

Product datasheet for **RG207582**

RGL2 (NM_004761) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGL2 (NM_004761) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGL2
Synonyms:	HKE1.5; KE1.5; RAB2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207582 representing NM_004761
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCCGGGCCCTGCGGCTGCTTTTGGACACGAGCCCCCGGGGAGTCGTAAGTACTGAGCAGCTTCC
 GAAGCCGGGACCCGAAGAGGGTGGGGCCAGGTGGCCTGGTCGTGGGCGGGGGCAGGAGGAAGAGGA
 GGAGGAAGAAGAAGAGGCCCTGTGTCCGTCTGGGATGAGGAGGAGGATGGTGCCGTGTTTACCGTCACA
 AGCCGCCAATATCGACCTCTTGATCCCTTGGTCCCTATGCCTCCCCACGTTCTCCCGACGGCTCCGAG
 CTGGCACTCTGGAGGCCCTGGTCAGACACCTACTGGATACCCGGACATCAGGGACTGATGTGAGCTTCAT
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 CTTCTTACTTTCAGACAGGGTATGCAGCAGGGAAGGGTGTGGGGGGGCGAGCGCTGACCTCATCCGCAAT
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 TCGGGAGCTGCTCGTGCAGGAGGTGAAGCTGCAGTCTCCTCTGGAGCCACACTCCAAGAAGGCCCGGAGG
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 CAGCCTCAAGGATGAGTTGGAGAATGGATACATCAATTTTACAAGCGGAGGAAGGAGTTTGCAGTCTCT
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 CTTACACGATTTCTCCTGCGGCAGCGGCAAGGTCTCTACTGCTACACCTGGCGTACCAGTGGCC
 GTCTGCCTCAGGAACCTCCGAGTGAGGGAGGAGGGGCTCCTTCCAGGATCAAGGCCACAGGGAGG
 AAGATTGCACGGGCACTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207582 representing NM_004761
 Red=Cloning site Green=Tags(s)

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MLPRPLRLLLDTSPPGGVVLSSFRRSDPEEGGGPGGLVGGGQEEEEEEEEAPVSVWDEEEDGAVFTVT
SRQYRPLDPLVMPPPRSSRRLRAGTLEALVRHLLDTRTSGTDVSMFAFLATHRAFTSTPALLGLMADR
LEALESHTDELERTTEVAISVLSTWLASHPEDFGSEAKGQLDRLESFLLQTGYAAGKGVGGGSADLIRN
LRSRVDPPQAPDLKPLALPGDPPADPTDVLVFLADHLAEQLTLDAELFLNLIPSQCLGGLWGHDRDPGH
SHLCPSVRATVTQFNKAVAGAVVSVLGATSTGEGPGEVIRPLRPPQARARLLEKWIRVAEECRLLRNFSS
VYAVVSALQSSPIHRLRAAWGEATRDSLRFVSSLCQIFSEEDNYSQSRELLVQEVKLQSPLEPHSKKAPR
SGSRGGGVVYPYLGTFKDLVMLDAASKDELENGYINFDKRRKEFAVLSLRRQLQNECRGYNLQPDHDIQR
WLQGLRPLTEAQSHRVSCEVEPPGSSDPPAPRVLRTPLVISQWTEVLGSVGVPTPLVSCDRPSTGGDEAP
TTPAPLLTRLAQHMKWPSVSSLDSALESSPSLHSPADPSHLSPASSPRPSRGHRRSASCSPSGGAE
ASGGTGYGGEGSGPGASDCRIIRVQMELGEDGSVYKSILVTSQDKAPSVISRVLKKNNRDSAVASEYELV
QLLPGERELTIPASANVFYAMDGASHDFLLRQRRRSSTATPGVTSGPSASGTPPSEGGGGSFPRIKATGR
KIARALF
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



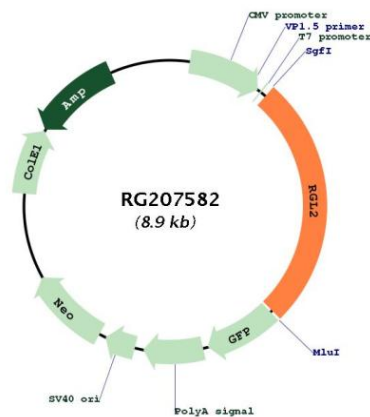
ACCN: NM_004761

ORF Size: 2331 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:	<u>NM_004761.5</u>
RefSeq Size:	2918 bp
RefSeq ORF:	2334 bp
Locus ID:	5863
UniProt ID:	<u>O15211</u>
Cytogenetics:	6p21.32
Domains:	RA, RasGEFN, RasGEF
Protein Families:	Druggable Genome
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]

Product images:


Circular map for RG207582