

Product datasheet for **RC228493**

RASGRP 4 (RASGRP4) (NM_001146204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGRP 4 (RASGRP4) (NM_001146204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASGRP 4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228493 representing NM_001146204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAGAAAAGACAGTAAGAGGAAGTCCCACCAGGAATGCACCGGAAAAATAGGAGGGCGAGGCCGGC
 CCCGCCAAGTGCGCCGCCACAAGACATGCCCCAGCCCTCGGAAAATCAGCAAGGTCATGGCTTCCATGAA
 CCTGGGCCTGCTGAGTGAGGGCGGCTGCAGCGAAGATGAGCTGCTGGAGAAATGCATCCAGTCTTCGAT
 TCAGCTGGCAGCCTGTGCCACGAGGACCACATGCTCAACATGGTCTGGCCATGCACAGCTGGGTGCTGC
 CGTCCGCCGACCTGGCTGCCCGCTGCTGACCTCATACCAGAAGGCCACAGGGGACACCCAGGAGCTGAG
 ACGGCTGCAGATCTGTCACCTGGTCAGGTAAGTGGCTGATGCGACACCCTGAGGTGATGCACCAGGATCCC
 CAGCTAGAAGAAGTCATAGGTCGTTTCTGGCCACCGTGGCCCGGAGGGCAACTCAGCCAGAGAAGAC
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 GGGCAAAAAGCGAAAGTGTCTTGGCTTTTCGACCACTTGAGAGCGGGGAGCTGGCTCAGCACCTCACC
 TACCTGGAGTTCGGTCTTCCAGGCTATCACGCCCCAGGACCTGCGGAGCTACGTTTTGACGGGCTCAG
 TACGAGGCTGCCCGCCCTGGAGGGCTCCGTAGGTCTCAGCAACAGCGTGTCCCGCTGGGTGCAGGTGAT
 GGTGCTGAGCCGTCCCGGCCCTACAGCGTGCACAGGTGCTGGACAAGTTCATTACGTGGCACAGAGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC228493 representing NM_001146204
 Red=Cloning site Green=Tags(s)

MNRKDSKRKSHQECTGKIGGRGRPRQVRRHKTCPSPREISKVMASMNLLGLLSEGGCSEDELLEKCIQSF
 SAGSLCHEDHMLNMVLAHMSWVLPADLAARLLTSYQKATGDTQELRRLQIHLVRYWLMRHPEVMHQDP
 QLEEVIGRFWATVAREGNSAQRRLGDSSDLLSPGGPPLPMSSPGLGKKRKVSLFLDHLETGELAQLHT
 YLEFRSFQAITPQDLRSYVLQGSVRGCPALEGSVGLSNSVSRWVQVMVLSRPGPLQRAQVLDKFIHVAQR
 LHQLQNFNTLMAVTGGLCHSAISRLKDSHAHLSPDSTKELVALQGQHPPCSANEDLLHLLTSLDLFYTE
 DEIYELSYAREPRCPKSLPPSPFNAPLVVEWAPGVTPKPDVTLGRHVEQLVESVFKNYDPEGRGTISQE
 DFERLSGNFPFACHLHPPPRQGRGFSREELTGyllRASAIcSKLGLAFLHTFHEVTFRKPTFCDS CSG
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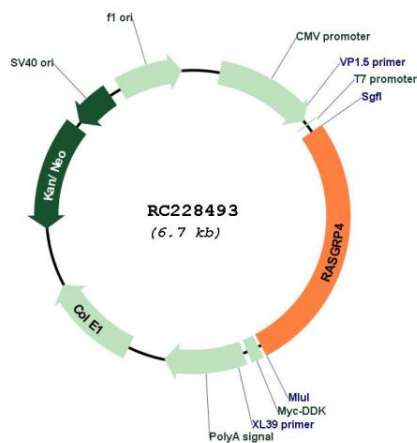
Chromatograms:

https://cdn.origene.com/chromatograms/mk8069_d06.zip

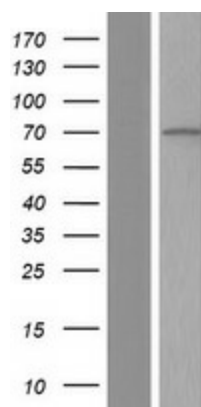
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway
MW:	66.8 kDa

Gene Summary: The protein encoded by this gene is a member of the Ras guanyl nucleotide-releasing protein (RasGRP) family of Ras guanine nucleotide exchange factors. It contains a Ras exchange motif, a diacylglycerol-binding domain, and two calcium-binding EF hands. This protein was shown to activate H-Ras in a cation-dependent manner in vitro. Expression of this protein in myeloid cell lines was found to be correlated with elevated level of activated RAS protein, and the RAS activation can be greatly enhanced by phorbol ester treatment, which suggested a role of this protein in diacylglycerol regulated cell signaling pathways. Studies of a mast cell leukemia cell line expressing substantial amounts of abnormal transcripts of this gene indicated that this gene may play an important role in the final stages of mast cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RC228493



Western blot validation of overexpression lysate (Cat# [LY431521]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228493 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).