

## Product datasheet for **MR210600**

### **Rgl2 (NM\_009059) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rgl2 (NM_009059) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rgl2
Synonyms:	KE1.5; Rab2l; Rgt2; Rlf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210600 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCCCGCGGCCCTGCGGCTGCTTTTGGACACGACCCCCCGGGGAGTCGTGCTGAGCAGCTTCC  
 GGAGCCGGGACCCGAAGAGGGTGGGGACCCAGGTGGCCGGGCCGTGGGCGGGGGCAGGAGGAAGAGGA  
 TGAGGAAGAAGAAGAGGCTTCTGTGTCACTCTGGGACGAGGAGGAGGATGGTGCGACCTTTACTGTCA  
 AGCCGCCAGTACAGGCCTCTGACCCCTTGGCTCCCTTGCCTCCACCTCGCTCCTCCCGACGGCTCCGCG  
 CTGGCACTCTGGAGGCCCTGGTCAACACCTCTTGGATGCCAGGACAGCAGGGGCTGACATGATGTTTAC  
 TCCGGCCTTGGTCCACCCACCGGGCCTTCACTCCACTCCTGCCCTGTTTGGGCTTGTGGCTGACAGG  
 CTGGAAGCCCTGAATCTCATCTCCCGGTGAGCTAGAGAGGACCACAGGGGTAGCCATCTCTGTACTTT  
 CAACTTGGCTGGCCTCTACCCCTGAGGATTTTGGCTCTGAGGTCAAGGGTCAACTTGACCGGCTTGAGAG  
 CTTCTTGTTCGACAGGGTATGCAGCACGGGAGGGTGTGTGGGGGGCAGTGTGACCTCATCCGAAAC  
 CTCGGGGCCCGGGTGGACCCCGGGCCCGACCTTCTAAGCCCTGGCCCTTCTGGCGATTCCCTGT  
 CTGACCCACGGATGTCCTGGTGTCTCGCTGACCCTTGGCCGAACAGCTGACCTGCTAGATGCGGA  
 ACTGTTTCTTAATCTGATCCCCTCTCAGTGTGGGAGGCCTCTGGGGTACAGAGACCGGCCAGGACAT  
 TCTCACCTCTGCCCGTCTGTCCGAGTACCGTACACAGTTCAACAAGGTGGCGGGGGCGGTAGTTAGCT  
 CTGTCTTGGGGCCACCTCAATTGGAGAGGGGCAAGAGAGGTGACTGTGAGACCACTGCCGCCCCACA  
 GAGGGCCCGGCTCTAGAGAAGTGGATCCGTGTGGCCGAGGAGTCCCGCTGCTTCGGAACCTCTCTCA  
 GTGATGTCTTGTGTCCGCTTGCAGTCCAGCCCTATCCACAGGCTTCGGGACGCTGGGGGAGACAA  
 CCAGGGACAGCCTCCGAGTCTTTCCAGCCTGTGCCAGATTTTCTCAGAGGAGGATAATTATCCAGAG  
 CAGAGAGCTCCTCATGCAGGAAGTGAAGCCGACGCCCTGTGGAGCCACACTCCAAGAAGGCCCAAGG  
 TCTGGCTTCAAGGGTGGGGTGTGGTCCCTACCTGGGAACCTTCTGAAGGACCTCGTGATGCTGGATG  
 CGGCCTCAAGGATGAGCTGGAGAATGGCTACATCAATTTGACAAGCGGAGGAAGGAGTTTGTATCCT  
 TTCGGAGCTGTTGCGCTCCAGAAAGAATGTCGTGGCTACGACCTCCGACCTAATCTGATATCCAGCAA  
 TGGCTCCAGGGCCTCCAGCCTTAACTGAAGCTCAGAGTACCGTGTATCCTGTGAAGTGGAGCCACCAG  
 GGACAGTGACTCCCCGCTGCAAGGACACCTCGGCCAACACTAGTGATCACACAGTGGACGGAAGTTCT  
 GGGCTCTGTTGGAGGCCCACTCCGCTTGTCTCGGATCGGCCAGTGTGGGGGAGATGAGGTGCCT  
 GGAACCCAGCACCTCTGCTGACTCGCCTCGCCAGCACATGAAGTGGCCATCAGTCTCATCTCTGGACT  
 CTGCCCTGGAAAGCAGCCCTCCTTGCACAGCCCTGCTGACCCTGGCCACCTCTCTCTCCAGCCTCCTC  
 CCTAGGCCTTCCCGGGTCAACCGTCCGCTCAGCCTCCTGTGGGTCTCCGTTGAGTGGAAACACAGGAGAA  
 GGGACCTTAGGAGTGTGGATGTGGGGCGGGGTATCTGGGCCAGGGTCTCTGATTGCCGAATCATCC  
 GAGTCCAGATGGAGCTGGGGGAGGATGGCAGCGTCTACAAGAGCATCCTGGTGACAAGCCAGGACAAAGC  
 TCCAAGTGTATTAGTCGTGTCTTAAGAAAAACAATCGTGATTCTGCTGTGGCTTCCAGAGTTCGAGCTG  
 GTGCAGCTGCTACCTGGGGATCGAGAGCTGACCATCCACACTCAGCTAACGTCTTCTATGCCATGGATG  
 GTGCATCTCATGACTTCTCTCGGCGAGCGCAGAAGACCCTCTGCTGCCACCCCGGGTCCACAGCGG  
 CCCCTCTGCCTCAGGAACCTCTCCGAGCGAGGGGGAGGGGCTCTTTCCAGGATCAAGGCCACGGGG  
 AGGAAGATTGCACGGGCACTGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR210600 protein sequence  
 Red=Cloning site Green=Tags(s)

MLPRPLRLLDTPPGGVVLSFRSRDPEEGDPGGRAVGGGQEEEEEEEEASVSVWDEEEDGATFTVT  
 SRQYRPLDPLAPLPPRSTRRLRAGTLEALVRHLLDARTAGADMMFTPALLATHRAFTSTPALFGLVADR  
 LEAESHPPGELERTTGVAISVLSTWLASHPEDFGSEVKGQLDRLESFLLRTGYAAREGVVGGSSADLIRN  
 LRARVDPRAPDLPKPLALPGDSPADPTDVLVFLADHLAEQLTLLDAELFLNLIPSQCLGGLWGHDRDPGH  
 SHLCPSVRATVTQFNKVAGAVVSSVLGATSI GEGPREVTVRPLRPPQARLLEKWIRVAEECRLLRNFSS  
 VYAVVSALQSSPIHRLRAAWGETTRDSLRFVSSLCQIFSEEDNYSQSRELLMQEVKQPVPVEPHSKKAPR  
 SGFRGGGVVYPYLGTFKDLVMLDAASKDELENGYINFDKRRKEFAILSELLRLQKECRGYDLRPNSDIQQ  
 WLQGLQPLTEAQSHRVSCEVEPPGTS SPAARTPRPTLVITQWTEVLGSVGGPTPLVSWDRPSVGGDEVP  
 GTPAPLLTRLAQHMKWPSVSSLDSALESSPSLHSPADPGHLSPASSPRPSRGHRRSASC GSPLSGNTGE  
 GTSRSAGCGGGVSGPGSSDCRIIRVQME LGEDGSVYKSILVTSQDKAPSVISRVLKNNRDSAVASEFEL  
 VQLLPGDRELTIPHSANVFYAMDGASHDFLLRQRRRPSAATPGSHSGPSASGTPPSEGGGGSFPRIKATG  
 RKIARALF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_009059

ORF Size: 2337 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\\_009059.2](#), [NP\\_033085.2](#)

**RefSeq Size:** 2967 bp

**RefSeq ORF:** 2337 bp

**Locus ID:** 19732

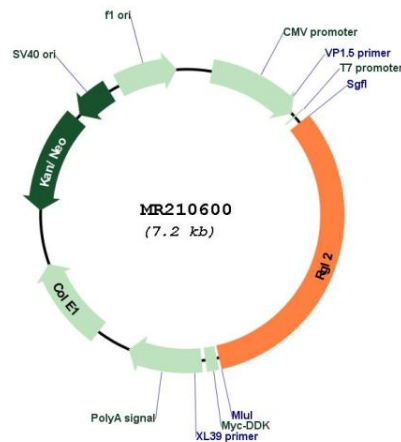
**UniProt ID:** [Q61193](#)

**Cytogenetics:** 17 B1

**MW:** 83.8 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.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210600