

Product datasheet for **MG221064**

Ralgds (NM_001145836) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgds (NM_001145836) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ralgds
Synonyms:	Gnds; mKIAA1308; Rgds
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG221064 representing NM_001145836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCAGCGCATGTGGGCTGAGGCGGCCGGGCCATAGGGGGCACCGAGCCGTTGTTCCCGGTTCCC
 GGCAGCGCCGACGCGTGTGGACGCCGTGCGCCTGGAGGTGGCGTCCCCGACAGCTGCCAGTGGTGCT
 GCACAGCTTACGCAGCTCGACCCTGATCTGCCGCGCCTGGAGAGCTCCACGCAGGAGATTGGGGAGGAG
 CTGATCAACGGGGTCACTACTCCATCTCCCTGCGCAAGGTCCAGCTACACCAAGGAGCCACTAAGGGCC
 AGCGCTGGCTAGGGTGTGAGAACGAGTCGGCTCTGAACCTCTATGAGACCTGCAAGGTGCGCACGGTGAA
 GGCTGGTACTCTGGAGAAGCTGGTGAACACCTGGTGCCTGCCTCCAGGGCAGTGACCTTTCTACGTC
 ACTGTCTTCTGTGCACCTACAGAGCCTTCACTACCACCAGCAGGTGCTAGACCTGCTGTTCAAAAGAT
 ATGGCTGCATCTCCCTACTCCAGTGAGGACGGCGGACCGCAGGACCAACTCAAAAATGCCATCTCCTC
 CATCTGGGCACCTGGCTGGACCAATACTCAGAGGATTTCTGTCAACCTCCGGACTTTCCCTGCCTCAAG
 CAGCTGGTGGCTTATGTACAGCTCAACATGCCTGGCTCAGATCTGGAGCGCCGCGCTCACCTTCTCCTGG
 CCCAGCTGGAGGACCTGGAGCCAGTGAGGCTGAGTCTGAGGCCCTGTCCCCAGCTCCAGTGCTGTCTCT
 GAAGCCAGCTTACAGCTAGAACCTGCACTGCTGCTGACGCCAGCCAAGTGGTGACATCAACTCCAGTA
 CGAGAGCCCGCTGCGGCCCCAGTGCCAGTGCTGGCCTCCAGCCAGTGGTGGCACCAGCTCCTGAGCTAG
 AACCAGTTCAGAGCCACCTCAAGAGCCTGAGCCATCCCTAGCACTGGCTCCAGAGCTGGAGCCCGCGT
 CTCACAGAGCCTGGAACGGAGTCAGCTCCTGTGCCACTCCTGCCTTAGAGCCTTCTGGTCTCTGCCT
 GAAGCCACGGAGAATGGACTAACCGAGAAGCCTCACCTTCTGCTGTTCCCTCCTGACTGGTGGTGAAC
 AGTTTACTCTGATGGATGCAGAATACTCAAGAAAGTCGTGCCCTACCCTGCTGGGACCTCATCTGGTC
 CCAACGGGACAAGAAGGGCAAGGAGCACCTCGCGCCTACCATCCGCGCCACTGTGCGCCAGTTCAACAAC
 GTGGCCAACTGTGTACTACTACCTGCCTTGGGACCAGAGTATGAAGGCTCCGGACAGGGCCCGGGTGG
 TGGAACTGGATCGAGGTGGCCAGGGAGTGACAGCGCTCAAGAATTTCTCCTCCTCTACGCCATCCT
 CTCTGCTTACAGAGCAATGCCATCCACCAGCCTAAAGAAGACGTGGGAAGAGGTCTCCAGGGACAGCTTT
 CGAGTGTCCAGAACTGTGGAGATCTTCTGTGATGAGAACAATACTCCCTGAGCAGAGAGCTGCTCA
 TCAAGGAAGAACCTCAAGTTTCCACACTGGAGATGAACCCTAGGAGAGCCAGAGCCGCGCAGAAGGA
 GACAGGAGTCATCCAGGGCACCGTTCCCTACCTGGGCACATTCTCACTGACCTGGTGTGCTGGACACT
 GCCATGAAGGACTATCTCTATGGGAGACTGATCAACTTTGAAAAGAGAAGGAAGGAGTTCGAAGTCATTG
 CCCAGATCAAGTTGCTACAGTCAGCCTGCAACAATACTACAGCATTGCTCCGGAAGAACAATTTGGAACATG
 GTTCCGAGCTATGGAGCGACTCAGTGAGGCTGAGAGCTACACCCTGTCTGTGAGCTGGAGCCCGGCTCT
 GAGTCGGCCAGCAACACCCTGAGGAGCAAGAAAAGCACAGCCATTGTCAAGCGCTGGAGCGACCGCCAGG
 CTCCCAGCACGGAGCTCAGCACCAGTAGCAGTGCCCACTCCAAGTCTGTGACCAGCTTCGGTGCAGCCC
 TTACCTCGGCAGCGGGGACATCACCGACGCGCTCAGTGTGCACTCAGCTGGCTCTTCCAGCTCTGATGTG
 GAGGAGATCAACATGAGCTTTCGTCAGAGTCTCCTGATGGCCAGGAAAAGAAGTTCTGGGAGTCAGCCT
 CCCAGTCTGTCAGAGACCTCTGGCATCAGCTCCGCTCCAGCAGCACCTCCTTTCGTCAGCCTCCAC
 CACGCCCGTGTCTACCACGCGCACCCACAAGCGCTCCGCTCAGGGGTCTGCAGCTACAGCTCCTCACTG
 CCTTCTACAACCAGCAGGTGGGCGACTGCTGCATCATCAGGGTACAGCCTGGATGTGGACAACGGCAACA
 TGTACAAGAGCATCCTGGTGACCAGCCAGGATAAGGCTCCGACTGTATCCGAAAAGCCATGGACAACA
 CAACCTAGATGAGGACGAGCCGGAGGATTATGAGCTGGTGCAGATCATCTCAGAGGATCACAAGCTGAAG
 ATTCCAGAAAACGCCAATGTGTTCTATGCCATGAACTCTACCGCCAATACTGACTTCATCTAAAGAAGC
 GGACCTTCACTAAGGGGGCTAAAGTCAAGCATGGAGCCAGCTCCACCCTCCTCGTATGAAGCAGAAGGG
 ACTCAGGATTGCCAAAGGCATCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221064 representing NM_001145836
 Red=Cloning site Green=Tags(s)

MVQRMWAEAAPIGGTEPLFPGSRRSRSVWDAVRLEVGVPDSCPVVLSHFTQLDPDLPRLESSTQEIGEE
 LINGVIYSISLRKVQLHQGATKGQRWLGCEENASALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYV
 TVFLCTYRAFTTTQVLDLLFKRYGCILPYSEDDGGPQDQLKNAISSILGTWLDQYSEDFCQPPDFPCLK
 QLVAYVQLNMPGSDLERRAHLALLAQLEDLEPSEAESEALSPAPVLSLKPASQLEPALLLTPSQVVTSTPV
 REPAAAPVPVLAASPVVAPAPELEPVPEPPQEPEPSLALAPELEPAVSQSLELESAPVPTPALEPSWSLP
 EATENGLTEKPHLLLFPDDLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKKEHLAPTIRATVAQFNN
 VANCVITTCGLGDQSMKAPDRARVVEHWIEVARECRALKNFSSLYAILSALQSNAIHRLLKKTWEEVSRDSF
 RVFQKLEIFSDENNYLSRELLIKEGTSKFATLEMNPRRAQRQKETGVIQGTVPYLGTFITDLVMLDT
 AMKDYLGRLLINFEKRRKEFEVIAQIKLLQSACNNYSIAPEEHFGTWFRAMERLSEAESYLSCELEPPS
 ESASNTLRSKKSTAIVKRWSRQAPSTELSTSSSAHSKSCDQLRCSPYLGSGDITDALSVHSAGSSSDV
 EEINMSFVPEPDGQEKKFWEASQSSPETSIGISSASSSTSSSSASTTPVSTTRTHKRSVSGVCSYSSSL
 PLYNQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPTIVIRKAMDKHNLEDEPEDYELVQIISEDHKLK
 IPENANVFYAMNSTANYDFILKRTFTKGAKVKHGASSTLPRMKQKGLRIAKGIF

TRTRPLE - GFP Tag - V

Restriction Sites:

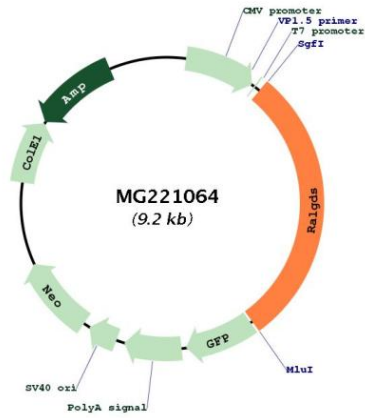
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001145836
ORF Size:	2685 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:	<ol style="list-style-type: none">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_001145836.1 , NP_001139308.1
RefSeq Size:	3617 bp
RefSeq ORF:	2688 bp
Locus ID:	19730
Cytogenetics:	2 A3
Gene Summary:	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 MG221064