

Product datasheet for **RG234993**

RALGDS (NM_001271774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RALGDS (NM_001271774) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RALGDS
Synonyms:	RalGEF; RGDS; RGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234993 representing NM_001271774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCCTGTGGGGCACTCCACAGCCCTGCCACACCCCTCCTCCCCGCTCTGCTGTTCTGCTCCC
 TGCCCTGTGCCCTCCACTTGCAGCCAGGGACTGGGCATCCACCCGGCCAGGTTCCAGGAAGAGCTCCAC
 GCAGGAGATCGGTGAGGAGCTGATCAACGGAGTCTACTCCATCTCCCTGCGCAAGGTGCAGCTGCAC
 CACGGAGGCAACAAGGGGACGCGCTGGCTCGGGTATGAGAATGAGTCGGCCCTGAACCTTTATGAGACTT
 GCAAGGTGCGGACCGTGAAGGCTGGCACGCTGGAGAAGCTGGTGGAGCACCTGGTGCCAGCCTTCCAGGG
 CAGCGACCTCTCCTACGTACCATCTTCTGTGTACCTATAGAGCCTTACCACCACCCAACAGGTCCTG
 GACCTGCTGTTCAAAGATACGGCTGCATCCTCCCCTATCCGACGAGGATGGTGGACCCAGGACCAAC
 TAAAAATGCCATCTCCTCCATCCTGGCACCTGGCTGGACCAGTACTCGGAGGATTTCTGTCAACCTCC
 GGACTTCCCTGCCTCAAGCAGCTGGTGGCCTACGTGCAGCTCAACATGCCAGGCTCAGACTGGAGCGC
 CGTGCCCACTTCTCCTGGCCAGCTGGAGCACTCGGAACCCATTGAGGCAGAGCCTGAGGCTCTGTCCAC
 CAGTGCCAGCTCTAAAACCAACTCCAGAGCTCGAGCTAGCTCTAACACCAGCTCGAGCACCCAGCCAGT
 GCCGGCTCCAGCCCCGGAGCCAGAGCCAGCTCCAACACCAGCTCCAGGTTCCAGAGCTAGAAGTAGCTCCA
 GCACCAGCTCCGGAGCTCCAGCAGGCTCCAGAGCCAGCTGTGGGACTAGAATCGGCTCCAGCGCCAGCTC
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 CCTCACCTTTGGTGTCCCTCCAGATCTGGTGGCAGAGCAGTTTACTGTGATGGATCGGAACTGTTCA
 AGAAGTGGTGGCTACCCTACCTGGCTCCATCTGGTCCCAGCGGGACAAGAAGGGCAAGGACACCT
 GCGGCCACCATCCGCGCCACTGTCACCCAGTTCAACAGTGTGGCCAACGTGTGCATCACCACCTGCCTC
 GGAACCGAAGCACGAAAGCCCCAGACAGGGCCAGGGTGGTGGAGCACTGGATCGAGGTGCCAGGGAGT
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 TGGAGATGAACCCCAAGAGAGCCGAAACGGCCGAAGGAGACGGGCATCATCCAGGGCACCGTTCCCTA
 CCTGGGCAGTTCCTCACCGACCTGGTGTGCTGGACTGCCATGAAGGACTATCTGTATGGCAGACTC
 ATCAACTTTGAGAAGAGGAGGAAGGAGTTCGAGGTGATCGCCAGATCAAGCTGTGCAGTCGGCCTGCA
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 GCTCAGCGTCACTCGGCCGGCTCCTCTAGCTCCGACGTGGAGGAGATCAACATCAGCTTCGTCCCGGAG
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 CGGCTCTGTCTCAGGGCTCTGCAACTCCAGCTCCGCGCTGCCGCTCTACAACCAGCAGTGGGCGACTGC
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 ATGAACCTACCGCCAATATGACTTTGTCTCAAGAAGCGGACCTTACCAAGGGAGTGAAGGTCAAGC
 ACGGAGCCAGCTCCACCTCCCTCGCATGAAGCAGAAAGGACTCAAGATTGCCAAGGGCATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234993 representing NM_001271774
 Red=Cloning site Green=Tags(s)

MCLWGHSTAPAHTLSSPPLLFCSLPCALHLQPGTGHPGQVPRKSSTQEIGEELINGVIYISLKRKVLH
 HGGNKGQRWLYENESALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYVTIFLCTYRAFTTTQOVL
 DLLFKRYGCILPYSDGDPQDLKNAISSILGTWLDQYSEDFCQPPDFPCKQLVAYVQLNMPGSDLER
 RAHLLLAQLEHSEPIEAPEALSPVPALKPTPELELALTPARAPSPVPAPAPEPEPAPTAPGSELEVAP
 APAPQLQAPAPAVGLESAPAPALELEPAEQDPAPSQTLELEPAPAPVPSLQPSWSPVVAENGLSEEK
 PHLLVFPDPLVAEQFTLMDAELFKKVVPYHCLGSIWSQRDKKKEHLAPTIRATVTQFNSVANCVITTCCL
 GNRSTKAPDRARVVEHWIEVARECRILKNFSSLYAILSALQSNISHLKKTWEDVSRDSFRIFQKLSEIF
 SDENNYSLSRELLIKEGTSKFATLEMNPKRAQKRPKETGIIQGTVPYLGTFITDLVMLDTAMKDLYGRL
 INFEKRRKEFEVIAQIKLLQSACNNYSIAPDEQFGAWFRAVERLSETESYNLSCELEPPSESANLRTK
 KNTAIVKRWSRQAPSTELSTSGSSHKSCDQLRCGPYLSGGDIADALSVHSAGSSSSDVEEINISFVPE
 SPDQGEKKFWESASQSSPETSIGISSASSSTSSSSASTTPVAATRTHKRSVSGLCNSSSALPLYNQVGD
 CIIRVSLDVGNGMYKSILVTSQDKAPAVIRKAMDKHNLEEEEPEDYELLQILSDDRKLKIPENANVFYA
 MNSTANYDFVLKKRTFTKGVKVKGHGASSTLPRMKQKGLKIAKGIF

TRTRPLE - GFP Tag - V

Restriction Sites:

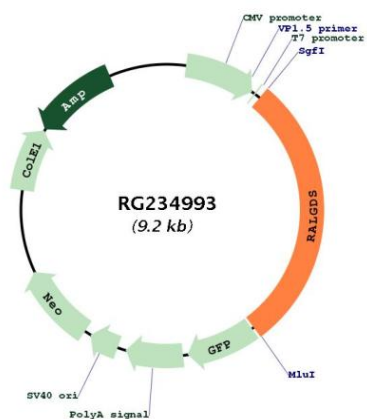
SgfI-MluI

Cloning Scheme:



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:	<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_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
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]

Product images:



Circular map for RG234993