

Product datasheet for **RC222398**

RALGDS (NM_001042368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RALGDS (NM_001042368) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC222398 representing NM_001042368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGTAGATTGCCAGAGCTCCACGCAGGAGATCGGTGAGGAGCTGATCAACGGAGTCATCTACTCCA
 TCTCCCTGCGCAAGGTGCAGCTGCACCACGGAGGCAACAAGGGCAGCGCTGGCTCGGGTATGAGAATGA
 GTCGGCCCTGAACCTTTATGAGACTTGCAAGGTGCGGACCGTGAAGGCTGGCAGCGTGGAGAAGCTGGTG
 GAGCACCTGGTGCCAGCCTTCCAGGGCAGCGACCTCTCCTACGTCACCATCTTCTGTGTACCTATAGAG
 CCTTACCACCACCAACAGGTCTGGACCTGCTGTTCAAAGGTACGGTAGATGTGACGCCCTCACGGC
 CTCCTCTAGATACGGCTGCATCTCCCTATTCCGACGAGGATGGTGGACCCAGGACCAACTTAAAAAT
 GCCATCTCTCCATCTGGGCACCTGGCTGGACCACTCGGAGGATTTCTGTCAACCTCCGGACTTTC
 CCTGCCTCAAGCAGCTGGTGGCCTACGTGCAGCTCAACATGCCAGGCTCAGACCTGGAGCGCCGTGCCCA
 CCTTCTCTGGCCAGCTGGAGCACTCGGAACCCATTGAGGCAGAGCCTGAGGCTCTGTACCAGTGCCA
 GCTCTAAAACCAACTCCAGAGCTCGAGCTAGCTCTAACACCAGCTCGAGCACCCAGCCAGTGCCGGCTC
 CAGCCCGGAGCCAGAGCCAGCTCCAACACCAGCTCCAGGTTAGAGCTAGAAGTAGCTCCAGCACCAGC
 TCCGGAGCTCCAGCAGGCTCCAGAGCCAGCTGTGGGACTAGAATCGGCTCCAGCGCCAGCTCTGGAATA
 GAGCCAGCTCCAGAACAGGATCCAGCTCCCTCACAAACTCTAGAGCTGGAGCCAGCTCCAGCACCAGTTC
 CATCATTACAGCCTTCTGGCCTTACCTGTGGTTGCAGAGAACGGGCTGAGTGAGGAGAAGCCTCACCT
 CTTGGTGTCCCTCCAGATCTGGTGGCAGAGCAGTTTACACTGATGGATGCGGAAGTGTCAAGAAGGTG
 GTGCCCTACCACTGCCTGGGCTCCATCTGGTCCCAGCGGACAAGAAGGGCAAGGAGCAGCTGGCGCCCA
 CCATCCGCGCCACTGTCAACCCAGTTCAACAGTGTGGCCAACTGTGTATCACCACCTGCCTGGGAAACC
 AAGCACGAAAGCCAGACAGGGCCAGGGTGGTGGAGCACTGGATCGAGGTGGCCAGGGAGTGCCGGATC
 CTCAAGAACTTCTCGTCACTGTATGCCATCCTCTGCCCCTGCAGAGCAACTCCATCCACCGTCTGAAGA
 AGAGCTGGGAAGACGTTTCCAGGGACAGTTTCCGGATCTTTCAGAAGCTGTGAGAGATCTTCTCAGATGA
 GAACAATACTCATTGAGCCGGGAGCTGCTCATCAAGGAGGGCACCTCCAAGTTTCCACCTGGAGATG
 AACCCCAAGAGAGCCAGAAACGGCCGAAGGAGACGGGCATCATCCAGGGCACCGTTCCCTACCTGGGCA
 CGTTCCTCACCGACCTGGTATGCTGGACTGCCATGAAGGACTATCTGTATGGCAGACTCATCAACTT
 TGAGAAGAGGAGGAGGAGTTCGAGGTGATCGCCAGATCAAGCTGCTGCAGTCGGCCTGCAACAACACTAC
 AGCATCGCGCCAGATGAGCAATTTGGGGCCTGGTTCGGGCCGTGGAGCGGCTCAGCGAGACTGAGAGCT
 ACAACCTGTCTGCGAGCTGGAGCCCCATCCGAGTCAGCCAGCAACACCCTCAGGACCAAGAAGAACAC
 AGCCATTGTCAAGCGCTGGAGCGACCGCCAGGCCCCAGCACTGAGCTCAGTACCAGTGGCAGCTCCAC
 TCCAAGTCTGTGACCAGCTCAGGTGTGGCCCCTACCTCAGCAGCGGGGACATCGCTGACGCGCTCAGCG
 TGCACTCGGCCGGCTCCTTAGCTCCGACGTGGAGGAGATCAACATCAGCTTCGTCCCGGAGTCTCCTGA
 TGGCCAGGAAAAGAAGTCTGGGAATCAGCCTCACAGTCATCCCCGGAGACCTCCGGCATCAGCTCAGCC
 TCCAGCAGCACCTCGTCTCCTCAGCTCCACCACGCCGTGGCTGCCACACGCCACCAAGCGCTCTG
 TCTCAGGGCTCTGCAACTCCAGCTCCGCGCTGCCGCTCTACAACCAGCAGGTGGGCGACTGCTGTATCAT
 CCGCGTCAGCCTGGACGTGGACAATGGCAACATGTACAAGAGCATCCTGGTGACCAGCCAAGATAAGGCT
 CCGGCTGTAATCCGCAAGGCCATGGACAAACACAACCTGGAGGAGGAGGAGCCGGAGGACTATGAGCTGC
 TGAGATTCTCTCAGATGACCGGAAGCTGAAGATCCCTGAAAACGCCAACGTCTTCTATGCCATGAACTC
 TACCGCAACTATGACTTTGTCCTCAAGAAGCGGACCTTACCAAGGGAGTGAAGGTCAAGCAGCGGAGCC
 AGCTCCACCTCCCTCGCATGAAGCAGAAAGGACTCAAGATTGCCAAGGGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222398 representing NM_001042368
 Red=Cloning site Green=Tags(s)

```

MMVDCQSSTQEIGEELINGVIYSISLRKVQLHHGGNGQRWLGYNESALNLYETCKVRTVKAGTLEKLV
EHLVPAFQGSDDL SYVTIFLCTYRAFTTTQVLDLLFKRYGRCDALTASSRYGCILPYSDEDGGPQDQLKN
AISSILGTWLDQYSEDFCQPPDFPCLKQLVAYVQLNMPGSDLERRAHL LLAQLEHSEPIEAPEALSPVP
ALKPTPELELALTPARAPSPVPAPAPEPEPAPTAPGSELEVAPAPAPAPAPAPAPAPAPAPAPAPAPAP
EPAPEQDPAPSQTLELEPAPAPVPSLQPSWSPVVAENGLSEEKPHLLVFPPDLVAEQFTLMDAELFKKV
VPYHCLGSIWSQRDKKGEHLAPTIRATVTVQFNSVANCVITTCCLGNRSTKAPDRARVVEHWIEVARECRI
LKNFSSLYAILSALQNSIHRKKTWEDVSRDSFRIFQKLSEIFSDENNYSLRELLIKEGTSKFATLEM
NPKRAQKRPKETGIIQGTVPYLGTFITDLVMLDTAMKDYLGRFINFEKRRKEFEVIAQIKLLQSACNNY
SIAPDEQFGAWFRAVERLSETESYNLSCELEPPSESASNTLRKKNTAIVKRWSDRQAPSTELSTSGSSH
SKSCDQLRCGPYLSGGDIADALSVHSAGSSSDVEEINISFVPESPDGQEKKFWESASQSSPETSIGISSA
SSSTSSSSASTTPVAATRTHKRSVGLCNSSSALPLYNQQVGDCCIRVSLDVDNGNMYKILVTSQDKA
PAVIRKAMDKHNLEEEEPEDYELLQILSDDRKLIKIPENANVFYAMNSTANYDFVLKKRTFTKGVKVKHGA
SSTLPRMKQKGLKIAKGIF
  
```

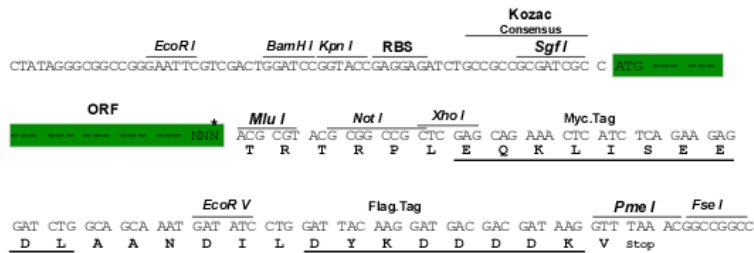
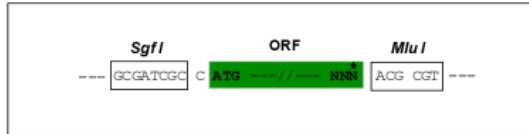
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8041_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

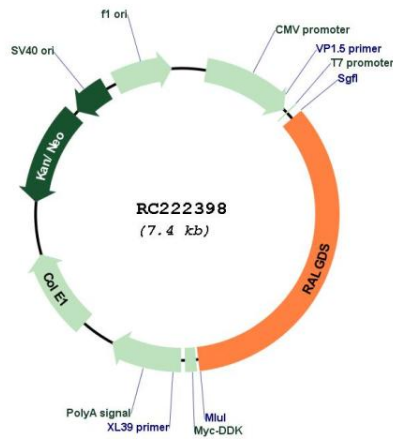
Cloning sites used for ORF Shuttling:



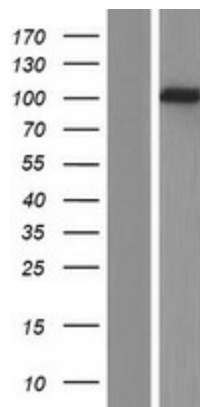
* The last codon before the Stop codon of the ORF

ACCN:	NM_001042368
ORF Size:	2577 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_001042368.3
RefSeq Size:	3668 bp
RefSeq ORF:	2580 bp
Locus ID:	5900
UniProt ID:	Q12967
Cytogenetics:	9q34.13-q34.2
Protein Pathways:	Colorectal cancer, Pancreatic cancer, Pathways in cancer
MW:	94.5 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]

Product images:



Circular map for RC222398



Western blot validation of overexpression lysate (Cat# [LY420857]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222398 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).