

Product datasheet for **SC114977**

RND1 (NM_014470) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RND1 (NM_014470) Human Untagged Clone
Tag:	Tag Free
Symbol:	RND1
Synonyms:	ARHS; RHO6; RHOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014470 edited
 GAATTCGGCACGAGGATCTGGCTTGATTGGCGTGTGAGACGCACCTGGCGCAACCTCC
 CTTCTGAATCGAAGTTCAAGTCCC GCGGACACTGCAACCATGAAGGAGAGACGGGCCCC
 CAGCCAGTCGTGGCCAGATGTAAGCTCGTTCTGGTCGGGGACGTGCAGTGTGGGAAGACC
 GCGATGTTGCAAGTGTAGCGAAGGATTGCTATCCAGAGACCTATGTGCCACCGTGTTC
 GAAAATTACACAGCCTGTTTGGAGACAGAGGAACAGAGGGTGGAGCTTAGTCTCTGGGAT
 ACCTCAGGATCTCCCTACTACGATAATGTCCGTCCACTCTGCTACAGCGACTCGGATGCA
 GTATTACTATGTTTTGACATCAGCCGTCCAGAGACAGTGGACAGCGCACTCAAGAAGTGG
 AGGACAGAAATCCTAGATTATTGTCCCAGCACCCGCGTTTTGCTCATTGGCTGCAAGACA
 GACCTGCGAACAGACCTGAGTACTCTGATGGAGCTGTCCCACCAGAAGCAGGCGCCCATC
 TCCTATGAGCAGGGTTGTGCAATAGCAAAGCAGCTGGGTGCAGAAATCTACCTGGAAGGC
 TCAGCTTTCACCTCAGAAAAGAGCATCCACAGCATCTTTCGACGGCATCCATGCTGTGT
 CTGAACAAGCCTAGCCCACTGCCCCAGAAGAGCCCTGTCCGAAGCCTCTCAAACGACTG
 CTCACCTCCCCAGTCGCTCTGAACTCATCTTCTACCTTCAAGAAGGAAAAGGCCAAA
 AGCTGTTCCATTATGTGAAGTGGAAATTGGAGGGGGGAGACAACCCCTACTTCTCCCT
 TGGGGTGCAGAGGCACGGGGAGAGGGAGGATGAGACAATTTAGGACACTGGACATGAGTT
 TTTCAGATGGCCACGGTGAAGGAGACAGGAATGGGGCGAGGAAGGAGCCAG
 GCCCGCATGAGGACCTGACGCTGAGAGAGAACCATCATACCCCAAGCCAGGCACTAGAT
 TTTGGAGGGGGGACTACCCCACTGCCCCCCCCGCTCCAGAGGAAGGAAAGCTGTGGGG
 GACGGGGGGCATGCTGGCCTCATGGGCTTGGGGGCTACAGCAGCCTCACCTTACGCTTC
 ATGCCTTTCACACAGCGTTTCCATGCAGGTGAGGGGATGGGAGGGTCCCTGAGCCCT
 TCCCTTCCCCTTAAGGAGGCAGCAACGGAGAGTGGGGAAGTGGAGCGGACGCTCCCTTG
 GGGCTTAGCCCCAGTGTTCGTAAGTCAATCGGAAGTGCAGGAGCTGGTGCAGAGCCAA
 TGAGAAGGAAACCTCATCTTTGCATAGCCCATGCCTCATGGAGAGGTGACATCATACATT
 CACATGCTTCTACCTAAGTCCCAGGGTCCAAGGGAGAAGCCCCAGACCCCTTCTCTT
 GCAGAGTGTGGGGTGGTGGTGTGCAGGGGCAGGGCTGGGTGGGGTACCAGACTTTT
 TCTGCCCTTAGGGTAGTACAGCTGGCATTGTTTTATAGACTCTTGTCTTTGGAATTGGG
 GGGAGGGGGGAGTGTTCATCTGTTATATGTTCTGTGTTAATGAAGAAAACCTATTT
 ATTAATGAAAAATATAATACATATAAAGAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014470 unedited
 NNGGTCAAAAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGATCTGGC
 TTGATTGGCGTGTGAGACGCACCTGGCGCAACCTCCCTTCTGAATCGAAGTTCAAGTC
 CCGCGGACACTGCAACCATGAAGGAGAGACGGGCCCCAGCCAGTCGTGGCCAGATGTA
 AGCTCGTTCTGGTCGGGGACGTGCAGTGTGGGAAGACCGCATGTTGCAAGTGTAGCGA
 AGGATTGCTATCCAGAAACCTATGTGCCACCCTGTTTCGAAAATTACACAGCCTGTTTGG
 AGACAGAGGAACAGAGGGTGGAGCTTAGTCTCTGGGATACCTCAGGATCTCCCTACTACG
 ATAATGTCCGTCCACTCTGCTACAGCGACTCGGATGCAGTATTACTATGTTTTGACATCA
 GCCGTCCAGAGACAGTGGACAGCGCACTCAAGAAGTGGAGGACAGAAATCCTAGATTATT
 GTCCCAGCACCCGCTTTTGTCTCATTGGCTGCAAGAAAGACCTGCGAACAGACCTGAGTA
 CTCTGATGGAGCTGTCCCACCAGAAGCANNGCGCCATCTNCTATGAGCCAGGGTGTGCAA
 TAGCAAAGCAGCTGGGTGCAGAAATCTAACCTGAAAGCTCAGCTNTCACCTCAGAAAGAG
 CATNCACAGCATCTNTTCGACGGGCATCCATGCTGTGTCTGAACAAGCCTAGNCCACTGN
 CCCAGAAGAAGCCTGTNCGAAGCCTCTCAAACGACTGCTCCACCTNCCCAGTCGCTCTG
 AACTCATCTCTTCTACCTTCAAGAANNGAAAAGCCAAAGCTNGTCATATTGTAAGTGGAA
 TGGAGGGGGGGGGGGGAGACACCCTACTCTCCTTGTGGGNANNNNCCCGCCGGGGAGA
 GGGGGGGGAGGGATGAGACATTTAGGAACGGACATGGAGTTTTTTAGATGGCACCCGGG
 AGGCTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014470 unedited CACTGTGTACCGCGCCCGCAATTCTAGATCGAGTTTTTTTTTTTTTTTTTTTCTTTATAT GTATTATATTTTTTCAATTAATAAATAGGTTTTCTTCATTAACACAGAACATATAACAGAT TGAAACACTCCCCCTCCCCCAATCCAAAGACAAGAGTCTATAAAACAAATGCCAGC TGTACTACCCTAAGGGCAGAAAAAGTCTGGTGACCCCAACCCAGCCCTGCCCTGCAGCA CCACCACCCACACTCTGCAAGAGAAGGGGTCTGGGGCTTCCCTTGGACCCCTGGGG ACTTAGGTGAGAAGCATGTGAATGTATGATGTCACCTCTCCATGAGGCATGGGCTATGCA AAGATGAGGTTTCTTCTCATTGGCTCTGACCAGCTCCTGCACTTCCGATTGCAGTTACG AAGCACCTGGGCTAAGCCCCAAGGGAGCTGCCGCTCCACTTCCCCACTCTCCGTTGCTG CCTCCTTAGAGGGGAAGGGAAGGGCTCAGGGACCCCTCCCATCCCCTGACCTGCATGGAA ACGCTGTGTGGAAGAGGCATGAAGCTGAAGGTGAGGCTGTGTANGCCCCCAGCCCATG AGGCCAGCATGCCCCCGTCCCCACAGCTTTCCTTCTCTGGAGCGGGGGGGGGCACT GGGGGTAGTCGCCCCCTCCCAATCTAGTGCCTGGCTGGGGGTATGATGGTTCTCTCT CAGCGTCAAGTCTCATGCCCGCTGGCTTCTCCCTGCCCCATTCTGTCTTCTTTCC AGCCCTCACCGGTGGCCATCTGAAAACTCATGTCCAGGGTCTAAATTGGTTCATCCTC TTCTCCCGTGGCTTTGGCCCCAAGGAAGGAAGANGGGGGTGGCTCCCCCCCCCAATTC CACTCACAAAAGGGAACAGCTTTTGGCCTTTTCTTTCTTGAAGGTAAAAAAATGAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_014470
Insert Size:	1690 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_014470.2 , NP_055285.1
RefSeq Size:	1681 bp
RefSeq ORF:	699 bp
Locus ID:	27289
UniProt ID:	Q92730
Cytogenetics:	12q13.12
Domains:	ras, RAS, RHO, RAB

Protein Families: Stem cell - Pluripotency

Protein Pathways: Axon guidance

Gene Summary: This gene encodes a protein that belongs to the Rho GTPase family. Members of this family regulate the organization of the actin cytoskeleton in response to extracellular growth factors. A similar protein in rat interacts with a microtubule regulator to control axon extension. [provided by RefSeq, Apr 2014]