

Product datasheet for **RR208476**

Racgap1 (NM_001108112) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Racgap1 (NM_001108112) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Racgap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208476 representing NM_001108112
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATACTACAATGGTGAATCTGTGGACTCTGTTTGAGCAGCTTGTGCGCCGGCTGGAGATTATCAATG
 AAGGAAATGAAAGCATTGAATTCATCCAGTGTGTAAAGGACTTCGAGGACTTCGAAAGAAATGTCAAAG
 AACCAACCAGGAGCTGGAGAAATTCAAAGATCTGTTGTTGAAGGCAGAGACTGGCGGAGTGCCTGGAC
 GTCAAGCTGAAGCACGCCGTAACCAAGTGGATGTGGAGATCAAACGGAGGCAACGAGCTGAGGCCGAGT
 GTGCGAAGCTGGAACAACAGATTCAGCTGATTCGAGATATACTCATGTGTGACACAACCTGGCAGCATCCA
 GCTAAGCGAGGAACAAAATCAGCTCTGGCTTTTCTCAACCGAGGCCAAGCATCCAGTGGCAACGCTGGG
 AACATAGACTGTCAACGATTGATGAATCTGGCTCCATTTTATCAGATATCAGCTTTGACAAGACTGATG
 AATCACTGGACTGGGATTCTTCTTTGAAGAATTCAAAATGAAGAAACGAGAAAAGAGGCCCTCCAGCAG
 TAGACAGTTCATCGATGGCCCTCTGGCCTGTGAAGAAAACGTGTTCCATTGGCTCTACAATAGACCAG
 GCAATGAATCAATAGTTGCTAAAACAACGGTACTGTCCCAGTGACGGTGGGCCATTGAAGCCGTGT
 CCACTATCGAGACATTGCCGTGTGGACCAGGAGTCGAGGGAAATCAGGACCTTTACAACCTGTGAACAG
 CGACTCTGCTCTCAATAGCAGGCCACTGGAGCCAAGAAGTACTGAGACAGACGCTGTGGGCACACCCCAAGT
 AATGGCATGCGCTTACACGACTTTGCTCAAAGACGGTTATTAAGCCTGAATCTTGTGTCCCGTGTGGGA
 AGCGGATCAAGTTTGGCAAGCTGTCTCTGAAGTGTGCGGACTGTCGTTTGGTCTCTCATCCAGAATGCCG
 GGACCGATGTCCCTTCCCTGCATTCTCCCTGGTGGGAACCCCGTGAAGATTGGAGAGGGAATGCTG
 GCAGATTTTGTGTCGACACTTCCCAATGATTCCTGCTATTGTTGTGAGCTGTGTGAATGAGATTGAGC
 AGCGAGGCTGACTGAGGCAGGCTTATACAGGATCTCAGGCTGTGACCGGACAGTAAAGGACTGAAAGA
 GAATTCCTTAAAGTAAAACCGTGCCTTCTCAGCAAAGTGGACGACATCCATGCCATCTGCAGCCTC
 CTGAAAGACTTCTTTCGAAACCTCAAGGAACCCCTTCTGACCTTTTGGCTAAGCAAAGCGTTTATGGAGG
 CAGCAGAGATAACGGATGAAGACAACAGCACAGCCGCATGTACCAGGCTGTGAGTGTGCCCCAGGC
 CAACAGGGACACGCTAGCCTTCTCATGATCCACCTCCAGAGAGTGGCTCAGAGTCCGAGACTAAGATG
 GACGTTGTCAATCTGGCTAAAATCTTCGGCCCTACGATAGTTGCCACACTGTGCCCAATCCAGATCCAG
 TGACGATGTTCCAGGACATCAAACGCCAGCTCAAGGTGGTGGAGCGCCTGCTCTCTGCCCTGGAGTA
 CTGGAATCAGTTCATGATGGTGAACAAGAGAACATGGACTGCCACCGCGCAATGGGAGCTCAACACCA
 CGGACACCAGACATTAAGTGAAGCTTATGGGGCCTGTGACCCTCTGAATTCAGCTTGTCAAGACTC
 TTCATCAAATCCCTGTACAGAGATTGTACAACCTCTCCAAGAGCACACCCAGATTTGGGAACAAGAG
 CAAGTCTGCCACCAACTTAGGTCAACAGGGCAAATTTTTCCCTGCTCCGTACCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208476 representing NM_001108112
 Red=Cloning site Green=Tags(s)

MDTTMVNLWTLFEQLVRRLEIINEGNESIEFIQVVKDFEDFRKKQRTNQELEKFDLLKAETGRSALD
 VKLKHARNQVDVEIKRRQRAEAECAKLEQQIQLIRDILMCDTTGSIQLSEEQKSALAFNLRGQASSGNAG
 NNRLSTIDESGILSDISFDKTDSELDWSSLNFKMKKREKRRSSSRQFIDGPPGPVKKTCISGSTITDQ
 ANESIVAKTTVTVPDGGPIEAVSTIETLPCWTRSRGKSGPLQPVNSDSALNSRPLEPRTEIDAVGTPQN
 NGMRLHDFVSKTVIKPESCVPCGKRIKFKGLSLKCRDRLVSHPECRDRCLPCIPPLVGTVPKIGEGML
 ADFVQSQSPMIPAIIVVSCVNEIEQRGLTEAGLYRISGCDRTVKELKEKFLKVKTVPLLSKVDDIHAICSL
 LKDFLRNLKEPLLTFWLSKAFMEAAEITDEDNSTAAMYQAVSELPAQNRDTLAFLEMIHLQRVAQSPSTKM
 DVVNLAKIFGPTIVAHTVNPDPVTFMQDIKRLKVVVERLLSLPLEYWNQFMMVEQENMDCMRNGSSTP
 RTPDIKVSLLGPVTTPEFQLVKTPSSNSLSQRLYNLSKSTPRFGNKSATNLGQQGKFFPAPYLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001108112

ORF Size: 1878 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_001108112.1](#), [NP_001101582.1](#)

RefSeq Size: 2474 bp

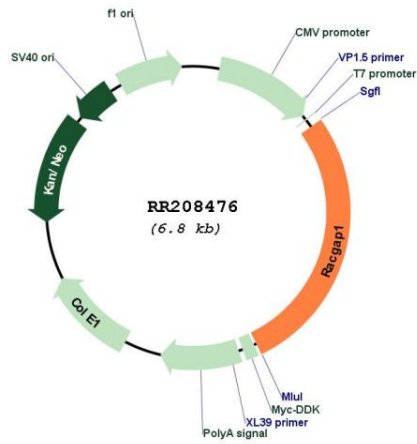
RefSeq ORF: 1881 bp

Locus ID: 315298

Cytogenetics: 7q36

MW: 69.9 kDa

Product images:



Circular map for RR208476