

Product datasheet for **RC238429**

RASGEF1B (NM_001300735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGEF1B (NM_001300735) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASGEF1B
Synonyms:	GPIG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC238429 representing NM_001300735
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCAGACTCCTCCCTTTTCAGCAATGTTTGACAGCAGTGGTTACAATCGAAACCTCTATCAGTCTG
 CAGAGGACAGCTGTGGAGGGTGTATTACCATGACAACAACCTCCTCTGGATCCCTGGAAGCACTCAT
 CCAGCACTTAGTACCTAATGTGGATTACTATCCAGATAGAACATACATATTTACCTTCTACTCAGTTCT
 CGGTTATTTATGCATCCGTATGAGCTAATGGCCAAAGTTTGCCACTTATGTGTTGAGCACCAGAGACTAA
 GTGATCCTGATAGTGATAAGAACCAGATGAGAAAAATTGCACCCAAAAATCCTTCAACTCCTCACGGAATG
 GACGGAACATTTCCCTATGATTTTCGGGATGAAAGAATGATGAGAACTTAAAAGATCTGGCTCACCGA
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 CTGCGCTCAGCCAGTACGAAGAAGTCTGGCAAAAATCAGCTCCACATCCACAGATCGGCTCACAGTTCT
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 CAGCTGACTCATATAGAGCTGGAGAGGCTCAATTATTTGGGCCAGAAGAATTTGTTTCAGGCGTTCTGTG
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 CGAGCAAGAATGATTGAGTATTTTATTGACGTAGCTCGGGAGTGTTTTAACTTGGCAACTTCAACTCCT
 TGATGGCGATAATCTCTGGTATGAATATGAGCCAGTCTCTCGACTAAAAAACTTGGGCCAAAGTGAA
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 TTTGAGAGGGACCGAAGATCTTGCAGTATCTGCTCACAGTACCAGTCTTCAAGTGAAGATGCTCTACT
 TGGCTTCTATGAGAGTGAAGGACCTGAAAATCATATAGAGAAAGACAGATGGAAGTCTTTAAGGTGCGAG
 CCTCTTAGGCAGAGTT

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

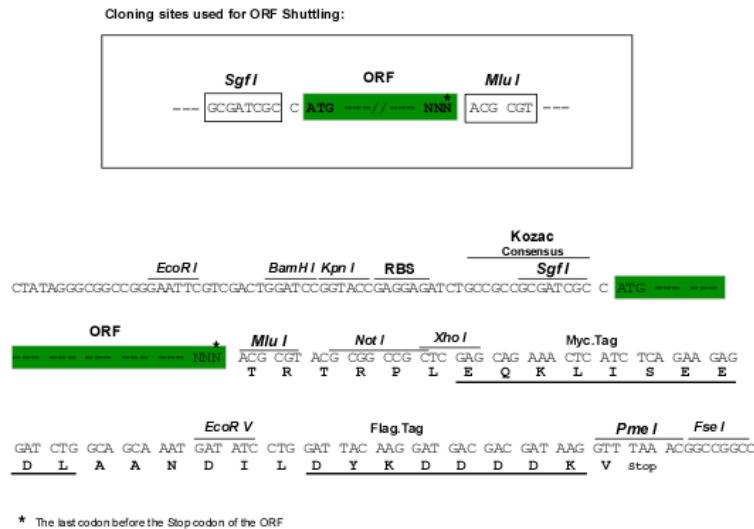
>RC238429 representing NM_001300735
 Red=Cloning site Green=Tags(s)

MPQTTPFSAMFDSSGYNRNLYQSAEDSCGLYYHDNLLSGSLEALIQHLVNPVYYPDRTYIFTFLLSS
 RLFMHPYELMAKVCHLCVEHQRLSDPDSKQMRKIAPKILQLL TEWTE TFPYDFRDERMMRNLKDLAHR
 IASGEETYRKNVQMMQCLIRKLAALSQYEEVLAKISSTSDRLTVLTKPQSIQRDIITVCNDPYTLAQ
 QLTHIELERLNYIGPEEFVQAFVQKPLDNDKSCYSERKKTRNLEAYVEWFNRLSYLVATEICMPVKKKH
 RARMIEYFIDVARECFNIGFNSLMAIISGMNMPVSRLLKKTWAKVKTAKFDILEHQMDPSSNFYNYRTA
 LRGAAQRSLTAHSSREKIVIPFFSLLIKDIYFLNEGCANRPNGHVNFKFWELAKQVSEFMTWKQVECP
 FERDRKILQYLLTVPVFS DALYLASYESEGPENHIEKDRWKSRLRSSLLGRV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001300735

ORF Size: 1416 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_001300735.2](#)

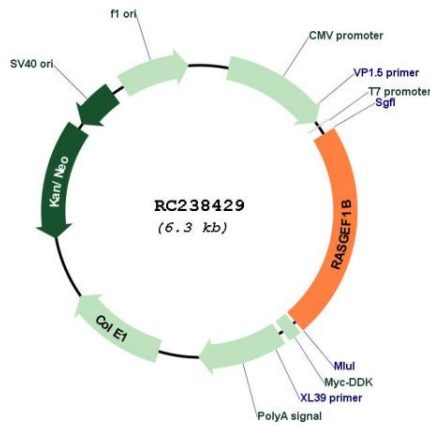
RefSeq Size: 2959 bp

RefSeq ORF: 1419 bp

Locus ID: 153020

UniProt ID: [Q0VAM2](#)
Cytogenetics: 4q21.21
MW: 55.7 kDa
Gene Summary: Guanine nucleotide exchange factor (GEF) with specificity for RAP2A, it doesn't seem to activate other Ras family proteins (in vitro).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238429