

Product datasheet for **SC317802**

RASGEF1A (NM_145313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGEF1A (NM_145313) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGEF1A
Synonyms:	CG4853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC317802 representing NM_145313.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCCAGACGTCCTTGTCTTCTCCAGCATCTTGGGCCAGCTGTAGCGGACAGGTGCAGCCTGGC
ATGGGGGAGCGTGGAGGCGGGCCGGTGGCGGCTCCGGGGACCTCATCTTCCAAGATGGACACCTCATC
TCTGGGTCCCTGGAGGCCCTGATGGAGCACCTTGTCCACGGTGGACTATTACCCGATAGGACGTAC
ATCTTCACCTTTCTCCTGAGCTCCCGGGTCTTTATGCCCCCTCATGACCTGCTGGCCCGCTGGGGCAG
ATCTGCGTGGAGCAGAAGCAGCAGCTGGAAGCCGGGCTGAAAAGGCCAAGCTGAAGTCTTTCTCAGCC
AAGATCGTGCAGCTCCTGAAGGAGTGGACCGAGGCCTTCCCTATGACTTCCAGGATGAGAAGGCCATG
GCCGAGCTGAAAGCCATCACACACCGTGTACCCAGTGTGATGAGGAGAATGGCACAGTGAAGAAGGCC
ATTGCCAGATGACACAGAGCCTGTTGCTGCTTGGCTGCCCGAGCCAGCTCCAGGAAGTGCAGAGAG
AAGCTCCGGCCACCGGCTGTAGACAAGGGGCCATCCTCAAGACCAAGCCACCAGCCGCCAGAAGGAC
ATCCTGGGCGTGTGCTGCGACCCCTGGTGTGGCCAGCAGCTGACTCACATTGAGCTGGACAGGGTC
AGCAGCATTTACCTGAGGACTTGATGCAGATCGTCAGCCACATGGAATCCTGGACAACACAGGTGC
CGAGGGGACCTGACCAAGACCTACAGCCTGGAGGCCTATGACAATGGTTCAACTGCCTGAGCATGCTG
GTGGCCACTGAGGTGTGCCGGTGGTGAAGAAGAAACACCGGACCCGATGTTGGAGTCTTCTATTGAT
GTGGCCCGGGAGTGCTTCAACATCGGGAACCTCACTCCATGATGGCCATCATCTCTGGCATGAACCTC
AGTCTGTGGCAAGGCTGAAGAAAATTGGTCCAAGGTCAAGACAGCCAAGTTTGATGTCTTGGAGCAT
CACATGGACCCGTCCAGCAACTTCTGCACTACCGTACAGCCCTGCAGGGGGCCACGCAGAGGTCCCAG
ATGGCCAACAGCAGCCGTGAAAAGATCGTCATCCCTGTGTCAACCTCTTCGTTAAGGACATCTACTTC
CTGCACAAAATCCATACCAACCACCTGCCCAACGGGCACATTAACCTTAAGAAATTCTGGGAGATCTCC
AGACAGATCCATGAGTTTATGACATGGACACAGGTAGAGTGTCTTTCGAGAAGGACAAGAAGATTGAG
AGTTACCTGCTCACGGCGCCATCTACAGCGAGGAAGCTCTCTTCGTCGCTCCTTTGAAAGTGAGGGT
CCCAGAACACATGAAAAAGACAGCTGGAAGACCCTCAGGACCACCCTTCTGAACAGAGCCGTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_145313

Insert Size: 1446 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_145313.3</u>
RefSeq Size:	3243 bp
RefSeq ORF:	1446 bp
Locus ID:	221002
UniProt ID:	<u>Q8N9B8</u>
Cytogenetics:	10q11.21
MW:	54.6 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] Transcript Variant: This variant (2) uses an alternate 5' terminal exon and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.