

Product datasheet for **RC238522**

RASGEF1A (NM_001282862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RASGEF1A
Synonyms:	CG4853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC238522 representing NM_001282862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTCTGGAGCCCCAGGAACTATGCCCGAGACGTCGGTTGTCTTCTCCAGCATCCTTGGGCCAGCT
 GTAGCGGACAGGTGCAGCCTGGCATGGGGAGCGTGGAGGCGGGGCCGGTGGCGGCTCCGGGGACCTCAT
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 TATTACCCGATAGGACGTACATCTTACCTTTCTCTGAGCTCCCGGGTCTTTATGCCCCCTCATGACC
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 GCTGAAGTCTTTCTCAGCCAAGATCGTGCAGCTCCTGAAGGAGTGGACCGAGGCCTTCCCTATGACTTC
 CAGGATGAGAAGGCCATGGCCGAGCTGAAAGCCATCACACACCGTGTACCCAGTGTGATGAGGAGAATG
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 CCAGGAAGTCCGAGAGAAGCTCCGGCCACCGGCTGTAGACAAGGGGCCCATCCTCAAGACCAAGCCACCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC238522 representing NM_001282862
 Red=Cloning site Green=Tags(s)

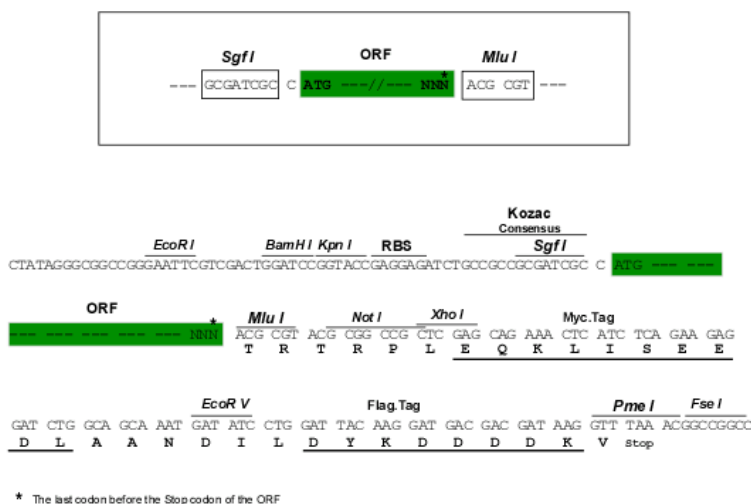
MFLEPQETMPQTSVVFSSILGPSCSGVQPGMGERGGGAGGSGDLIFQDGHLSGSLEALMEHLVPTVD
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 QDEKAMAEKAIATHRVTCDEENGTVKKAIAQMTQSLLLSLAARSQLELREKLRPAPVDKGPILKTKPP
 AAQKDILGVCCDPLVLAQQLTHIELDRVSSIYPEDLMQIVSHMDSLNDHRCRDLTKTYSLEAYDNWFC
 LSMLVATEVCRVVKKKHRTMLEFFIDVARECFNIGNFNSMMAIISGMNLSVARLKKTKWSKVTAKFDV
 LEHMDPSSNFCNYRTALQGATQRSQMANSREKIVIPVFNLFVKDIYFLHKIHTNHLNPGHINFKKFWE
 ISRQIHEFMTWTQVECFEKDKKIQSYLLTAPIYSEEALFVASFESEGPENHMEKDSWKTLLRNLRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001282862

ORF Size: 1467 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.

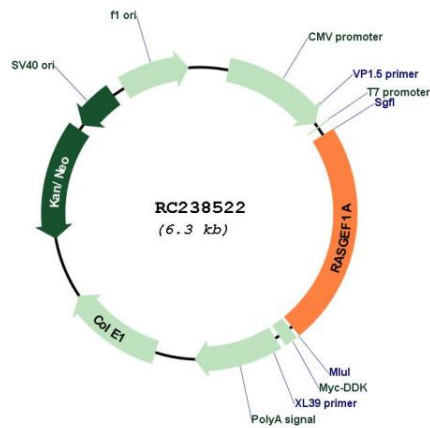
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22µm filter is required.

RefSeq: [NM_001282862.1](#), [NP_001269791.1](#)

RefSeq Size: 3271 bp

RefSeq ORF:	1470 bp
Locus ID:	221002
UniProt ID:	Q8N9B8
Cytogenetics:	10q11.21
MW:	56 kDa
Gene Summary:	Guanine nucleotide exchange factor (GEF) with specificity for RAP2A, KRAS, HRAS, and NRAS (in vitro). Plays a role in cell migration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238522