

## Product datasheet for **MG208271**

### Ralgps1 (BC072656) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgps1 (BC072656) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ralgps1
Synonyms:	mKIAA0351, RALGEF2, RALGPS1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208271 representing BC072656  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACAAGAGGAATGGTCTGATGGCTAGCGTGTGGTCACTCTGCCACTCCACAGGGCAGCAGCAGCT  
 CAGACTCGCTGGAGGGCCAGAGCTGCGACTATGCCAGCAAGAGCTACGATGCTGTCGTCTTCGACGTCT  
 GAAAGTGACTCCCGAGGAGTTTGCCAGTCAGATCACATTGATGGACATCCCCGTGTTCAAAGCCATCCAG  
 CCAGAGGAGTTGGCCAGTTGTGGATGGAGTAAAAAGGAGAAAACACAGTCTTGCCCCAACGTCGTGGCCT  
 TTACCCGGAGGTTCAACCAGGTCAGTTTTTGGGTCGTACGAGAAATCTAACAGCACAGACTTTAAAAAT  
 AAGGGCAGAAATCCTGAGCCATTTGTGAAAATAGCCAAGAACTTCTAGAAGTGAACAACCTTCATTCT  
 CTCATGTCTGTGGTGTGAGCATTACAAAGTGCTCCCATCTTCAGGCTGACAAAAACCTGGGCTCCTTTGA  
 ATCGAAAAGACAAGACTACTTTTGAGAACTTGACTACCTGATGTCCAAAGAAGACAACACAAGCGAAC  
 CCGGGACTACATCCGAAGTCTGAAGATGGTGGCCAGCATTCCCTATCTAGGAATCTACCTTCTGGACTTG  
 ATCTACATTGATTCTGCATACCCCTGCCTCTGGCAGCATCATGGAAAACGAACAACGATCCAACCAGATGA  
 ACAACATCCTCCGAATCATTGCCGATTTACAAGTTTCTGTAGCTATGATCACCTCACTACCCCTGCCACA  
 TGTGCAAAAGTACCTGAAGTCTGTGCGCTACATCGAGGAGCTCCAGAAGTTTGTAGAAGATGATAATTAC  
 AAGTTGTCACTCAGAATCGAACCAGGAAGCAGCTCTCCAAGACTAGTTTCGTCCAAGGAAGATCTTGCGAG  
 GCCCTCTGCCGGCTCCAGCTCAGCCAGGTTCCGCCGGAGGCCACCTGTCCAGATACATCTGTGGCCGG  
 CAGCCTCCCCACACCGCCAGTCCCAGACACAGGAAGAGCCACAGCCTAGGCAACAACAGGGGACGTCTT  
 TATGCCACGCTGGGACCTAACTGGCGGTTCCAGTTCGGAATCTCCAGAACTCGGAGCTGTGTCTACA  
 GCCCCACGAGCCCTTGCACCTGTACTGTGGGAAGCTCAGCCACTGTGCCACTATGGAGGGCCCTGAG  
 ACGGAAAACCCCTGCTCAAGGAAGGCCGGAAGCCTGCACTGTCTCGTGGACCAGGTAAGGTTGTACTC  
 TCAGGAGCCACCCTCCTTTACTATGGAGCCAAGTCTTTGCGGGTACAGACAGAAAAATTATAAATCTA  
 CACCTGGCAAGAAGTCTCCATCGTAGGCTGGATGGTGCAGCTGCCAGATGACCCCGAGCACCCAGATAT  
 CTTCCAGCTGAATAACCCCTGACAAAGGCAATGTTTACAAGTTCAGACGGGCTCCCGTTCCATGCGATA  
 CTGTGGCACAAGCATTGGATGATGCATGTAAGCAGCAGGCCCTCAGGTACCTGCAAACCTTATGTCTT  
 TTGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208271 representing BC072656  
 Red=Cloning site Green=Tags(s)

MYKRNLMSVLT SATPQGS SSSDSLEGQSCDYASKSYDAVVFV LKVTPEEFASQITLMDIPVFKAIQ  
 PEELASCGWSKKEKHS LAPNVVAFTRRFNQVSFWVREILTAQTLKIRAEILSHFVKIAKKLLELNNLHS  
 LMSVVSALQSAPIFRLTKTWAPLNRKDKTTFEKL DYLMSKEDNYKRTRDYIRSLKMVPSIPYLG IYLLDL  
 IYIDSAYPASGSIMENEQRSNQMNILRIIADLQVSCSYDHLTTLPHVQKYLKSVRYIEELQKFVEDDNY  
 KLSLRIEPGSSSPRLVSSKEDLAGPSAGSSARFRRRPTCPDTSVAGSLPTPPVPRHRKSHSLGNNRGR  
 YATLGNWRVPVRNSPRTRSCVYSPTSPCTCTVGSSATVPTMEGPLRRKTLLEKGRKPALSSWTRYVVV  
 SGATLLYYGAKSLRGTDRKHYSSTPGKVSIVGWMVQLPDDPEHPDIFQLNPNPKGNVYKFTGSRFHAI  
 LWHKHLDDACKSSRPQVPANLMSFE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** BC072656

**ORF Size:** 1547 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:** [BC072656](#), [AAH72656](#)

**RefSeq Size:** 6066 bp

**RefSeq ORF:** 1547 bp

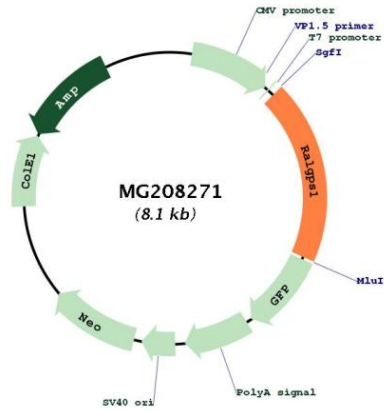
**Locus ID:** 241308

**Cytogenetics:** 2 B

**Gene Summary:**

Guanine nucleotide exchange factor for the small GTPase RALA. May be involved in cytoskeleton organization.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG208271