

Product datasheet for **RR203249**

Ralgds (NM_019250) Rat Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ralgds (NM_019250) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ralgds |
| Synonyms: | Rgds |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide
Sequence:

>RR203249 representing NM_019250
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGCGCATGTGGGCCGAGGCGTCCGGGCCATAGGGGGCCGAGCCGTTGTTCCCGGCTCCC
 GCGCAGCCGACGCGTGTGGACGCCGTGCGTCTGGAGGTGGCGTCCCTGACAGCTGTCCAGTGGTGCT
 GCACAGCTTACGCAGCTCGACCCGATCTGCCGCGCCTGGAGAGCTCTACGCAGGAGATTGGGGAGGAG
 CTGATCAACGGGGTCACTACTCCATCTCCCTGCGCAAGGTTAGCTACACCCAGGAGCCACCAAGGGCC
 AGCGCTGGCTAGGGTGCAGAAATGAGTCAGCTCTGAACCTCTACGAGACTTGCAAGGTGCGCACGGTGAA
 GGCCGGTACTCTGGAGAAGCTGGTGAACACCTGGTGCCTGCCTCCAGGGCAGTGACCTTTCTACGTC
 ACCGTATTCCTGTGCACCTACAGAGCCTTACAACCACTCAGCAGGTGCTAGACCTGCTGTTCAAAAGAT
 ATGGCTGCATCCTCCCTACTCCAGTGAGGACGGCGGACCACAGGACCAACTCAAAAATGCCATCTCTTC
 CATCCTGGGCACCTGGCTGGACCAATACTCCGAGGACTTCTGTCAACCCCGGACTTTCCCTGCCTCAAG
 CAGCTGGTGGCTTATGTGCAGCTCAACATGCCTGGCTCAGACCTGGAGCGCCGTGCTCACCTTCTCCTGG
 CCCAGCTGGAGGACCTGGAGCCAGTGAGGTTGAGCCTGAGGCCCTGTCCCCAGCTCCAGTGCTGTCTCT
 GAAACCAGCTTACAGCTAGAACCAGCTCCCGCCTGCTTCTGACGCCAGCCGAGCTGTGGCATCCACT
 CCAGTCCGAGAGCCAGCCCCGGTGCCAGTACTGGCATCCAGCCGGTGGTGGCGCCAGCCTCTGAGCTAG
 AACCAGCTCTGGAGCCGCCCTAGACCTGAGCCAACCTCGCACCTGCTCCAGAGCTGGACCCACTGT
 CTCACAGAGCCTCACCTCGAGCCCGCTCCCGTGGCCGCTCCTGCATTAGAGCCTTCTGGCCTCTGCCT
 GAAACCACGGAGAACGGACTGTGTGCAAGCCTCACCTACTGCTGTTCCCTCCAGACTGGTGGCTGAAC
 AGTTTACGCTGATGGACGCAGAGCTATTCAAGAAAGTTGTGCCCTACCAGTGCCTGGCTCCATCTGGTC
 CCAGCGGACAAGAAGGGCAAGGAGCACCTCGCGCCACCATCCGTGCCACTGTGCGCCAGTTCAACAAC
 GTGGCCAACTGTGTCACTACCACCTGCCTTGGGACCAGAGTATGAAAGCTTCGGACAGGGCCCGGGTGG
 TGGAACTGGATCGAGGTGGCCAGGGAGTGCCAGGGTGTCAAGAATTTCTCCTCCTCTACGCCATCCT
 CTCTGCCCTACAGAGCAATGCCATCCACCCTAAAGAAGACATGGGAAGAGGTCTCCAGGGGACGCTTT
 CGAGTGTCCAGAACTGTGAGAAATCTTCTGTGATGAGAACAATACTCCTTGGAGCAGAGCTGTCTCA
 TCAAGGAAGAACCTCAAGTTTCCACGCTGGAGATGAACCTAGGAGAACCAGAGCCGCGCAGAAAGGA
 GACAGGTGTATCCAGGGCACTGTCCCCTACCTGGGCACATTCTCACTGACCTGGTGTGCTGGACACA
 GCCATGAAGGACTATCTATATGGGAGACTGATCAACTTTGAAAAGAGGAGGAAGGAGTTCGAAGTATCG
 CCCAGATCAAGTTGCTCCAGTCCGCTGCAACAACCTACAGCATTGTTCCCGAGGAGCACTTTGGAGCCTG
 GTTCCGAGCCATGGGACGGCTCAGCGAGGCTGAGAGCTACAACCTGTCGTGTGAGCTGGAGCCCCGCT
 GAGTCAGCCAGCAACACCTGAGGAGCAAGAAAAGCACAGCTATCGTCAAGCGCTGGAGCGACCCGAGG
 CTCCCAGCACGGAGCTCAGCACCAGTAGCAGTGCACACTCCAAGTCAATGTGACCAGCTCCGGTGCAGCCC
 CTACCTCAGCAGCGGGGACATCAGGACGCACTCAGTGTGCACTCAGCTGGTTTATCCAGCTCTGACGTG
 GAGGAGATCAACATGAGCTTTGTTCCAGAGTCTCCTGATGGCCAGGAAAAGAAGTTCTGGGAGTCAAGCT
 CCCAGTCTGCCCCAGAGACCTCTGGCATCAGCTCGGCCCTCAGCAGCACCTCCTCTTCTGTCAGCCTAC
 CACACCGGTGTCTACCACACGCACCCACAAGCGCTCTGTCTCAGGGTCTGCAGCTACAGCTCCTCACTG
 CCACTCTACAACCAGCAGGTGGGCGACTGCTGCATCATCAGGGTCAAGCTGGATGTGGACAACGGCAACA
 TGTACAAGAGCATCCTGGTGACCAGCCAGGATAAGGCTCCGACTGTATCCGAAAAGCCATGGACAACA
 CAACCTAGATGAGGACGAGCCGAGGACTATGAGCTGCTGAGATCATCTCAGAGGACCACAAGCTGAAA
 ATTCCAGAGAACGCCAATGTGTTCTATGCCATGAACTCTGCCCAACTATGACTTATCTTAAAGAAGC
 GGGCCTTCACTAAGGGGGCTAAGTCAAGCATGGAGCCAGCTCCACTCTCCCTCGAATGAAGCAGAAGGG
 ACTCAGGATTGCCAGAGGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203249 representing NM_019250
 Red=Cloning site Green=Tags(s)

MVQRMWAEASGPIGGAEPLFPGSRRSRSVWDAVRLEVGVPDSCPVVLSHFTQLDPDLPRLESSTQEIGEE
 LINGVIYSISLRKVQLHPGATKGQRWLGCEENASALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYV
 TVFLCTYRAFTTTQVLDLLFKRYGCILPYSSDGGPQDQLKNAISSILGTWLDQYSEDFCQPPDFPCLK
 QLVAYVQLNMPGSDLERRAHLLLAQLEDLEPSEVEPEALSPAPVLSLKPASQLEPAPALLLTPSRAVAST
 PVREPAPVPVLASSPVVAPASELEPALEPPLDPEPTLAPAPELDPTVSQSLHLEPAPVPAPALEPSWPLP
 ETTENGLCAKPHLLLFPDDLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKKGKEHLAPTIRATVAQFNN
 VANCVITTCGLGDQSMKASDRARVVEHWIEVARECRVLKNFSSLYAILSALQSNAIHRLKKTWEEVSRGSF
 RVFQKLEIFSDENNYLSRELLIKEGTSKFATLEMNPRRTQRRQKETGVIQGTVPYLGTFITDLVMLDT
 AMKDYLGRLEINFEKRRKEFEVIAQIKLLQSACNNYSIVPEEHFGAWFRAMGRLEAESYNLSCELEPPS
 ESASNTLRSKKSTAIVKRWSRQAPSTELSTSSSAHSKSCDQLRCSPYLSGGDITDALSVHSAGSSSDV
 EEINMSFVPEPDGQEKKFWEASQSSPETSIGISSASSSTSSSSASTTPVSTTRTHKRSVSGVCSYSSSL
 PLYNQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPTIVIRKAMDKHNLEDEPEDYELLQIISEDHKLK
 IPENANVFYAMNSAANYDFILKKRAFTKGAKVKHGASSTLPRMKQKGLRIARGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

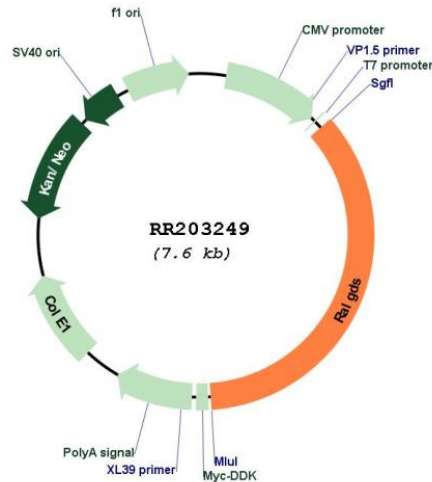
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019250

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:

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_019250.2](#), [NP_062123.2](#)

RefSeq Size: 3684 bp

RefSeq ORF: 2688 bp

Locus ID: 29622

UniProt ID: [Q03386](#)

Cytogenetics: 3p12

MW: 98.8 kDa

Gene Summary: facilitates conversion of Ras-related GTPase (Ral) to its GTP-bound form; may be involved in cardiac hypertrophy [RGD, Feb 2006]