

Product datasheet for **MR220967**

Ralgds (NM_001145834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgds (NM_001145834) 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:

>MR220967 representing NM_001145834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGTAGATTGCCAGAGCTCCACGCAGGAGATTGGGGAGGAGCTGATCAACGGGGTCATCTACTCCA
 TCTCCCTGCGCAAGGTCCAGCTACACCAAGGAGCCACTAAGGGCCAGCGCTGGCTAGGGTGTGAGAACGA
 GTCGGCTCTGAACCTCTATGAGACCTGCAAGGTGCGCACGGTGAAGGCTGGTACTCTGGAGAAGCTGGTG
 GAACACCTGGTGCCTGCCTTCCAGGGCAGTGACCTTTCCTACGTCAGTGTCTTCTGTGCACCTACAGAG
 CCTTCACTACCACCCAGCAGGTGCTAGACCTGCTGTTCAAAGATATGGCTGCATCCTCCCTACTCCAG
 TGAGGACGGCGGACCGCAGGACCAACTCAAAAATGCCATCTCCTCCATCCTGGGCACCTGGCTGGACCAA
 TACTCAGAGGATTTCTGTCAACCTCCGGACTTTCCTGCCTCAAGCAGCTGGTGGCTTATGTACAGCTCA
 ACATGCCTGGCTCAGATCTGGAGCGCCGCGCTCACCTTCTCCTGGCCAGCTGGAGGACCTGGAGCCAG
 TGAGGCTGAGTCTGAGGCCCTGTCCCAGCTCCAGTGCTGTCTCTGAAGCCAGCTTCACAGCTAGAACCT
 GCACTGCTGCTGACGCCAGCCAAGTGGTGACATCAACTCCAGTACGAGAGCCCGCTGCGGCCCCAGTGC
 CAGTGTGGCCTCCAGCCAGTGGTGGCACCAGCTCCTGAGCTAGAACCAGTTCAGAGCCACCTCAAGA
 GCCTGAGCCATCCCTAGCACTGGCTCCAGAGCTGGAGCCCGCCGTCTCACAGAGCCTGGAAGTGGAGTCA
 GCTCCTGTGCCACTCCTGCCTTAGAGCCTTCTGGTCTCTGCCTGAAGCCACGGAGAATGGACTAACCG
 AGAAGCCTCACCTTCTGTGTTCCCTCCTGACTTGGTGGCTGAACAGTTTACTCTGATGGATGCAGAACT
 ATTCAAGAAAGTCGTGCCCTACCACTGCCTGGGCTCCATCTGGTCCCAACGGGACAAGAAGGGCAAGGAG
 CACCTCGCGCCTACCATCCGCGCCACTGTCGCCAGTTCAACAACGTGGCCAACGTGTCTACTACTACCT
 GCCTTGGGGACCAGAGTATGAAGGCTCCGGACAGGGCCCGGGTGGTGAACACTGGATGGCCAG
 GGAGTGCAGAGCGCTCAAGAATTTCTCCTCCCTACGCCATCCTCTCTGCTCTACAGAGCAATGCCATC
 CACCGCCTAAAGAAGACGTGGGAAGAGGCTCCAGGGACAGCTTTCGAGTGTTCCAGAACTGTCCGAGA
 TCTTCTCTGATGAGAACAATACTCCCTGAGCAGAGAGCTGCTCATCAAGGAAGGAACCTCCAAGTTTGC
 CACACTGGAGATGAACCTAGGAGAGCCAGAGCGGCGAGAAGGAGACAGGAGTCAAGGACCGCCTT
 CCCTACCTGGGCACATTCTCACTGACCTGGTGTGCTGGACACTGCCATGAAGGACTATCTCTATGGGA
 GACTGATCAACTTTGAAAAGAGAAGGAAGGAGTTCGAAGTCATTGCCAGATCAAGTTGCTACAGTCAGC
 CTGCAACAACACAGCATTGCTCCGGAAGAACAATTTGGAACATGGTTCGAGCTATGGAGCGACTCAGT
 GAGGCTGAGAGCTACACCCTGTCTGTGAGCTGGAGCCCCGTCTGAGTCGGCCAGCAACACCCTGAGGA
 GCAAGAAAAGCACAGCCATTGTCAAGCGCTGGAGCGACCGCCAGGCTCCCAGCACGGAGCTCAGCACCCAG
 TAGCAGTGCCCACTCCAAGTCTGTGACCAGCTTCGGTGCAGCCCTTACCTCGGCAGCGGGGACATCACC
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 CAGAGTCTCCTGATGGCCAGGAAAAGAAGTTCTGGGAGTCAGCCTCCCAGTCTGTCGCCAGAGACCTTGG
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 CCAGGATAAGGCTCCGACTGTCAATCCGAAAAGCCATGGACAACACAACCTAGATGAGGACGAGCCGGAG
 GATTATGAGCTGGTGCAGATCATCTCAGAGGATACAAGCTGAAGATTCCAGAAAACGCCAATGTGTTCT
 ATGCCATGAACCTACCCCAACTATGACTTATCCTAAAGAAGCGGACCTTCACTAAGGGGGCTAAAGT
 CAAGCATGGAGCCAGCTCCACCCTCCTCGTATGAAGCAGAAGGGACTCAGGATTGCCAAAGGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220967 representing NM_001145834
 Red=Cloning site Green=Tags(s)

MMVDCQSSTQEIGEELINGVIYSISLRKVQLHQGATKGQRWLGCESESALNLYETCKVRTVKAGTLEKLV
 EHLVPAFQGSLSYVTVFLCTYRAFTTTQQVLDLLFKRYGCILPYSSDGGPQDQLKNAISSILGTWLDQ
 YSEDFCQPPDFPCLKQLVAYVQLNMPGSDLERRAHLALLAQLEDLEPSEAESEALSPAPVLSLKPASQLEP
 ALLLTPSQVVTSTPVREAAAPVPVLASSPVVAPAPELEPVPEPPQEPEPSLALAPELEPAVSQSLELES
 APVPTPALEPSWSLPEATENGLTEKPHLLLFPDPLVAEQFTLMDAELFKKVVPHYCLGSIWSQRDKKGGKE
 HLAPTIRATVAQFNNVANCVITTCCLGDQSMKAPDRARVVEHWIEVARECRALKNFSSLYAILSALQSNAI
 HRLKKTWEEVSRDSFRVFQKLSEIFSDENNYSLSRELLIKEGTSKFATLEMNPRRAQRRQKETGVIQGTV
 PYLGTFLTDLVMLDTAMKDYLGRINFEKRRKEFEVIAQIKLLQSACNNYSIAPEEHFGTWFRAMERLS
 EAESYTLSCLEPPSESASNTLRSKKSTAIVKRWSDRQAPSTELSTSSSAHSKSCDQLRCSPYLGSGDIT
 DALSVHSAGSSSDVVEINMSFVPESPDGQEKKFWEASQSSPETSGISSASSSTSSSSASTTPVSTTRT
 HKRSVSGVCSYSSSLPLYNQQVGDCCIIRVSLDNDNGNMYKSILVTSQDKAPTIVIRKAMDKHNLEDEPE
 DYELVQIISEDHKLKIPENANVFYAMNSTANYDFILKKRTFTKGAKVKHGASSTLPRMKQKGLRIAKGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145834

ORF Size: 2520 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_001145834.1](#), [NP_001139306.1](#)

RefSeq Size: 3741 bp

RefSeq ORF: 2523 bp

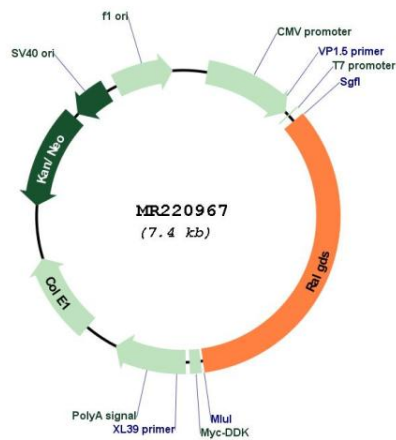
Locus ID: 19730

Cytogenetics: 2 A3

MW: 93.4 kDa

Gene Summary: Stimulates the dissociation of GDP from the Ras-related RalA and RalB 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 MR220967