGCTCTGAACCTCTATGAGACCTGCAAGGTGCGCACGGTGAA  
 GGCTGGTACTCTGGAGAAGCTGGTGAACACCTGGTGCCTGCCTCCAGGGCAGTGACCTTTCCTACGTC  
 ACTGTCTTCTGTGCACCTACAGAGCCTTCACTACCACCAGCAGGTGCTAGACCTGCTGTTCAAAGGT  
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 GCTCAGATCTGGAGCGCCGCGCTCACCTTCTCCTGGCCAGCTGGAGGACCTGGAGCCCAGTGAGGCTGA  
 GTCTGAGGCCCTGTCCCCAGCTCCAGTGTCTCTGAAGCCAGCTTACAGCTAGAACCTGCAGTGTCTG  
 CTGACGCCAGCAAGTGGTGACATCAACTCCAGTACGAGAGCCCGCTGCGGCCAGTCCAGTGTCTGG  
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 AAGAAGACGTGGGAAGAGGTCTCCAGGGACAGCTTTCGAGTGTCCAGAAACTGTCGGAGATCTTCTCTG  
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 AGCCAGCTCCACCCTCCCTCGTATGAAGCAGAAGGACTCAGGATTGCCAAAGGCATCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220969 representing NM\_001145835  
 Red=Cloning site Green=Tags(s)

MVQRMWAEAAPIGGTEPLFPGSRRSRSVWDAVRLEVGVPDSCPVVLSHFTQLDPDLPRLESSTQEIGEE  
 LINGVIYSISLRKVQLHQGATKGQRWLGECENESALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYV  
 TVFLCTYRAFTTTQVLDLLFKRYGRCDALTASSRYGCILPYSSDGGPQDQLKNAISSILGTWLDQYSE  
 DFCQPPDFPCKQLVAYVQLNMPGSDLERRAHLLEALEDLEPSEAESEALSPAPVLSLKPASQLEPALL  
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 PTPALEPSWSLPEATENGLTEKPHLLLFPDVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKGEHLA  
 PTIRATVAQFNNVANCVITTC LGDQSMKAPDRARVVEHWIEVARECRALKNFSSLYAILSALQSNAIHRL  
 KKTWEEVSRDSFRVFKLSEIFSDENNYSLRELLIKEGTSKFATLEMNPRRAQRQKETGVIQGTVPYL  
 GTFLTDLVMLDTAMKDYLGRINFEKRRKEFEVIAQIKLLQSACNNYSIAPEEHFGTWRAMERLSEAE  
 SYTLSCELEPPSESANTLRSKKSTAIVKRWSRQAPSTELSTSSSAHSKSCDQLRCSPYLGSGDITDAL  
 SVHSAGSSSDVEEINMSFVPESPDGQEKKFWEASQSSPETSGISSASSSTSSSASTPVTTRTHKR  
 SVSGVCSYSSSLPLYNQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPTIRKAMDKHNLDEDEPEDYE  
 LVQIISEDHKLKIPENANVFYAMNSTANYDFILKKRTFTKGAKVKHGASSTLPRMKQKGLRIAKGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

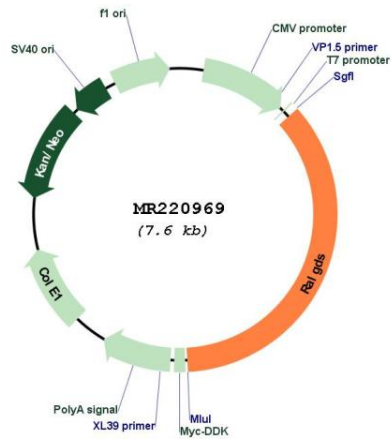
Cloning Scheme:



ACCN: NM\_001145835

<b>ORF Size:</b>	2721 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001145835.1</a> , <a href="#">NP_001139307.1</a>
<b>RefSeq Size:</b>	3653 bp
<b>RefSeq ORF:</b>	2724 bp
<b>Locus ID:</b>	19730
<b>Cytogenetics:</b>	2 A3
<b>MW:</b>	100.7 kDa
<b>Gene Summary:</b>	Stimulates the dissociation of GDP from the Ras-related Ra1A and Ra1B GTPases which allows GTP binding and activation of the GTPases. Interacts and acts as an effector molecule for R-Ras, H-Ras, K-Ras, and Rap.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220969