

Product datasheet for **RC234993**

RALGDS (NM_001271774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RALGDS (NM_001271774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RALGDS
Synonyms:	RalGEF; RGDS; RGF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC234993 representing NM_001271774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCCTGTGGGGCACTCCACAGCCCTGCCACACCCCTCCTCCCCGCTCTGCTGTTCTGCTCCC
 TGCCTGTGCCCTCCACTTGCAGCCAGGACTGGGCATCCACCCGGCCAGGTTCCAGGAAGAGCTCCAC
 GCAGGAGATCGGTGAGGAGCTGATCAACGGAGTCTACTCCATCTCCCTGCGCAAGGTCAGCTGCAC
 CACGGAGGCAACAAGGGGACGCGCTGGCTCGGGTATGAGAATGAGTCGGCCCTGAACCTTTATGAGACTT
 GCAAGGTGCGGACCGTGAAGGCTGGCACGCTGGAGAAGCTGGTGGAGCACCTGGTGCCAGCCTTCCAGGG
 CAGCGACCTCTCCTACGTACCATCTTCTGTGTACCTATAGAGCCTTACCACCACCCAACAGGTCCTG
 GACCTGCTGTTCAAAGATACGGCTGCATCCTCCCCTATTCGACGAGGATGGTGGACCCAGGACCAAC
 TAAAAATGCCATCTCCTCCATCCTGGCACCTGGCTGGACCAGTACTCGGAGGATTTCTGTCAACCTCC
 GGACTTCCCTGCCTCAAGCAGCTGGTGGCCTACGTGCAGCTCAACATGCCAGGCTCAGACTGGAGCGC
 CGTGCCCACTTCTCCTGGCCAGCTGGAGCACTCGGAACCCATTGAGGCAGAGCCTGAGGCTCTGTAC
 CAGTGCCAGCTCTAAAACCAACTCCAGAGCTCGAGCTAGCTCTAACACCAGCTCGAGCACCCAGCCAGT
 GCCGGCTCCAGCCCCGGAGCCAGAGCCAGCTCCAACACCAGCTCCAGGTTAGAGCTAGAAGTAGCTCCA
 GCACCAGCTCCGGAGCTCCAGCAGGCTCCAGAGCCAGCTGTGGGACTAGAATCGGCTCCAGCGCCAGCTC
 TGGAACTAGAGCCAGCTCCAGAACAGGATCCAGCTCCCTCACAACTCTAGAGCTGGAGCCAGCTCCAGC
 ACCAGTTCCATCATTACAGCCTTCTGGCCTTACCTGTGGTTGCAGAGAACGGGCTGAGTGAGGAGAAG
 CCTCACCTTTGGTGTCCCTCCAGATCTGGTGGCAGAGCAGTTTACTGATGGATCGGAACTGTTCA
 AGAAGTGGTGGCCTACCCTACCTGGCTCCATCTGGTCCCAGCGGGACAAGAAGGGCAAGGACACCT
 GCGGCCACCATCCGCGCCACTGTCACCCAGTTCAACAGTGTGGCCAACCTGTGCATCACCACCTGCCTC
 GGAACCGAAGCACGAAAGCCCCAGACAGGCCCAGGGTGGTGGAGCACTGGATCGAGGTGCCAGGGAGT
 GCCGGATCCTCAAGAACTTCTCGTCACTGTATGCCATCCTCTCTGCCCTGCAGAGCAACTCCATCCACCG
 TCTGAAGAAGACGTGGGAAGACGTTTCCAGGGACAGTTTCCGGATCTTTCAGAAGCTGTCAGAGATCTTC
 TCAGATGAGAACAATACTATTGAGCCGGGAGCTGCTCATCAAGGAGGGCACCTCCAAGTTTGCCACCC
 TGGAGATGAACCCCAAGAGAGCCAGAAACGGCCGAAGGAGACGGGCATCATCCAGGGCACCGTTCCCTA
 CCTGGGCAGTTCCTCACCGACCTGGTGTGCTGGACTGCCATGAAGGACTATCTGTATGGCAGACTC
 ATCAACTTTGAGAAGAGGAGGAAGGAGTTCGAGGTGATCGCCAGATCAAGCTGTGCAGTCGGCCTGCA
 ACAACTACAGCATCGCGCCAGATGAGCAATTTGGGGCCTGGTTCCGGGGCGTGGAGCGGCTCAGCGAGAC
 TGAGAGCTACAACCTGTCGTGCGAGCTGGAGCCCCATCCGAGTCAGCCAGCAACACCCTCAGGACCAAG
 AAGAACACAGCCATTGTCAAGCGCTGGAGCGACCGCCAGGCCCCAGCACTGAGCTCAGTACCAGTGGCA
 GCTCCCACTCCAAGTCTGTGACCAGCTCAGGTGTGGCCCTACCTCAGCAGCGGGGACATCGCTGACGC
 GCTCAGCGTGACTCGGCCGGCTCCTCTAGCTCCGACGTGGAGGAGATCAACATCAGCTTCGTCCCGGAG
 TCTCCTGATGGCCAGGAAAAGAAGTCTGGGAATCAGCCTCACAGTCATCCCCGGAGACCTCCGGCATCA
 GCTCAGCCTCCAGCAGCACCTCGTCTCCTCAGCCTCCACCACGCCCGTGGCTGCCACACGACCCACAA
 CGGCTCTGTCTCAGGGCTCTGCAACTCCAGCTCCGCGCTGCCGCTCTACAACCAGCAGTGGGCGACTGC
 TGTATCATCCGCGTCAGCCTGGACGTGGACAATGGCAACATGTACAAGAGCATCCTGGTACCAGCCAAG
 ATAAGGCTCCGGCTGTAATCCGCAAGGCCATGGACAAACACAACCTGGAGGAGGAGGAGCCGGAGGACTA
 TGAGCTGCTGCAGATTCTCTCAGATGACCGGAAGCTGAAGATCCCTGAAAACGCCAACGTCTTCTATGCC
 ATGAACTTACCGCCAATATGACTTTGTCTCAAGAAGCGGACCTTCACCAAGGGAGTGAAGGTCAAGC
 ACGGAGCCAGCTCCACCTCCCTCGCATGAAGCAGAAAGGACTCAAGATTGCCAAGGGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234993 representing NM_001271774
 Red=Cloning site Green=Tags(s)

MCLWGHSTAPAHTLSSPPLLFCSLPCALHLQPGTGHPGQVPRKSSTQEIGEELINGVIYISLSLRKVLH
 HGGNKGQRWLYENESALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYVTIFLCTYRAFTTTQOVL
 DLLFKRYGCILPYSDGDPQDLKNAISSILGTWLDQYSEDFCQPPDFPCLKQLVAVYQLNMPGSDLER
 RAHLLLAQLEHSEPIEAEPALSPVPALKPTPELELALTPARAPSPVPAPAPEPEPAPTAPGSELEVAP
 APAPELQQAPEPAVGLSAPAPALELEPAEQDPAPSQTLELEPAPAPVPSLQPSWPSPVVAENGLSEEK
 PHLLVFPPDLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKKEHLAPTIRATVTQFNSVANCVITTC
 GNRSTKAPDRARVVEHWIEVARECRILKNFSSLYAILSALQSNISHLKKTWEDVSRDSFRIFQKLSEIF
 SDENNYSLSRELLIKEGTSKFATLEMNPKRAQKRPKETGIIQGTVPYLGFTLDTLVMLDTAMKDLYGRL
 INFEKRRKEFEVIAQIKLLQSACNNYSIAPDEQFGAWFRAVERLSETESYNLSCELEPPSESANLRTK
 KNTAIVKRWSRQAPSTELSTSGSSHKSCDQLRCGPYLSGGDIADALSVHSAGSSSSDVEEINISFVPE
 SPDGQEKKFWESASQSSPETSIGISSASSSTSSSSASTTPVAATRTHKRSVSGLCNSSALPLYNQVGD
 CIIIRVSLDVDNGNMYKSILVTSQDKAPAVIRKAMDKHNLEEEEPEDYELLQILSDDRKLKIPENANVFYA
 MNSTANYDFVLKKRTFTKGVKVKHGASSTLPRMKQKGLKIAKGIF

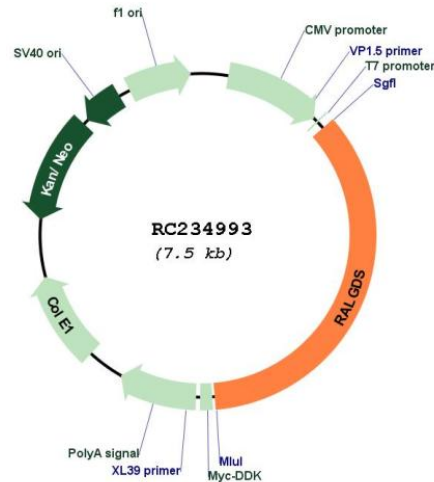
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001271774

ORF Size: 2655 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_001271774.2](#)

RefSeq Size: 3621 bp

RefSeq ORF: 2658 bp

Locus ID: 5900

UniProt ID: [Q12967](#)

Cytogenetics: 9q34.13-q34.2

Protein Pathways: Colorectal cancer, Pancreatic cancer, Pathways in cancer

MW: 97.8 kDa

Gene Summary: Guanine nucleotide dissociation stimulators (GDSs, or exchange factors), such as RALGDS, are effectors of Ras-related GTPases (see MIM 190020) that participate in signaling for a variety of cellular processes.[supplied by OMIM, Nov 2010]