

## Product datasheet for **MR221064**

### Ralgds (NM\_001145836) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgds (NM_001145836) 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:

>MR221064 representing NM\_001145836  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGCAGCGCATGTGGGCTGAGGCGGCCGGCCATAGGGGGCACCGAGCCGTTGTTCCCGGTTCCC  
 GCGCAGCCGACGCGTGTGGACGCCGTGCGCCTGGAGGTGGCGTCCCCGACAGCTGCCAGTGGTGCT  
 GCACAGCTTACGCAGCTCGACCCTGATCTGCCGCGCCTGGAGAGCTCCACGCAGGAGATTGGGGAGGAG  
 CTGATCAACGGGGTCACTACTCCATCTCCCTGCGCAAGGTCCAGCTACACCAAGGAGCCACTAAGGGCC  
 AGCGCTGGCTAGGGTGTGAGAACGAGTCGGCTCTGAACCTCTATGAGACCTGCAAGGTGCGCACGGTGAA  
 GGCTGGTACTCTGGAGAAGCTGGTGAACACCTGGTGCCTGCCTCCAGGGCAGTGACCTTTCCTACGTC  
 ACTGTCTTCTGTGCACCTACAGAGCCTTCACTACCACCCAGCAGGTGCTAGACCTGCTGTTCAAAAGAT  
 ATGGCTGCATCTCCCTACTCCAGTGAGGACGGCGGACCGCAGGACCAACTCAAAAATGCCATCTCCTC  
 CATCTGGGCACCTGGCTGGACCAATACTCAGAGGATTTCTGTCAACCTCCGGACTTTCCTGCCTCAAG  
 CAGCTGGTGGCTTATGTACAGCTCAACATGCCTGGCTCAGATCTGGAGCGCCGCGCTCACCTTCTCCTGG  
 CCCAGCTGGAGGACCTGGAGCCAGTGAGGCTGAGTCTGAGGCCCTGTCCCCAGCTCCAGTGCTGTCTCT  
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 GAAGCCACGGAGAATGGACTAACCGAGAAGCCTCACCTTCTGCTGTTCCCTCCTGACTTGGTGGTGAAC  
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 CTCTGCTCTACAGAGCAATGCCATCCACCAGCTAAAGAAGACGTGGGAAGAGGTCTCCAGGGACAGCTTT  
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 GAGTCGGCCAGCAACACCCTGAGGAGCAAGAAAAGCACAGCCATTGTCAAGCGCTGGAGCGACCGCCAGG  
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 CCCAGTCTGTCAGAGACCTCTGGCATCAGCTCCGCTCCAGCAGCACCTCCTTCTGTCAGCCTCCAC  
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 ACTCAGGATTGCCAAAGGCATCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221064 representing NM\_001145836  
 Red=Cloning site Green=Tags(s)

MVQRMWAEAAGPIGGTEPLFPGSRRSRSVWDAVRLEVGVPDSCPVVLSHFTQLDPDLPRLESSTQEIGEE  
 LINGVIYSISLRKVQLHQGATKGQRWLGCEENASALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYV  
 TVFLCTYRAFTTTQVLDLLFKRYGCILPYSSDGGPQDQLKNAISSILGTWLDQYSEDFCQPPDFPCLK  
 QLVAYVQLNMPGSDLERRAHLLEAQLLEDLEPSEAESEALSPAPVLSLKPASQLEPALLTPSQVVTSTPV  
 REPAAAPVPVLASSPVVAPAPELEPVPEPPQEPEPSLALAPELEPAVSQSLELESAPVPTPALEPSWSLP  
 EATENGLTEKPHLLLFPDDLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKKGKEHLAPTIRATVAQFNN  
 VANCVITTCGLDQSMKAPDRARVVEHWIEVARECRALKNFSSLYAILSALQSNAIHRLKKTWEEVSRDSF  
 RVFQKLEIFSDENNYLSRELLIKEGTSKFATLEMNPRRAQRQKETGVIQGTVPYLGTFITDLVMLDT  
 AMKDYLGRLEINFEKRRKEFEVIAQIKLLQSACNNYSIAPEEHFGTWFRAMERLSEAESYLSCELEPPS  
 ESASNTLRSKKSTAIVKRWSRQAPSTELSTSSSAHSKSCDQLRCSPYLGSGDITDALSVHSAGSSSDV  
 EEINMSFVPEPDGQEKKFWESASQSSPETSIGISSASSSTSSSSASTTPVSTTRTHKRSVSGVCSYSSSL  
 PLYNQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPTVIKAMDKHNLEDEPEDYELVQIISEDHKLK  
 IPENANVFYAMNSTANYDFILKRTFTKGAKVKHGASSTLPRMKQKGLRIAKGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

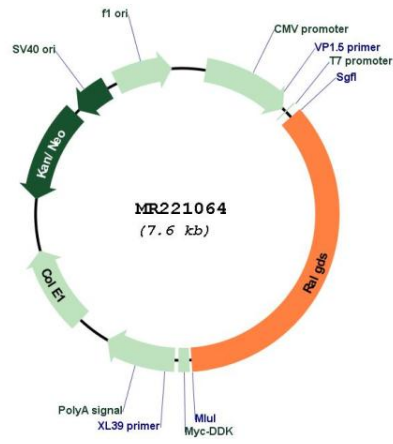
Cloning Scheme:



ACCN: NM\_001145836

<b>ORF Size:</b>	2685 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_001145836.1</a> , <a href="#">NP_001139308.1</a>
<b>RefSeq Size:</b>	3617 bp
<b>RefSeq ORF:</b>	2688 bp
<b>Locus ID:</b>	19730
<b>Cytogenetics:</b>	2 A3
<b>MW:</b>	99.4 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 MR221064