

Product datasheet for **SC327632**

RASGRP3 (NM_015376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGRP3 (NM_015376) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGRP3
Synonyms:	GRP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015376, the custom clone sequence may differ by one or more nucleotides

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ATGGGATCAAGTGGCCTTGGGAAAGCAGCAACATTAGATGAACTGCTGTGCACTTGCATT
GAGATGTTGATGACAATGGAGAGCTGGATAATAGTTATTTGCCAAGAATAGTTCTACTG
ATGCACCGATGGTATTTATCTCCACTGAATTGGCAGAAAACTCTCTGCATGTATCGA
AATGCCACTGGAGAAAGCTGCAATGAATTCGATTAAGATCTGCTACTCATGAGGTAC
TGGATTCTGAAGTTTCTGCAGAGTTTAATTTGGATCTTGGTTTGATTTCGTATGACTGAG
GAATTTCCGGGAAGTAGCTAGTCAACTAGGATATGAAAAACAGTCAGCCTCATCGACATA
TCCAGCATTCTTCTATGACTGGATGAGAAGAGTCACACAGAGGAAAAAAGTATCCAAG
AAGGAAAAAGCCTGTCTGCTGTTTGACCATCTGGAGCCCATTGAATTGGCTGAGCACCTC
ACTTTTCTGGAGCATAAATCTTTTAGAAGGATCTCATTCACTGATTACCAAAGCTATGTC
ATCCATGGCTGCCTGGAGAATAATCCAACCTTGGAAAGATCGATTGCTTTATTTAATGGA
ATCTCTAAGTGGTCCAGTTGATGGTTCTTAGCAAACCAACCCCCAGCAAAGGGCAGAA
GTCATCACAAAGTTTATCAATGTTGCAAAGAAGCTCCTTCAGCTCAAAAATTTAACACC
CTGATGGCAGTGGTGGGAGGCCTCAGTCATAGTCCATTTACGCCTCAAAGAGACCCAT
TCTCATCTTTCTCAGAAGTTACAAAGAAGCTGGAATGAAATGACAGAGTTGGTCTCCTCC
AACGGCAATTACTGCAATTACCGCAAGGCCTTTGCCGACTGCGATGGCTTCAAAAATCCCC
ATCCTTGGAGTACACTTGAAAGACTTGATAGCTGTCCATGTCAATTTCCAGACTGGACA
GAGGAGAACAAAGTGAACATTGTGAAAATGCACCAGCTCTCCGTTACCCTGAGTGAACATA
GTCTCCCTGCAGAATGCCTCTCACCCTTAGAACCCAACATGGATTTGATCAACCTGCTC
ACGCTTCCCTGGACCTCTATCACACTGAAGATGATATTTACAACTGTCAGTGGTGCTG
GAGCCTAGAAAATTCTAAATCGCTACCTCCCCTACGACGCCCAACAAGCCTGTGGTACCC
CTGGAGTGGGCATTAGGGGTGATGCCAAAGCCAGACCCACGGTCATCAACAAGCACATA
AGGAAATTAGTGGAGTCTGTATTTAGAAACTATGATCACGACCATGATGGGTACATTTCC
CAAGAGGACTTTGAAAGTATAGCTGCCAATTTTCCCTTCTGGATTCTTCTGTGTTCTG
GACAAAGATCAGGATGGCCTAATTAGTAAAGATGAAATGATGGCTTACTTCTGAGAGCT
AAATCCCAACTACACTGTAAAATGGGACCAGGATTTATCCATAATTTTCAGGAGATGACC
TATCTCAAGCCAACCTTCTGCGAACACTGTGCGGGATTCTCTGGGGCATAATCAAGCAA
GGATACAAATGCAAAGACTGTGGAGCCAATTGTCACAAACAGTGCAAAGACCTCTGGTT
CTGGCTGCAGGAGATTTGCCCGGGCCCTCCTTGAGCAGTGGTCATGGGTCACTGCCT
GGAAGCCCTCGCTGCCCCAGCGCAGGATGAGGTGTTTGAATCCCTGGAGTCACTGCT
GGACACAGGGATTTAGACAGCAGAGCCATCACACTGGTTACAGGCTCTTCTCGCAAGATC
TCTGTGAGGCTACAGAGGGCCACCACCAGCCAGGCCACCCAGACTGAACCTGTCTGGTCA
GAGGCTGGCTGGGGGGACTCGGGGTCCCACACCTTCCCTAAAAATGAAATCCAAGTTCCAT
GACAAAGCAGCAAAGGACAAAGGCTTTGCCAAATGGGAAAATGAGAAGCCAGGGTGCAT
GCTGGTGTGGATGTTGTAGACCGGGGCACGGAGTTTGAACCTGACCAGGATGAAGGAGAA
GAGACCAGACAGGATGGTGGATGGC

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Restriction Sites: Please inquire

ACCN: NM_015376

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:	<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:	<u>NM_015376.2</u> , <u>NP_056191.1</u>
RefSeq Size:	4353 bp
RefSeq ORF:	2070 bp
Locus ID:	25780
UniProt ID:	<u>Q8IV61</u>
Cytogenetics:	2p22.3
Domains:	RasGEFN, RasGEF, EFh, DAG_PE-bind
Protein Pathways:	B cell receptor signaling pathway, MAPK signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a guanine nucleotide exchange factor that activates the oncogenes HRAS and RAP1A. Defects in this gene have been associated with systemic lupus erythematosus and several cancers. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame acceptor splice site at an internal coding exon compared to variant 1. This results in an isoform (2) which is 1 aa shorter than isoform 1. Variants 3 and 7-10 all encode the same isoform (2).</p>