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Product datasheet for MG210552

Rgl1 (BC017678) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgl1 (BC017678) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rgl1
Synonyms:	Rgl, mKIAA0959
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG210552 representing BC017678
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAATTACTTTGGCAAGCTAAAATGAGCTCGATTCAGGACTGGGGTGAAGAGGTAGAGGAAGGAGCTG
TTTACCATGTCACCCTCAAAAGAGTCCAGATTCAACAGGCGGCCAATAAAGGAGCGAGATGGCTAGGGGT
TGAAGGGGACCAGCTGCCTCCAGGACACACAGTCAGTCAGTACGAGACCTGCAAGATCAGGACCATCAAA
GCTGGTACGCTGGAGAAGCTTGTGGAGAACCTGCTGACGGCTTTTGGGGACAATGACTTTACCTACATCA
GCATCTTTTTGTCGACATACAGAGGCTTTGCCTCGACTAAGGAAGTGCTGGAGCTGCTGCTGGACAGGTA
TGGAAACCTGACAGGCCCAAACTGTGAAGACGATGGAAGCCAAAGTTCACCCGAGTCCAAGGCCGTGATC
CGGAATGCCATTGCTTCCATCCTGAGGGCCTGGCTTGACCAGTGTGCGGAAGACTTCCGGGAGCCCCCTC
ACTTCCCTTGCCTTCAGAAGCTGCTGGAGTACCTCAAACAGATGATGCCTGGCTCTGACCCAGAGAGGAG
AGCACAGAACCTTCTTGAACAGTTTCAAAAGCAGGACGTGGATTCCGACAATGGACTTCTCAACACCAGC
TCCTTCAGCCTGGAAGAGGAAGAGGAACTGGAGAGCGGAGGGTCAGCAGAATTCACGAACTTCTCAGAAG
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TCAGTGTAGAAGACAACAATGGCAACATGTACAAGAGCATCATGCTGACAAGCCAGGATAAGACCCCCGC
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GTCATCTCGGAGGACAAAGAACTAGTGATCCCGGACTCTGCAAACGTCTTTTACGCCATGAATAGCCAAG
TGAACTTTGATTTCATTTTACGCAAAAAGAACTCGGTGGAGGAGCAGGTGAAGTTGCGCAGTCGGACCAG
CCTGACTTTGCCCAGGACAGCTAAGCGGGGCTGCTGGAGTAACAGGCACAGCAAGATCACCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

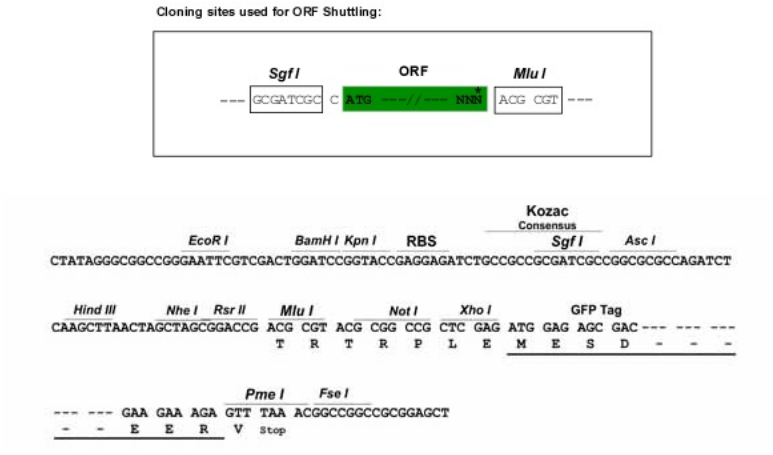
>MG210552 representing BC017678
Red=Cloning site Green=Tags(s)

MKLLWQAKMSSIQDWGEEVEEGAVYHVTLKRVQIQQAANKGARWLGVEGDQLPPGHTVSQYETCKIRTIK
AGTLEKLVENLLTAFGDNDFTYISIFLSTYRGFASTKEVLELLLDRYGNLTGPNCEDDGSQSSPESKAVI
RNAIASILRAWLDQCAEDFREPPHFPCLQKLLEYLKQMMPGSDPERRAQNLLEQFQKQDVDSDNGLLNTS
SFSLEEEEELESGGSAEFTNFSEDLVAEQLTYMDAQLFKKVVPHHCLGCIWSQRDKKENKHLAPTIRATI
SQFNTLTKCVVSTVLGSKELKTQQRARVIEKWINIAHECRILKNFSSLRAIVSALQSNSIYRLKKAWAAV
PKDRMLMFEELSDIFSDHNNHLTSRELLMKEGTSKFANLDSSVKENQKRTQRRLQLQKDMGVMQGTVPYL
GTFLTDLTMLDTALQDYIEGGLINFEKRRREFEVIAQIKLLQSACNSYCMGPDQKFIQWFQRQQLLSEEE
SYALSCEIEAAADANTTSPKPRKSMVKRLSLLFLGSDIIPGSTPTKEQPKSAASGSSGESMDSVSVSSCE
SNHSEAEEGPVTPMDTPDEPQKKLSESSSSCSSIHSMDTNSSGMSSLINPLSSPPTCNNNPKIHKRSVSV
TSITSTVLPPVVYNQQNEDTCIIRISVEDNNGNMYKSIMLTSQDKTPAVIQRAMSKHNLESDPAEEYELVQ
VISEDKELVIPDSANVFYAMNSQVNFDFILRKKNSVEEQVKLRSRTSLTLPRTAKRGCWSNRHSKITL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC017678

ORF Size: 2304 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: BC017678, AAH17678

RefSeq Size: 3908 bp

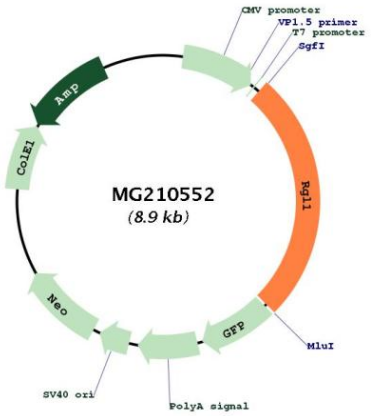
RefSeq ORF: 2306 bp

Locus ID: 19731

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]

Product images:



Circular map for MG210552