

## Product datasheet for MC212716

### Rnd1 (NM\_172612) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Rnd1 (NM\_172612) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Rnd1  
 Synonyms: A830014L09Rik; Arhs  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC212716 representing NM\_172612  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGAAGGAGAGACGGCACCGCAGCCAGTGGTGGTCAGGTGTAAGCTCGTCCTGGTGGGAGACGTGCAGT  
 GTGGGAAGACGGCGATGTTACAGGTGCTAGCGAAAGACTGCTATCCCGAGACCTATGTGCCTACCGTGTT  
 TGAGAATTACACAGCCTGTTGGAGACAGAGGAACAGAGAGTGGAGCTTAGTCTCTGGGACACCTCAGGT  
 TCTCCTTACTATGACAATGTTCCGTCCACTCTGCTACAGCGACTCAGATCGGGTATTGCTGTGCTTTGACA  
 TCAGCCGTCCAGAGACCATGGACAGTGCCTCAAGAAGTGGAGAACAGAAATCCTAGACTACTGTCCAG  
 CACACGTGTTTTGCTTATTGGCTGCAAGACAGATCTTCGAACAGACCTGAGCACTCTAATGGAAGTGTCC  
 CACCAGAAGCAGGCACCCATCTCCTACGAGCAGGGCTGTGCGATAGCCAAGCAGTTGGGCGCAGAAATCT  
 ACCTGGAGGGCTCGGCTTTCACCTCCGAGACAAGCATCCACAGCATTTCCGGACAGCATCCATGGTGTG  
 TCTGAACAAGTCTAGCCCAGTCCCCCGAAGAGCCCCGTCCGAAGCCTTCCAAGCGACTCCTCCACCTC  
 CCCAGTCGCTCTGAAGTCACTCAACTACATTCAAGAAGGAAAAGGCCAAAAGCTGTTCCATCAT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_172612  
 Insert Size: 699 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_172612.3</a></u> , <u><a href="#">NP_766200.1</a></u>
<b>RefSeq Size:</b>	2203 bp
<b>RefSeq ORF:</b>	699 bp
<b>Locus ID:</b>	223881
<b>UniProt ID:</b>	<u><a href="#">Q8BLR7</a></u>
<b>Cytogenetics:</b>	15 F1
<b>Gene Summary:</b>	Lacks intrinsic GTPase activity. Has a low affinity for GDP, and constitutively binds GTP. Controls rearrangements of the actin cytoskeleton. Induces the Rac-dependent neuritic process formation in part by disruption of the cortical actin filaments. Causes the formation of many neuritic processes from the cell body with disruption of the cortical actin filaments (By similarity).[UniProtKB/Swiss-Prot Function]