

Product datasheet for **SC116963**

RAC3 (NM_005052) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAC3 (NM_005052) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAC3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116963 sequence for NM_005052 edited (data generated by NextGen Sequencing)

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ATGCAGGCCATCAAGTGCCTGGTGGTCGGCGACGGCGCCGTGGGGAAGACATGCTTGCTG
ATCAGCTACACGACCAACGCCTTCCCCGAGAGTACATCCCCACCGTTTTTGACAACTAC
TCTGCCAACGTGATGGTGGACGGGAAACCAAGTCAACTTGGGGCTGTGGGACACAGCGGGT
CAGGAGGACTACGATCGGCTGCGGCCACTCTCCTACCCCAAACCTGACGTCTTTCTGATC
TGCTTCTCTCTGGTGAGCCCGGCCTCCTTCGAGAATGTTTCGTGCCAAGTGGTACCCGGAG
GTGCGGCACCACTGCCCCACACGCCATCCTCCTGGTGGGCACCAAGCTGGACCTCCGC
GACGACAAGGACACCATTGAGCGGCTGCGGGACAAGAAGCTGGCACCCATCACCTACCA
CAGGGCCTGGCCATGGCCCGGGAGATTGGCTCTGTGAAATACCTGGAGTGCTCAGCCCTG
ACCCAGCGGGGCCTGAAGACAGTGGTTGACGAGGCGATCCGCGCGGTGCTCTGCCGCCC
CCAGTGAAGAAGCCGGGAAGAAGTGCACCGTCTTCTAG
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Clone variation with respect to NM_005052.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005052 unedited</p> <pre> NGGTCACATTTGTATACGACTCACTATAGGCGGCCGCAATTGCGACGAGGGCCGCTGCG GCGCCGGGCATTTCTCCGCAGCTCGGCTCGCGGCCGCGCCCGCCGCCCGCCCGCCGCGC CCATGCAGGCCATCAAGTGCCTGGTGGTTCGGCGACGGCGCCGTGGGGAAGACATGCTTGC TGATCAGCTACACGACCAACGCCTTCCCCGGAGAGTACATCCCCACCGTTTTTGAACAAC ACTCTGCCAACGTGATGGTGGACGGGAAACCAGTCAACTTGGGGTGTGGGACACAGCGG GTCAGGAGGACTACGATCGGCTCGGGCCACTCTCTACCCCAAACCTGACGTCTTTCTGA TCTGCTTCTCTGGTGAGCCCGCCTCCTTCGAGAATGTTTCGTGCCAAGTGGTACCCGG AGGTGCGGCACCACTGCCCCACACGCCATCCTCCTGGTGGGCACCAAGCTGGACCTCC GCGACGACAAGGACACCAATTGAGCGGCTGCGGGACAAGAAGCTGGCACCCATCACCTACC CACAGGGCCTGGCCATGGCCCGGAGATTGGCTCTGTGAAATACCTGGAGTGCTCAGCCC TGACCCAGCGGGCCTGAAGACAGTGTGTTGACGAGGCGATCCGCGCGGTGCTCTGCCCGC CCCCAGTGAAGAAGCCGNGAAGAAGTGCACCGTCTTCTAGAGCCCTGGCCCCACCCGAG CCTGAGGCTGGCGNGAGCAGCCCTGGACGTGTCCGCTGTTGTGTTGAGACGTGTGGTGT CCCTGNAGTCGCTGTGGNAACGTGGGGGTTGGCCCGNGGGAANCATGGGGATGAAGC TGNTTGGCAGATCCTGTCTCTGCCGCTCATCTTGGGGTGTGGCTCCAGCCTTCTCT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005052 unedited</p> <pre> TATGTTAAAGAGAGGGGCTGCCCCACCTCGGGGCACAAGGAACAGAACTCCCCCCCACC CTCCCCCTCCAGGGAAGCCCATCCTGGGGCTTCCCTGCACCTGCCCTGCAGCCCTGAGG GAGACCTGTCCCTCCCGGCCTCCGGCGGGGCCAGGGAAGGCTGGAGCCACACCCAG AATGAGGCGGCAGAGAGGACAGGATCCTCCCACCCAGCCTCATCCCCATGCTTCCCCCG GCCCACCCACCAGCTCCCCACAGCCGACTCAGGGACACCACACGTCTCAACACAACAGC GGACAGTCCAGGGCTGCTCCCCGCCAGCCCTCAGGCTCGGGTGGGCCAGGGCTTAGAA GACGGTGCATTTCTCCCGGCTTCTTCACTGGGGCGGGCAGAGCACCCGCGGATCGC CTCGTCAAACACTGTCTTCAGGCCCGCTGGGTGAGGGTGAAGTCCAGGTATTTTAC AGAGCCAATCTCCCGGGCCATGGCCAGGCCCTGTGGGTAGGTGATGGGTGCCAGTCTT GTCCCGCAGCCGCTCAATGGTGTCTTGTGTCGCCGGAGTCCAGCTTGGTCCACCAGGA GGATGGCGTGTGGCGCAGTGGTGGCCCACTCCGGGACCACTGGGACGAACATTCTCAAGA GGCCGGCTCACATAGAGACCATATCAAAGACCTACTTGGGGGAGAGAGGGCCCAACC ATCTGATCCTCCTGCCCGCTGCGGCCACAGCCCAAGTACTGGTTCGCCGCCCTACGTT GGCAAGTCCCGCAAACCGGGCGATTACCTCCGGGGAAGCGCGGCCCGCAGCGATCAAAC CAGTTCTCCCGGGCGTCGCACCCCCCACTTAGGTCCATGGCCCGGCCGCGCGGTGGG CGCCCGCCCACTGGGAAAATCCCGCGCCAAGCGTCCGTGAATCCGCGCCCTTT TGGCGTTTAAATTCGCGACCTAACAGCTCGCTATAACCTCACG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005052
Insert Size:	1100 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).
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_005052.2 , NP_005043.1
RefSeq Size:	1077 bp
RefSeq ORF:	579 bp
Locus ID:	5881
UniProt ID:	P60763
Cytogenetics:	17q25.3
Domains:	ras, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Axon guidance, B cell receptor signaling pathway, Colorectal cancer, Fc epsilon RI signaling pathway, Focal adhesion, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Pancreatic cancer, Pathways in cancer, Regulation of actin cytoskeleton, VEGF signaling pathway, Viral myocarditis, Wnt signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>