

Product datasheet for **RC233087**

RGL2 (NM_001243738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGL2 (NM_001243738) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGL2
Synonyms:	HKE1.5; KE1.5; RAB2L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC233087 representing NM_001243738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCCCCACGTTCTCCCGACGGCTCCGAGCTGGCACTCTGGAGGCCCTGGTCAGACACCTACTGG
 ATACCCGGACATCAGGGACTGATGTGAGCTTCATGTGAGCCTTCCTGGCTACCCACCGGGCCTTCACCTC
 CACGCCTGCCTTCTAGGGCTTATGGCTGACAGGCTGGAAGCCCTTGAATCTCATCTACCAGCAACTA
 GAGAGGACAACAGAGGTAGCCATCTCTGTACTGTCAACCTGGCTGGCCTCTACCCTGAGGATTTTGGCT
 CTGAGGCCAAGGGTCAGCTTGACCGGCTTGAGAGCTTCTACTTCAGACAGGGTATGCAGCAGGGAAGGG
 TGTTGGGGGGGGCAGCGCTGACCTCATCCGCAATCTCCGGTCCCGGGTGGACCCACGGCCCCGACCTT
 CCTAAGCCCTGGCCCTCCCGGCGATCCCCCTGCTGACCCACGGATGCTCTGGTGTCTCTCGCTGACC
 ACTTGGCCGAACAGCTGACCCTGTAGATGCGGAACCTTTTCTCAATTTGATCCCCTCTCAGTGCCTGGG
 AGGCCTGTGGGGTACAGAGACCGGCCAGGACATTCTCACCTCTGCCATCTGTCCGAGCTACTGTCACA
 CAGTTTAAACAAGGTGGCAGGGGCGAGTGGTTAGTTCTGTCTGGGGCTACTTCCACTGGAGAGGGACCTG
 GGGAGGTGACCATACGGCCACTCCGTCCCCACAGAGGGCCCGGCTCTGGAGAAGTGGATCCCGGTGGC
 AGAGGAGTGCCGGCTGCTCCGAACTTCTCTTCAAGTTTATGCCGTGGTGTGAGCCCTGCAGTCCAGCCCC
 ATCCACAGGCTTCGGGCAGCCTGGGGGGAAGCAACCAGGGACAGCCTCAGAGTCTTTTCCAGCCTTGCC
 AGATTTTCTCCGAGGAGGATAATTATCCAGAGTCGGGAGCTGCTGTCGAGGAGGTGAAGCTGCAGTC
 TCCTCTGGAGCCACACTCCAAGAAGGCCCGAGGCTGGCTCCCGGGTGGGGTGTGGTCCCATACTT
 GGCACCTTCTGAAGGACCTTGTGATGCTGGATGCAGCCTCCAAGGATGAGTTGGAGAATGGATACATCA
 ATTTTGAACAAGCGGAGGAAGGAGTTTGCAGTCTTTCTGAGTTGCGACGGCTCCAGAATGAATGTCGTGG
 CTATAACCTCCAACCTGACCATGATATCCAGAGGTGGCTACAGGGGCTCCGGCCACTGACAGAGGCTCAG
 AGCCATCGTGATCCTGTGAGGTGGAGCCACTGGTTCAGTGACCCTCTGCCACAGGGTGTTCGGC
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 TGACCGGCCAGTACTGGGGGAGATGAGGCGCCTACAACCTCTGCTCTCTGCTGACTCGGCTGGCCAG
 CACATGAAGTGGCCATCTGTCTCGTCACTAGACTCTGCCTTGAAAGCAGTCCATCCCTGCACAGTCCAG
 CTGACCCAGCCACTCTCCCACCAGCCTCTCCCTAGGCCTTCTCGAGGTACCCGCCGCTCAGCCTC
 CTGTGGCTCCCGCTGAGTGGGGTGCAGAAGAGGCTCCGGGGGACTGGATATGGGGGAGAGGGATCT
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 AGAGCATTTTGGTGACAAGCCAGGACAAGGCTCCAAGTGTATCAGTCTGCTTAAAGAAAAACAATCG
 TGAATCTGCAAGTGGCTTCAAGATGAGCTGGTACAGCTGCTACAGGGGAGCGAGAGTGAATCCCA
 GCCTCGGCTAATGATTCTACGCCATGGATGGAGCTTACACGATTTCTCTGCGGCAGCGGCGAAGGT
 CCTCTACTGCTACACCTGGCGTACCAAGTGGCCGCTGCTCCTCAGGAACCTCCCGAGTGAGGGAGGAGG
 GGGCTCTTTCCAGGATCAAGGCCACAGGGAGGAAGATTGCACGGGCACTGTTT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233087 representing NM_001243738
 Red=Cloning site Green=Tags(s)

MPPPRSSRRLRAGTLEALVRHLLDTRTSGTDVFSMSAFLATHRAFTSTPALLGLMADRLEALESHTDEL
 ERTTEVAISVLSTWLASHPEDFGSEAKGQLDRLESFLLQTGYAAGKGVGGGSADLIRNLSRVDPQAPDL
 PKPLALPGDPPADPTDVLVFLADHLAEQLTLDDAELFLNLIPSQCLGGLWHRDRPGHSHLCPVSRATVT
 QFNKVAGAVVSSVLGATSTGEGPGEVTVIRPLRPPQARLLEKWIRVAEECRLLRNFSSVYAVVSALQSSP
 IHRLRAAWGEATRDSLRFVSSLQIFSEEDNYSQSRELLVQEVKLQSPLEPHSKKAPRSGSRGGGVVPLY
 GTFLKDLVMLDAASKDELENGYINFDKRRKEFAVLSELRRQLQNECRGYNLQPDHDIQRWLQGLRPLTEAQ
 SHRVSCEVEPPGSSDPPAPRVL RPTLVISQWTEVLGSGVGPVTPLVSCDRPSTGGDEAPTPAPLLTRLAQ
 HMKWPSVSSLDSALESSPSLHSPADPSHLSPASSPRPSRGHRRSASCGSPLSGGAEASGGTGYGGEGS
 GPGASDCRIIRVQMELGEDGSVYKSILVTSQDKAPSVISRVLKKNRDSAVASEYELVQLLPERELTIP
 ASANVFYAMDGASHDFLLRQRRRSTATPGVTSGPSASGTPPSEGGGSFPRIKATGRKIARALF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

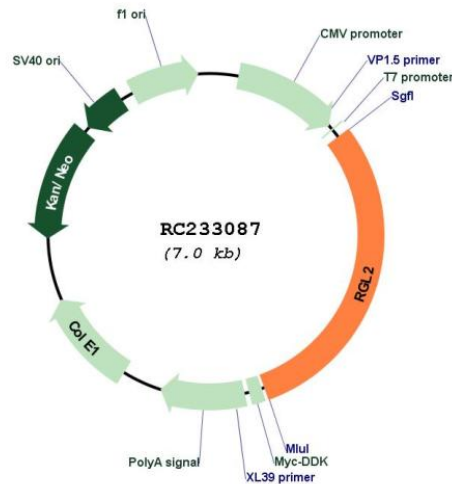
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243738

ORF Size: 2085 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_001243738.1](#), [NP_001230667.1](#)

RefSeq Size: 3165 bp

RefSeq ORF:	2088 bp
Locus ID:	5863
UniProt ID:	<u>O15211</u>
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome
MW:	75.2 kDa
Gene Summary:	Probable guanine nucleotide exchange factor. Putative effector of Ras and/or Rap. Associates with the GTP-bound form of Rap 1A and H-Ras in vitro (By similarity).[UniProtKB/Swiss-Prot Function]