

Product datasheet for **RR215109**

Rasgrp4 (NM_130824) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp4 (NM_130824) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasgrp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR215109 representing NM_130824
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCGAAAGACATCAAAGGAAGTCTCATCAGGAATGCTCTGGGAAGGCAGGAGGGCATGGTCGGC
 CGAGACAGGCCCGCCGCCACAAGACGTGTCCACCCCGGAAATCAGCAAGGTCATGGCTTCCCTGAA
 CCTGGGCGTGCTGAGTGAGAGCAGCTGCAGTGTGGATGAGCTACTGGAGGAATGCATCCGGTGCTTTGAT
 TCAGCTGGCAGCTTACACCGAGGGGACCACATTCTCAAGATGGTGCTTACCATGCACAGCTGGGTGCTGC
 CATCCTCAGACCTTGCCGCCCGCTGCTGACTTCGTATCAGAAGGCTGCCAAAGATGCCCGGAGCTAAG
 ACAGCTACAGATCTGTTACCTGGTCAGGACTGGCTGACCCATCACCCCGAGGTAGTGCACCAGGAACCC
 CAGCTGGAAGCAATCATAAACCGGTTTTGGACCACTGTAGCTCAGGAGGGCAACATGGCCAAAGGAGCC
 TAGGAGATGCCTCCAATCTGCTGAGTCTGGAGGGCCCGTCCCCACCTCTCATGAGCAGCCAGGCCCT
 GGGCAAAAAGCGAAAGTGTCTTGTGTCGATCACCTGGAGACAGAGGAGCTGGCACAGCACCTTACT
 TACCTGGAGTTCGGTCTTCCAGGCCATCACGCCCAAGACCTGCGGGGCTATGTTTTGCAAGGGCTCGG
 TGAGAGGTTGCTCTGCTCTGGAAGGTTCTGTGGGTCTGAGCAACAGTGTGTCCCGCTGGGTACAGGTCAT
 GGTGCTGAGTCGTCTGGGCTGCGCAGCGTGCCAGGTAAGTGGACAAATTCATTGCTGTGGCACAGAGG
 CTTGCGCCAGATGCAGAATTTCAACACGCTGATGGCGGTACGGGGGGTCTGTGTCATAGCGCCATCTCCA
 GACTCAAGGACTCCCACGTCCATCTGAGCCCTGACAGCACTAAGGCCCTGCTGGAGCTGACAGAGCTTCT
 CTCTTCCACAACAACTATGCCTACTACCGCCGACCTGGGCCAGCTGCACTGACTTCCGGCTGCCAGTA
 CTGGGTGTTACCTCAAGGACCTGGTATCTCTGTATGAGGCCATCCAGACAGGTTGCCAGATGGCCGCC
 TGCACCTACCCAAGCTGAATAGCCTCTATCTACGGCTGCAGGAGCTGGCAGCACTCCAGAGACAGCATCC
 CCGGTGCAGTGCCAATGAGGACCTGCTACACCTGCTGACGCTCTCCCTGGATCTTCTACACGGAAGAT
 GAGATCTACGAGCTTTCTTATGCCCGGGAGCCAGTGTGCCAAGAGTCTGCCCTATCCCCCTCAAAG
 CGCCTGTGGTGTAGAGTGGGCCATGGTGTGACGCCAAAGCCAGACAGTGCAGCTCTGGGTGAGCATGT
 GGAACAGCTAGTGGAGTCCGTGTTCAAGAACTATGACCCAGAAGGCCATGGCTCTATTTCTGAGAGGAC
 TTTGAGAAGCTGTCAGCCAACCTCCCCTTGCCTGCCATGGGCTTCAACCCACCTCCCGCCACGGGAGTG
 GCTCCTCAGCAGAGAGGAGCTGACCAAGTATCTGCTCCATGCCAGCGCCATCTGCTCCAAGCTGGGCTT
 GGCTTTCTGCACGCCTTCCAGGAGTACCTTCCGCAAGCCACCTTCTGTACAGCTGCAACGGCTTC
 GTGAGCACTGGCCCTCTCTGGGCGTACCAAGCGAGGCTATCGCTGTCAGGACTGTGGGCTGTGTTGTC
 ACAGACTGCAGGGATCAAGTGAGAGTGGAGTGTAAAGAAGAGGCCAGAGACTAAAGGTGACCCGGTCC
 CCTGGCGCACCCGGGCCAGCCACCACTTCCCTACCGGCTGTGGCTCCGAGGAAGGTCCTCTCTAT
 ACACTCTCCCGCATCTGGAGTCTGGTTGCCACCTTACCATGCTTGGACTCAGACGGAGTCTCACACT
 TTCTCTGGGAGCCAGAGATGGTGCCTGCCAGCACCAGTTTTACCATCCAAAGTCTCTCAAAGTCCAG
 TGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215109 representing NM_130824
 Red=Cloning site Green=Tags(s)

MNRKDIKRKSHQECGKAGGHGRPRQARRHKTCTPTREISKVMASLNLGVLSESSCSVDELLEECIRCFD
 SAGSLHRGDHILKMVLTMHSWLPPSSDLAARLLTSYQKAAKDARELRQLQICYLVRYWLTHHPEVVHQEP
 QLEAIINRFWTTVAQEGNMAQRSLGDASNLLSPGGPGPPPLMSSPGLGKKRKYVSLFDHLETEELAQLT
 YLEFRSFQAITPQDLRGYVLQGSVRGCPALEGSVGLSNSVSRWVQVMVLSRPGPAQRAQVLDKFIKVAQR
 LRQMNFNTLMAVTGGLCHSAISRKDSHVHLSPDSTKALLELELLELSSHNNYAYRRTWASCTDFRLPV
 LGVHLKDLVSLYEAHPDRLPDGRLHLPKLNLSYLRLQELAAALQRQHPPCSANEDLLHLLTSLDLFYTED
 EIYELSYAREPRCPKSLPLSPFKAPVVVEWAHGVTPKPSATLGQHVQLVESVFKNYDPEGHGSISLED
 FEKLSANFPFACHGLHPPRHGSGSFSREELTKYLLHASAICSKLGLAFLHAFQEVTFRKPTFCHSCNGF
 VSTGPLWGVTKRGYRCQDCGLCCHRHRCDQVRVECKKRPETKGDPPGAPGAPATPLPPTGCGSEELSY
 TSPHLESGCHLHAWTQTESSHSSWPEMVPAPVLPKASSKSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

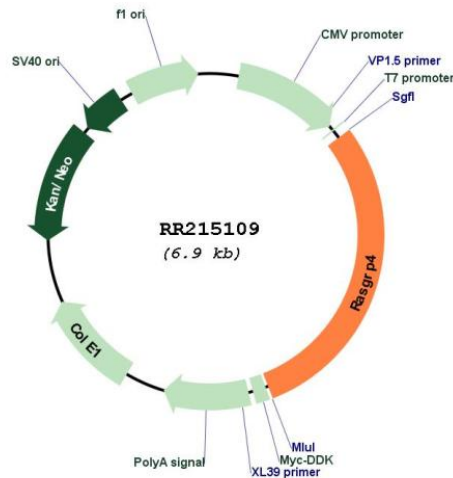
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_130824

ORF Size: 2034 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_130824.2](#), [NP_570837.2](#)

RefSeq Size: 2164 bp
RefSeq ORF: 2037 bp
Locus ID: 170668
UniProt ID: [Q8R5I4](#)
Cytogenetics: 1q21
MW: 75.4 kDa
Gene Summary: mast cell specific guanine exchange factor [RGD, Feb 2006]