

Product datasheet for SC315292

RASGRF2 (NM_006909) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGRF2 (NM_006909) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGRF2
Synonyms:	GRF2; RAS-GRF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006909 edited
GAGGCAGGGGTGAGACCGCGGCCACCCGTGAGCCCTCCGACCCGCACCATGCAGAAGA
GCGTGCGCTACAACGAGGGGCACGCCCTGTACCTGGCCTTTCTGGCGCGCAAGGAGGGCA
CCAAGCGCGGCTTCTGAGTAAGAAGACGGCCGAGGCGAGCCGCTGGCAGGAGAAGTGGT
TCGCCCTTACCAGAATGTGCTTCTACTTTCGAGGGCGAGCAGAGCTGCCGCCCGCGG
GCATGTACCTCCTGGAGGGCTGCAGCTGCGAACGAACGCCCGCGCACCCAGGGCCGGCG
CCGGGCAGGGAGGCGTCCGAGACGCGCTGGACAAGCAGTATTACTTTACTGTTCTTTTTG
GCCATGAAGGTCAGAAGCCACTGGAGCTGCGCTGTGAGGAGGAGCAGGATGGTAAAGAGT
GGATGGAGGCCATTCACCAAGCCAGTTATGCAGACATTTTGATTGAGAGGGAAGTATTAA
TGCAGAAGTACATTCATCTAGTTCAGATCGTAGAGACAGAAAAAATTGCAGCTAACCAAC
TCCGACATCAACTTGAAGATCAAGACACAGAAATCGAAAAGGCTTAAATCAGAGATTATTG
CTCTTAATAAAAACCAAAGAACGAATGCGACCTTACCAAAGCAACCAAGAAGACGAAGATC
CAGACATCAAGAAGATTA AAAAGGTTTCAGAGCTTCATGCGAGGATGGTTGTGCAGAAGGA
AATGGAAGACCATCGTGCAGGATTACATTTGTTCTCCTCATGCTGAAAGTATGAGGAAGA
GAAACCAGATTGTGTTCCACCATGGTGGAGGCAGAGTCAGAGTACGTTCCACCAGCTTACA
TCCTGGTCAATGGCTTTCTCCGGCCCTGCGTATGGCCGCCAGCTCCAAGAAGCCCCCA
TCAGCCACGACGACGTCAGCAGTATTTTTCTTAACAGTGAACAATCATGTTTCTTCATG
AAATATTTTCATCAAGGACTAAAGGCAAGGATAGCAAATGGCCCACTTTAATTTTAGCTG
ATCTGTTTGATATTTTGCTCCCATGCTGAACATTTATCAAGAATTTGTGCGTAATCACC
AGTACAGCTGCAAGTTCTCGCCAATTGTAAAGCAAACAGAGATTTTGACAAACTCTTAA
AACAGTATGAAGCCAATCCAGCCTGTGAGGGGAGGATGCTGGAGACATTTGACCTATC
CCATGTTTCAGATCCCCAGATATATCATCACACTCCATGAGCTCCTTGCTCACACACCCC
ATGAGCATGTGGAAGGAAAAGCCTGGAGTTTGCCAAATCAAAGCTAGAGGAACTATCCA
GAGTAATGCACGATGAAGTCAGCGACACTGAAAACATAAGGAAAAACCTTGCCATCGAAA
GAATGATCGTGGAGGGCTGTGACATCTTGCTGGACACCAGCCAAACGTTTCATCCGCCAAG
GTTCTCTTATTCAAGTACCTTCCGTTGAGAGGGGAAAACCTTAGTAAAGTTCGCTGGGTT
CGTTGTCTTTGAAAAGGAAGGAGAGACAATGCTTCTTATTTACAAAACACTTTTTAA



[View online »](#)

TATGTACAAGAAGTTCAGGAGGGAAGCTTCATCTGCTCAAGACAGGTGGGGTTCTGTCTC
 TAATAGACTGCACATTGATTGAGGAGCCAGATGCAAGCGATGATGACTCTAAAGTTCTG
 GGCAAGTGTGGGCACCTGGATTTTAAATAGTGGTGGAGCCTCCTGACGCTGCCGCT
 TCACTGTTGTCTTGTAGCACCCACGCCAGGAGAAAGCTGCCTGGATGAGTGACATCA
 GTCAGTGTGTGGACAATACGATGTAATGGTTTAACTACTAGTGTGTTGAAGAGAATT
 CCAAAGTCACTGTGCCACATATGATTAAGTCTGATGCCCGTCTTCATAAAGACGACACTG
 ACATTTGCTTCAGTAAAACACTCAACTCCTGCAAAGTGCCCGAGATCCGTTATGCCAGCG
 TGGAGCGCCTCTTGGAAAGACTGACAGACTTGGCGTTTCTTAGTATTGATTTCTCAACA
 CCTTTCTGCACACCTATCGTATTTTCACTACTGCCGCTGTGGTGTGGGAAACTCTCCG
 ACATATACAAGAGGCCTTTCACCTCCATCCCTGTCAGGTCATTGGAATTGTTTTTGTCTA
 CCAGCCAGAACAACAGAGGTGAACATTTGGTGGATGGCAAATCCCACGCTCTGTGTGCA
 AATTCTCTTCCCCGCCACTGGCTGTGTCCAGAACATCTTCCCAGTGAGGGCCAGAA
 AGCTGTCTTTGACTTCTCCCTTGAAGTCAAAGATAGGAGCATTGGACCTGACAATTCCA
 GCAGTCCCACCACCACCAGAGTCCCGCTGCGTCTCCACCACCACACTGGTCAGA
 TACCCTGGATCTCAGCAGAGGCTCTCTTCTCCAGAGCAAAGCCGGGAACGGTAGAAG
 AGAATGTCGATAACCCACGCGTGGATCTGTGTAACAAGCTAAAACGAAGTATCAAAAAG
 CAGTCTAGAGTCTGCACCAGCGGACCGAGCAGGAGTGGAAAGCTCCCCTGCAGCGGACA
 CCACAGAACTTTACCTTGCAGATCCCCCTCAACTCCTCGGCACCTCCGCTATCGACAGC
 CTGGAGGACAGACGGCGGACAATGCCCACTGCTCTGTTTACCAGGCTTCTGCTTTTGCA
 TAGCCACAGCTGCAGCAGGACATGGGAGTCCACCAGGCTTTAACAACACCAGAGAACAT
 GTGATAAAGAGTTTATTACGGAGAACGGCTACCAATCGAGTTCTGAACGTCTCCGCTC
 ACTGGGTCTCAAAGCACGCACAGGATTTGCAACTCAACAATGAACTAAAGATGAATGTCC
 TAAATTTGCTAGAAGAAGTTTTGCGAGACCCAGACCTTCTTCCCAAGAAAGGAAAGCCG
 CCGCGAATATCCTCAGGGCCCTTTCACAAGATGACCAAGATGACATCCACCTAAAATTAG
 AGGATATAAATCAAATGACTGACTGCATGAAGGCCGAATGCTTTGAGTCTTGTGCGCCA
 TGGAGCTGGCAGAACAGATCACCTCCTGGACCATGTCATTTTTCAGAAGCATTCCCTACG
 AGGAGTTTCTTGGGCAGGGTGGATGAAGCTGGATAAAAACGAAAGAAGTCTTACATTA
 TGAAAACCAGCCAACACTTCAATGACATGAGTAACCTGGTGGCCTCCAGATAATGAACT
 ATGCTGATGTCAGTCCCGTGCCAACGCCATCGAGAAATGGGTGGCAGTGGCGGACATCT
 GCCGATGCTGCACAACACAACGGCGTCTGGAGATCACCTCGGCTTAAACAGAAGTG
 CCATCTACAGGCTGAAGAAAACCTGGGCCAAGGTCTCTAAGCAGACAAAAGCTCTAATGG
 ACAAACTTCAAAAAGACTGTTTCTCTGAAGGAAGATTTAAAATCTTAGAGAAACCTTA
 AAAATTGTAACCCTCCTGCAGTTCTTATCTTGGGATGTACTTGACAGACCTGGCATTTA
 TTGAAGAAGGAACACAACTTTACTGAGGAAGGCCTTGTCAATTTCTCCAAAATGAGAA
 TGATATCACACATCATCAGAGAGATACGCCAGTCCAGCAGACTTCTACAGAATAGATC
 ATCAGCCAAAGGTGCGACAGTACTTGTGACAAAAGACCTTATCATAGATGAAGATACGC
 TATATGAGCTGCTACTAAAATGAACTCGACTCCCTGCTTGAAGATCTGGCCTTGCC
 CTGAGTCCACGGGATGTTTCATGGAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_006909
- Insert Size:** 3800 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_006909.1.

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:	<ol style="list-style-type: none">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_006909.1 , NP_008840.1
RefSeq Size:	4078 bp
RefSeq ORF:	3714 bp
Locus ID:	5924
UniProt ID:	O14827
Cytogenetics:	5q14.1
Protein Pathways:	MAPK signaling pathway
Gene Summary:	RAS GTPases cycle between an inactive GDP-bound state and an active GTP-bound state. This gene encodes a calcium-regulated nucleotide exchange factor activating both RAS and RAS-related protein, RAC1, through the exchange of bound GDP for GTP, thereby, coordinating the signaling of distinct mitogen-activated protein kinase pathways. [provided by RefSeq, Oct 2011]