

Product datasheet for **MC221430**

Rgl1 (NM_016846) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgl1 (NM_016846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgl1
Synonyms:	mKIAA0959; R; Rgl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221430 representing NM_016846
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAATTACTTTGGCAAGCTAAAAAGAGCTCGATTAGGACTGGGGTGAAGAGGTAGAGGAAGGAGCTG
 TTTACCATGTCACCTCAAAAGAGTCCAGATTCAACAGGCGGCCAATAAAGGAGCGAGATGGCTAGGGGT
 TGAAGGGGACCAGCTGCCTCCAGGACACACAGTCAGTCAGTACGAGACCTGCAAGATCAGGACCATCAAA
 GCTGGTACGCTGGAGAAGCTTGTGGAGAACCTGCTGACGGCTTTTGGGACAATGACTTTACCTACATCA
 GCATCTTTTTGTGACATACAGAGGCTTTGCCTCGACTAAGGAAGTGTGGAGCTGCTGTTGACAGGTA
 TGGAAACCTGACAGGCCAACTGTGAAGACGATGGAAGCCAAAGTTCACCCGAGTCCAAGGCCGTGATC
 CGGAATGCCATTGCTTCCATCCTGAGGGCCTGGCTTGACCAAGTGTGCGGAAGACTTCCGGGAGCCCCCTC
 ACTTCCCTTGCCTTCAGAAGCTGCTGGAGTACCTCAAACAGATGATGCCTGGCTCTGACCCAGAGAGGAG
 AGCACAGAACCTTCTTGAACAGTTTCAAAGCAGGACGTGGATTCCGACAATGGACTTCTCAACACCAGC
 TCCTTCAGCCTGGAAGAGGAAGAGGAAGTGGAGAGCGGAGGGTACGACAGAATTCAGAACTTCTCAGAAG
 ATCTCGTGGCAGAACAGCTGACCTACATGGACGCACTATTCAAGAAGGTAGTGCCTCACCATTGCCT
 GGGCTGTATTTGGTCTCAGCGGGATAAAAAGGAAAAACAAGCATTGGCTCCTACGATCCGTGCCACCATC
 TCTCAGTTTAATACGCTCACCAGTGTGTGTCAGCACCGTCTGGGGAGCAAGGAACCTCAAACTCAGC
 AGCGAGCCAGAGTCATCGAGAAGTGGATCAACATTGCTCAGCAATGTAGAATCCTGAAGAATTTTCTCTC
 CTTGAGGGCCATCGTTTCCGCACTGCAGTCTAATTCATCTATCGGTTGAAAAAGGCTTGGGCTGCTGTC
 CCGAAGGACAGAATGCTGATGTTTGAAGAACTTTCAGATATCTTCTCTGATCACAATAACCATCTAACCA
 GTCGGGAGCTACTAATGAAGGAAGGAAGTTCAAAATTTGCAAACCTGGACAGCAGCGTGAAGAAAAACCA
 GAAGCGGACCCAGAGGCCCTGCAACTGCAGAAGGATATGGGTGTGATGCAGGGTACCGTGCCTTACCTG
 GGCACCTTCTGACTGACCTGACCATGTGGACACTGCCCTGCAGGACTACATTGAGGGTGGACTGATCA
 ACTTCGAGAAAAGAAGAGGGAATTTGAAGTATTGCCAGATAAAGCTCCTACAGTCTGCTTGCAACAG
 CTACTGCATGGGCCCAGACCAGAAGTTTATCCAGTGGTCCAGAGGCAGCAGCTTCTATCAGAGGAGGAA
 AGCTACGCCCTCTCGTGTGAGATTGAAGCCGCTGCCGACGCCAACACCACTTCCCCTAAGCCTCGGAAAA
 GCATGGTGAAGAGGCTGAGCCTGCTATTTCTGGGGTCTGACATCATCCCCGGGAGCACTCCACCAAAGA
 GCAGCCCAAGTCCGAGCCAGTGGGAGCTCTGGGAGAGTATGGACTCAGTCAGTGTGCTGCTCCTGTGAA
 TCAAACCACTCCGAGGCTGAGGAGGGCCCCGTACACCCATGGACACACCAGATGAGCCCCAAAAGAAGC
 TCTCTGAATCCTCCTCTTCTGTTCTCCTCATCCATTCCATGGACACGAATTCCTCAGGGATGTCTGCCCT
 AATCAACCCCCTGTCTCCCTCCAACGTGCAACAACAATCCTAAATCCACAAGCGCTCCGTCTCCGTG
 ACATCCATTACCTCCACAGTACTGCCTCCTGTTTACAATCAGCAGAACGAAGACACCTGCATCATCCGCA
 TCAGTGTAGAAGACAACAATGGCAACATGTACAAGAGCATCATGCTGACAAGCCAGGATAAGACCCCCGC
 TGTGATCCAGAGAGCGATGTGCAAGCACAACCTGGAGTCGGACCCCGCCGAGGAGTATGAGCTGGTGCAG
 GTCATCTCGGAGGACAAAGAAGTGTGATCCCGGACTCTGCAAACGTCTTTACGCCATGAATAGCCAAG
 TGAACCTTTGATTTTCAATTTACGCAAAAAGAAGTCCGGTGGAGGAGCAGGTGAAGTTGCGCAGTCGGACCA
 CCTGACTTTGCCCAGGACAGCTAAGCGGGGCTGCTGGAGTAACAGGCACAGCAAGATCACCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACC�: NM_016846
Insert Size: 2307 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_016846.3</u> , <u>NP_058542.2</u>
RefSeq Size:	3887 bp
RefSeq ORF:	2307 bp
Locus ID:	19731
UniProt ID:	<u>Q60695</u>
Cytogenetics:	1 G2- G3
Gene Summary:	This gene encodes a member of the Ras-like (Ral) -selective guanine nucleotide exchange factor (RalGEF) family of small GTPase activators which function both as downstream effectors of activated Ras GTPase and as regulators of certain Ral GTPases in the RalGEF - Ral GTPase signaling pathway. The encoded protein, like other RalGEFs, has an N-terminal ras exchanger motif domain, a catalytic CDC25 homology domain, and a C-terminal ras binding domain that stimulates guanine nucleotide exchange when bound to a Ral GTPase. RalGEF family members bridge the Ras and Ral signaling pathways and are thought to play a role in oncogenic transformation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016] Transcript Variant: This variant (4) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at an alternate start codon and result in an isoform (3) with a shorter and distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. COMPLETENESS: complete on the 3' end.