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Product datasheet for MR225103

Rasgrp4 (NM_145149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp4 (NM_145149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasgrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR225103 representing NM_145149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCGGAAAGACATCAAAAGGAAGTCTCATCAGGAATGCTCTGGGAAGGCAGGAGGGCGGGGTCGGT
CACGTCAGGCCCGCCGCCACAAGACGTGCCCCACCCCCCGGGAAATCAGCAAGGTCATGGCGTCCATGAA
TCTGGGAGTGCTGAGTGAGAGCAGCTGCAGCGAAGATGAGCTATTGGAGGAATGTATCCGCTGCTTTGAC
TCGGCTGGCAGCCTGCGCCGAGGGGACCACATTCTCAAGATGGTGCTCACGATGCACAGCTGGGTGCTGC
CATCCTCAGAGCTCGCTGCCCGTCTGCTGACTTCGTATCAGAAGGCTGCCAAAGATGCCCAAGAGCTAAG
ACAGCTACAGATCTGTTACTTGGTCAGGTACTGGCTGACCCATCACCATGAGGCAGTGCACCAGGAACCC
CAGCTGGAAGCAGTCATAAGCCGGTTTTGGACCACTGTCGCTCAGGAGGGCAACATGGCCCAAAGGAGCC
TGGGAGATGCCTCCAGCCTGCTAAGTCCTGGAGGGCCCGGTCCCCCACCTCCCATGAGCAGCCCAGGCCT
GGGCAAGAAGCGGAAAGTGTCATTGCTATTCGATCACCTGGAGACAGAGGAGCTGGCACAACACCTCACT
TACCTGGAGTTCCGGTCTTTCCAGGCTATCACACCCCAAGACCTGCGGGGCTATGTTTTGCAGGGTTCAG
TGAGAGGTTGTCCAGCTCTGGAAGGTTCTGTGGGTCTGAGCAACAGTGTGTCCCGCTGGGTGCAGGTCAT
GGTGCTGAGTCGTCCTGGGCCTGCACAACGTGCCCAGGTCCTGGACAAATTCATTCGTGTGGCACAGAGG
CTTCACCAGCTGCAGAATTTCAACACACTGATGGCGGTCACGGGGGGTCTGTGTCATAGCGCCATCTCCA
GACTCAAGGACTCCCACGTTCATCTGAGCCCTGACAGCACAAAGGCCCTGCTGGAGCTGACAGAGCTCCT
CTCATCCCACAACAACTATGCCCACTACCGCCGCACCTGGGCCGGCTGTACTGGCTTCCGGCTGCCAGTA
CTGGGTGTGCACCTCAAGGACCTGGTATCTCTATATGAGGCTCATCCAGACAGATTGCCAGATGGCCGCC
TGCACCTACCCAAGCTGAATAGCCTCTATCTACGGCTGCAGGAGCTGATGGCGCTCCAGGGACAGCATCC
TCCCTGCAGTGCCAATGAGGACCTGCTGCACCTGCTGACGCTCTCCCTGGATCTCTTCTACACGGAAGAT
GAGATCTACGAGCTTTCTTATGCCCGGGAACCACGCTGTCCCAAGAGTCTGCCACCGTCCCCCTTCAAAG
CACCAGTGGTGGTAGAGTGGGCCCAGGGTGTGACACCAAAGCCAGACAGCGTGACTCTGGGTCAGCATGT
GGAACAGCTGGTGGAGTCCGTGTTCAAGAACTACGACCCAGAAGGCCGTGGCTCCATCTCTCTGGAGGAC
TTTGAGCGGCTGTCAGGCAACTTCCCGTTCGCCTGCCATGGGCTTCACCCACCTCCCCGCCATGGGAGTG
GCTCCTTCAGCAGAGAGGAGCTGACCAAGTACCTGCTCCATGCCAGTGCCATCTGCTCCAAGCTGGGCCT
GGCCTTCCTGCACGCCTTCCAGGAGGTCACCTTCCGAAAGCCCACGTTCTGTCACAGCTGCAGCGGCTTC
CTCTGGGGGGTCACCAAGCAAGGCTATCGCTGTCGGGACTGTGGGCTGTGTTGTCACAGACACTGCAGGG
ATCAAGTGAGAGTGGAGTGTAAGAAGAGGCCAGAGACTAAGGGTGACCCGGGCCCCCCAGGTGCACCTGT
GCCAGCCACATCACTTCCTCCTGCCAACTGTGGCTCAGAGGAAAGTCTCTCCTATACACTCTCCCCGGAT
CCGGAGTCTGGTTGCCACCTTCGCCATGCTTGGACCCAGACGGAATCCTCACACTCTTCCTGGGAGCCAG
AGGTGGTGCCCTGCCCAGCACGGGTCTTACCATCCAGAGCTTCCTCGAAGCCCAGCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

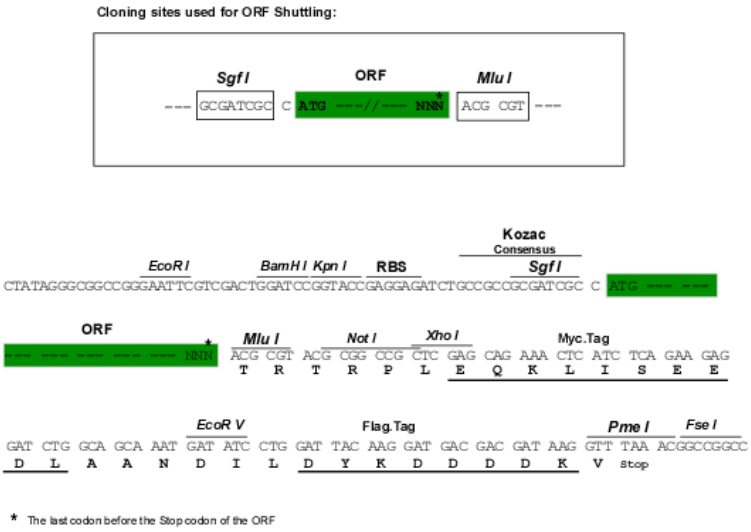
>MR225103 representing NM_145149
Red=Cloning site Green=Tags(s)

MNRKDIKRKSHQECSGKAGGRGRSRQARRHKTCPTPREISKVMASMNLGVLSESSCSEDELLEECIRCFD
SAGSLRRGDHILKMVLTMHSWVLPSSELAARLLTSYQKAAKDAQELRQLQICYLVRYWLTHHHEAVHQEP
QLEAVISRFWTTVAQEGNMAQRSLGDASSLLSPGGPGPPPPMSSPGLGKKRKVSLLFDHLETEELAQHLT
YLEFRSFQAITPQDLRGYVLQGSVRGCPALEGSVGLSNSVSRWVQVMVLSRPGPAQRAQVLDKFIRVAQR
LHQLQNFNTLMAVTGGLCHSAISRLKDSHVHLSPDSTKALLELTELLSSHNNYAHYRRTWAGCTGFRLPV
LGVHLKDLVSLYEAHPDRLPDGRLHLPKLNSLYLRLQELMALQGQHPPCSANEDLLHLLTLSLDLFYTED
EIYELSYAREPRCPKSLPPSPFKAPVVVEWAQGVTPKPDSVTLGQHVEQLVESVFKNYDPEGRGSISLED
FERLSGNFPFACHGLHPPPRHGSGSFSREELTKYLLHASAICSKLGLAFLHAFQEVTFRKPTFCHSCSGF
LWGVTKQGYRCRDCGLCCHRHCRDQVRVECKKRPETKGDPGPPGAPVPATSLPPANCGSEESLSYTLSPD
PESGCHLRHAWTQTESSHSSWEPEVVPCPARVLPSRASSKPSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_145149

ORF Size: 2019 bp

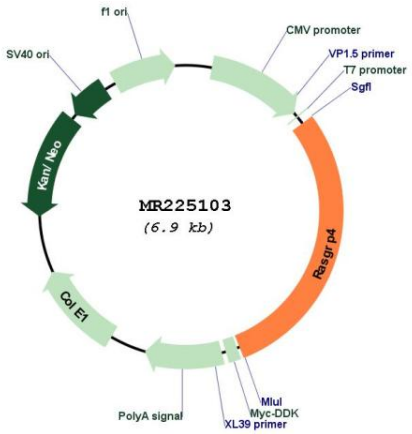
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_145149.4, NP_660131.2
RefSeq Size:	4621 bp
RefSeq ORF:	2022 bp
Locus ID:	233046
UniProt ID:	Q8BTM9
Cytogenetics:	7 B1
MW:	75.4 kDa
Gene Summary:	Functions as a cation- and diacylglycerol (DAG)-regulated nucleotide exchange factor activating Ras through the exchange of bound GDP for GTP. May function in mast cells differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225103