

## Product datasheet for **RC235009**

### **RALGDS (NM\_001271776) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RALGDS (NM_001271776) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RALGDS
Synonyms:	RalGEF; RGDS; RGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC235009 representing NM\_001271776  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCAGCGCATGTGGGCCGAGGCGGCCGGCCTGCTGGCGGCCGAGCCGCTGTTCCGGGCTCCC  
 GCGGAGCCGACGCGTGTGGGACGCCGTGCGCCTGGAGGTGGCGTCCCCGACAGCTGCCGGTGGTGT  
 GCACAGCTTACGCAGCTAGACCCGACCTGCCGCGCCGGAGAGCTCCACGCAGGAGATCGGTGAGGAG  
 CTGATCAACGGAGTCATCTACTCCATCTCCCTGCGCAAGGTGCAGCTGCACCACGGAGGCAACAAGGGG  
 AGCGCTGGCTCGGGTATGAGAATGAGTCGGCCCTGAACCTTTATGAGACTTGCAAGGTGCGGACCGTGA  
 GGCTGGCAGCTGGAGAAGCTGGTGGAGCACCTGGTGCCAGCCTTCCAGGGCAGCGACCTCTCTACGTC  
 ACCATCTCTGTGTACCTATAGAGCCTTACCACCACCAACAGGTCTGGACCTGCTGTTCAAAAGAT  
 ACGGCTGCATCTCCCTATTCCGACGAGGATGGTGGACCCAGGACCACTTAAAAATGCCATCTCCTC  
 CATCTGGGCACCTGGCTGGACCACTCGGAGGATTTCTGTCAACCTCCGGACTTTCCTGCCTCAAG  
 CAGCTGGTGGCCTACGTGCACTCAACATGCCAGGCTCAGACCTGGAGCGCCGTGCCACCTTCTCTGG  
 CCCAGCTGGAGCACTCGGAACCCATTGAGGCAGAGCCTGAGGCTCTGTCAACAGTCCAGCTCTAAAACC  
 AACTCCAGAGCTCGAGCTAGCTCTAACACCAGCTCGAGCACCCAGCCAGTGCAGGCTCCAGCCCGGAG  
 CCAGAGCCAGCTCCAACACCAGCTCCAGGTTCCAGAGCTAGAAGTAGTCCAGCACCAGCTCCGGAGCTCC  
 AGCAGGCTCCAGAGCCAGCTGTGGGACTAGAATCGGCTCCAGCGCCAGCTCTGGAAGTAGAGCCAGCTCC  
 AGAACAGGATCCAGCTCCCTCACAACCTTAGAGCTGGAGCCAGCTCCAGCACCAGTTCATCATTACAG  
 CCTTCTGGCCTTCACTGTGGTTCAGAGAACGGGCTGAGTGAGGAGAAGCCTCACCTCTGGTGTCC  
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 CTGCCTGGGCTCCATCTGGTCCCAGCGGACAAGAAGGGCAAGGAGCACCTGGCGCCACCATCCGCGCC  
 ACTGTCAACCCAGTTCAACAGTGTGGCCTGTCATCAACACCTGCCTCGGGAACCGAAGCACGAAAG  
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 CTCGCTACTGTATGCCATCTCTGCCCCTGCAGAGCACTCCATCCACCGTCTGAAGAAGAGCTGGGAA  
 GACGTTTCCAGGGACAGTTTCCGGATCTTTCAGAAGCTGTGAGAGATCTTCTCAGATGAGAACAACACT  
 CATTGAGCCGGGAGCTGCTCATCAAGGAGGGCACCTCAAAGTTTCCACCCCTGGAGATGAACCCCAAGAG  
 AGCCAGAAACGGCCGAAGGAGACGGGCATCATCCAGGGCACCGTTCCTACCTGGGCACGTTCTCTCACC  
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 GGAAGGAGTTCGAGGTGATCGCCAGATCAAGCTGCTGCACTCGGCTGCAACAACCTACAGCATCCGCGC  
 AGATGAGCAATTTGGGGCTGGTTCGGGCGGTGGAGCGGCTCAGCGAGACTGAGAGCTACAACCTGTCC  
 TGCGAGCTGGAGCCCCATCCGAGTCAGCCAGCAACCCCTCAGGACCAAGAAGAACACAGCCATTGTCA  
 AGCGCTGGAGCGACCCAGGCCCCAGCACTGAGCTCAGTACCAGTGGCAGCTCCCACTCCAAGTCTG  
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 GGCTCCTTAGCTCCGACGTGGAGGAGATCAACATCAGCTTCGTCGGGAGTCTCCTGATGGCCAGGAAA  
 AGAAGTTCTGGGAATCAGCCTCACAGTCATCCCCGGAGACCTCCGGCATCAGCTCAGCCTCCAGCAGCAC  
 CTGCTCCTCCTCAGCCTCCACCACGCCCCTGGCTGCCACAGCACCCACAAGCGCTGTCTCAGGGCTC  
 TGCAACTCCAGCTCCGCGCTGCCGCTCTACAACCAGCAGGTGGGCGACTGCTGTATCATCCGCGTCAAGC  
 TGACGCTGGACAATGGCAACATGTACAAGAGCATCCTGGTACCAGCAAGATAAGGCTCCGGCTGTAAT  
 CCGCAAGGCCATGGACAAACACAACCTGGAGGAGGAGGCCGGAGGACTATGAGCTGCTGCAGATTCTC  
 TCAGATGACCGGAAGCTGAAGATCCCTGAAAACGCCAACGTCTTCTATGCCATGAACTCTACCGCAACT  
 ATGACTTTGCTCAAGAAGCGGACCTTACCAAGGGAGTGAAGGTCAAGCACGGAGCCAGCTCCACCT  
 CCCTCGCATGAAGCAGAAAGGACTCAAGATTGCCAAGGGCATCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC235009 representing NM\_001271776  
 Red=Cloning site Green=Tags(s)

MVQRMWAEAGPAGGAEPLFPGSRRSRSVWDAVRLEVGVPDSCPVVLSHFTQLDPDLRPESSTQEIGEE  
 LINGVIYSISLRKVQLHHGGNKQRWLYENESALNLYETCKVRTVKAGTLEKLVEHLVPAFQGSLSYV  
 TIFLCTYRAFTTTQVLDLLFKRYGCILPYSDDEGGPQDQLKNAISSILGTWLDQYSEDFCQPPDFCLK  
 QLVAYVQLNMPGSDLERRAHLLLAQLEHSEPIEAPEALSPVPALKPTPELELALTPARAPSPVPAPAE  
 PEPAPTPAPGSELEVAPAPAPQLQAPEPAVGLAESAPAPALELEPAEQDPAPSQTLELEPAPVPSLQ  
 PSWSPVVAENGLSEEKPHLLVFPPDLVAEQFTLMDAELFKKVVYPYHCLGSIWSQRDKKGEHLAPTIRA  
 TVTQFNSVANCVITTC LGNRSTKAPDRARVVEHWIEVARECRILKNFSSLYAILSALQNSIHRLLKKTWE  
 DVSRDSFRIFQKLSIFSDENNYLSRELLIKEGTSKFATLEMNPKRAQKRPKETGIIQGTVPYLGFTLT  
 DLVMLDTAMKDYLYGRLINFEKRRKEFEVIAQIKLLQSACNNYSIAPDEQFGAWFRAVERLSETESYNLS  
 CELEPPSESASNTLRKKNTAIVKRWSRQAPSTELSTSGSSHKSCDQLRCGPYLSGGDIADALSVHSA  
 GSSSSDVEEINISFVPESPDGQEKKFWEASQSSPETSIGISSASSSTSSSSASTTPVAATRTHKRSVSL  
 CNSSSALPLYNQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPAVIRKAMDKHNLEEEEPEDYELLQIL  
 SDDRKLKIPENANVFYAMNSTANYDFVLKRTFTKGVKVKHGASSTLPRMKQKGLKIAKGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

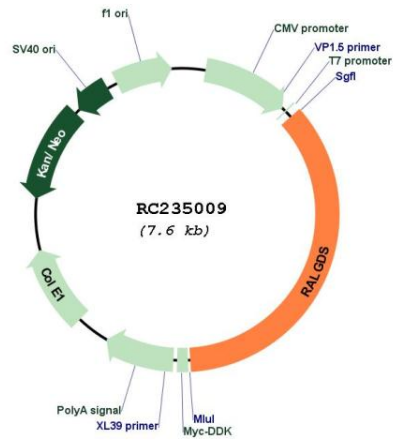
**Cloning Scheme:**



**ACCN:** NM\_001271776

<b>ORF Size:</b>	2706 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271776.2</a>
<b>RefSeq Size:</b>	3694 bp
<b>RefSeq ORF:</b>	2709 bp
<b>Locus ID:</b>	5900
<b>UniProt ID:</b>	<a href="#">Q12967</a>
<b>Cytogenetics:</b>	9q34.13-q34.2
<b>Protein Pathways:</b>	Colorectal cancer, Pancreatic cancer, Pathways in cancer
<b>MW:</b>	99.8 kDa
<b>Gene Summary:</b>	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 RC235009