

Product datasheet for **MR209202**

Ralgps2 (NM_001159965) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgps2 (NM_001159965) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ralgps2
Synonyms:	1810020P17Rik; 2210408F11Rik; 4921528G01Rik; 9130014M22Rik; AU043409; AW046161
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209202 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACCTAATGAACGGGCAGGCAAGCAGTGTTACTATCGCAGCCACTGTTTCCGAGAAGAGTAGCAGCT
 CTGAGTCACTAAGCGAGAAGGGCTCTGAATTGAAGAAAAGCTTTGATGCTGTGGTGTGATGTTCTTAA
 GGTACGCCAGAAGAATACGCGGTGAGATAACACTAATGGATGTTCCAGTGTTTAAAGCTATTCAGCCA
 GATGAACCTTCAAGTTGTGGATGGAATAAAAAAGAAAAATATAGTTCTGCACCAATGCAGTTGCTTCA
 CAAGAAGATTTAATCACGTAAGCTTTTGGGTTGAAGAGAGATTCTCCATGCTCAAACTGAAAAAAG
 AGCAGAAGTTTGTAGCCACTATTAAGACTGCTAAGAACTATATGAACCTAACACCTTCACGCACTT
 ATGGCTGTGGTTTCTGGCTTACAGAGTGCGCCGATTTTCCGGTTGACTAAGACGTGGGCGTTATTAAGTC
 GAAAAGACAAAACCTTTGAAAACTAGAATATGTAATGAGTAAAGAAGATAACTACAAAAGACTCAG
 AGACTATATAAGCAGCTTAAAGATGACTCCTTGCACTTCCCTATTTAGGCATCTATTTGTCTGACTTGACC
 TACATTGACTCCGCGTACCCATCCACCGCAGCATTCTAGAAAATGAGCAAAGATCAAATCTGATGAACA
 ACATTCTTCAATAATTTCTGATTTGCAGCAGTCTGTGAATATGATATTTCCATATTGCCTCATGTCCA
 AAAATACCTGAACCTCTGTTCACTATATAGAAGAACTACAAAAGTTTGTGGAAGACGATAATTACAAGCTC
 TCCTTAAAGATAGAACCAGGAGCAAGTACTCCACGCTCGGCTGCCTCCAGGGAGGACCTAGCAGGTCCTG
 ACATAGGCGCCTCACCCAGGGAGGGAGGAAGAGTAGTGCTGCTGCTGCTGCCGCCGCGGCTGCCGAGGG
 AGCCTTACTGCCACAGACGCCACCTTCCCTCGGAACCTATTCCACACGGACACAGGAAGTGCCACAGC
 CTGGGTTACAATTTCAATCATAAGATGAACACAGCAGAGTTTAAAGAGCGAACGTTCCCAAACGCGAGGC
 CACGGCACCTGCTGGATGATAGTGTCTGAGGCCGACGACCGTCCGAGGCCAGGCTGAGAGCTCTAC
 ACTTTCCAGTGGGAATATCCATAGGGAGCAGTGATGGTTCTGAACCTAAGCGAAGAGACCTCATGGCCGCT
 TTTGAAAGGAACAGATTATACCATTCTCTCGGCCGCTGACAAGAGTGCCGCGAAATGGCTATCGAAGCC
 ACACGAAGGCCAGCAGCTCTGCGGAGTCGGAAGATTTGCGGTCATCTGTACCCCGAGCTGTTACTAT
 TCAAGGTGTGCTCCGAGGAAAACCTTGTCTAAAAGAGGCAAGAAACCCACAGTAGCATCTTGACAAAG
 TATTGGGCAGCCTTGTGTGAACACAGCTTTTTTACTATGCCGCCAAATCTCTGAAGGCTACAGAAAGAA
 AGCATTTCAAATCAACGTCAAATAAGAATGTGTCTGTGGTGGGCTGGATGGTGATGGCTGACGACCC
 AGAGCATCCAGACCTCTTCTGCTGACTGACTCCGAGAAAGGAAATTCATACAAGTTTCAAGCTGCGAGC
 AGGATGAATGCAATGCTGTGGTTTAAACACTTGAGCGCGCCTGCCAGAGTAACAAGCAACAGGTTCTTA
 CAACTTGATGACTTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209202 protein sequence
 Red=Cloning site Green=Tags(s)

MDLMNGQASSVTIAATVSEKSSSESLEKSELKKSFDVAVFDVLKVTPEEYAGQITLMDVPVFKAIQP
 DELSSCGWNKKEYSSAPNAFAFTRRFNHVSFVWVREILHAQTLKIRAEVL SHYIKTAKKLYELNNLHAL
 MAVVSGLQSAPIFRLTKTWALLSRDKTTFEKLEYVMSKEDNYKRLRDYISSLMTPCIPYLGILSDLT
 YIDSAYPSTGSILENEQRSNLMNNILRIISDLQSQCEYDIPILPHVQKYLNSVQYIEELQKFVEDDNYKL
 SLKIEPGASTPRSAASREDLAGPDIGASPGGRKSSAAAAAEGALLPQTPSPRNLIPHGRKCHS
 LGYNFIHKMNTAEFKSATFPNAGPRHLDDSVMEPHAPSRGQAESSTLSSGISIGSSDGSELSEETSWPA
 FERNRLYHSLGPVTRVPRNGYRSHTKASSSAEEDLAVHLYPGAVTIQGVLRRLTLLKEGKKPTVASWTK
 YWAALCGTQLFYAAKSLKATERKHFKSTSNKNVSVVGMVMMADDPEHPDLFLLTDSEKNSYKFQAGS
 RMNAMLWFKHLSAACQSNKQQVPTNLMTFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001159965

ORF Size: 1770 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: [NM_001159965.1](#), [NP_001153437.1](#)

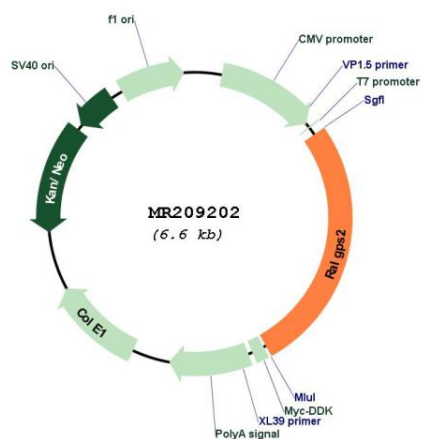
RefSeq Size: 6992 bp

RefSeq ORF: 1773 bp

Locus ID: 78255

UniProt ID:	<u>Q9ERD6</u>
Cytogenetics:	1 G3
MW:	65.5 kDa
Gene Summary:	Guanine nucleotide exchange factor for the small GTPase RALA. May be involved in cytoskeletal organization. May also be involved in the stimulation of transcription in a Ras-independent fashion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209202