

## Product datasheet for **SC122674**

### **RIN1 (NM\_004292) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIN1 (NM_004292) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIN1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_004292 edited
CGAAGGAGCTCCCAGCCATGGAAAGCCCTGGAGAGTCAGGCGCGGGCTCTCTGGAGCCC
CCAGCCCGTCCAGCTTCACTACTGGGCACCTGGCGAGAGAAAAGCCAGCCAGGACCCAC
TGATGACGTGCCAATGCCAGCGGGCGGCAGGCAGGCGGGCCGAGCGGCCGGGGCGCG
TTGTGAGCCTGCGGGAGCGCCTGCTGCTACCCGGCCCGTGTGGCTGCAGCTGCAAGCCA
ACGCAGCGGCCGCACTGCACATGCTGAGGACCGAGCCCCGGGGACGTTCTCTGTGCGGA
AATCTAACACCCCGCCAGTGCCAGGCCCTGTGCATGCGGTTGCCTGAAGCCAGTGGCCCT
CCTTCGTCTCCAGCCACTACATCCTGGAGAGCCCTGGCGGCGTCTCCTTGAGGGCTCGG
AGCTCATGTTCCAGACCTAGTCCAGCTCATCTGTGCCTACTGCCACACCCGGGACATCC
TTCTCTCCCGCTGCAGCTCCCCAGAGCCATCCACCACGCAGCCACTCACAAAGAGCTGG
AGGCCATCTCCCATCTGGGCATTGAGTTCTGGAGCTCCTCCCTCAACATCAAGGCTCAGC
GGGGCCCGGCTGGAGGCCAGTGTGCCCCAGCTGAAGGCCCGGTCCCCTCAAGAGCTGG
ACCAGGGACCCGAGCCGCTTGTGCTTCTTCAACCCCTGTTCCCGGGGACCTAGGGC
CCACCAAGCGGGAGAAATCAAGAGAAGCTTCAAAGTGC GCGTGTCCACAGAGACCTCCA
GCCCCCTGTCTCCACTGCCGTGCCACCTCCCCCGTCCCGTGTGCCAGGGGACGTTCC
CCAGCCAGACAGAGCGGCTGCCCCCTTGCCAGCTGCTACGGAGGGAGAGCTCAGTGGGGT
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ACTGCGGCTCCCCAGCAGCTCCGAGGAGGAGGGGTGCCAGGGTCCCGGGGAGCCAG
CGACCTCACCCACCTGGGCCGCGACGACCTCTGCTTCGGTCCATGAGCGCCGCTTCT
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GACACACAGCCCGGGCCAGCTGGTGCAGGACCTACTGACCCAGGTGCGGGCTGGGCCG
AGCCCCAGGAGCTGCAGGGCATCCGTGAGGCGCTGAGCCGGGCCCGGGCCATGCTGAGTG
CGGAGCTGGGCCCTGAGAAGCTGCTGTCGCTAAGAGGCTGGAACATGTCCTGGAGAAGT
CATTGCATTGCTGTGCTCAAGCTCTCCGGCCATCCTGGCAGCCCGCTGCGGCGCC
GGCTTGCCGACAGCGCTCCCTGGGCGCCTAGCTGAGGGCTCCGCTTGCCCGGGGCC
AGGGCCCCGAGCCTTCGGGTCCACCTGAGCCTGCCCTCCCCAGTAGAGTTGGAGCAAG
TGCGCCAGAAGCTGCTGCAGCTGCTCCGCACCTACTCACCCAGCGCCAGGTCAAGCGGC
TCCTGCAGGCCTGCAAGCTGCTACATGGCCCTGAGGACCCAGGAAGGGGAGGGCGCG
GTGCCGACGAGTCTCTGCTGCTGAGCCTCGTCTTGGCCACTGTGACCTTCTGAGC
TGCTGCTGGAGGCCGAGTACATGTCGGAGCTGCTGGAGCCAGCCTGCTTACTGGAGAGG
GTGGCTACTACCTGACCAGCCTCTTGCCAGCCTGGCCCTGCTGAGTGGCCTGGGTCAGG
CCACACCCTCCCACTGAGCCCCGTGCAGGAGCTACGGCGCTCCCTCAGCCTCTGGGAGC
AGCGCCGCTGCCCTGCCACCCACTGCTTCCAGCACCTCCTCCGAGTAGCCTATCAGGATC
CCAGCAGTGGCTGCACCTCCAAGACCCTGGCCGTGCCCCAGAGGCTCGATTGCCACCC
TGAACCAGCTCTGTGCCACCAAGTTCGAGTGACCCAGCCCAACACTTTTGGCCTCTTCC
TGTACAAGGAGCAGGGCTACCACCGCTGCCCCCTGGGGCCCTGGCCACAGGCTGCCCA
CCACTGGCTACCTCGTCTACCGCCGGGCAGAGTGGCCTGAGACCCAGGGGGCTGTGACAG
AGGAGGAGGGCAGTGGGCAGTCAGAGGCAAGAAGCAGAGGGGAGGAGCAAGGGTGCCAGG
GAGATGGGGATGCTGGGGTCAAAGCCAGCCCCAGGGACATTCGGGAACAGTCTGAGACAA
CTGCTGAAGGGGCCAGGGTCAAGCCCAGGAAGGCCCTGCTCAGCCAGGGGAACAGAGG
CAGAGGGAAGCCGGCAGCAGAGGAGTAGCTTGAAGTGGCCAGAAGGGTATTCCGGGCG
GGAGACCTGAGCCTGCTGAGAAATCCTTTTAGCGCCAGCAAGCCCACCCAGGGCCCTG
TCCTGTGCTGCCACCACCTTTGTCTGATACTTGTTCAGGGAAGCTGGGGAACTGCC
ACATCTGAGGAACTGGAATAAAGATGAGGGGGCTTCGGGGGCCCCAGACTGTGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004292 unedited NNAAAGTACAAATTTTGTAAACGACTCACTATAGGGCACGGCCGCAATTCGCACGAGG CGAAGGAGCTCCCAGCCATGGAAAGCCCTGGAGAGTCAGGCGCGGGCTCTCCTGGAGCCC CCAGCCCGTCCAGCTTCACTACTGGGCACCTGGCGAGAGAAAAGCCAGCCAGGACCCAC TGTATGACGTGCCAATGCCAGCGGGCGGACAGGCGGGCCGAGCGGCCGGGGCGCG TTGTGAGCCTGCGGGAGCGCCTGCTGCTCACCCGGCCCGTGTGGCTGCAGCTGCAAGCCA ACGCAGCGGCCGCACTGCACATGCTGAGGACCGAGCCCCGGGGACGTTCCCTCGTGCGGA AATCTAACACCCGCCAGTGCCAGGCCCTGTGCATGCGGTTGCCTGAAGCCAGTGGCCCT CCTTCGTCTCCAGCCACTACATCCTGGAGAGCCCTGGCGGCGTCTCCTTGAGGGCTCGG AGCTCATGTTCCAGACCTAGTCCAGCTCATCTGTGCCTACTGCCACACCCGGGACATCC TTCTCCTCCCGTGCAGCTCCCCAGAGCCATCCACCACGCAGCCACTCACAAAGAGCTGG AGGCCATCTCCCATCTGGGCATTGAGTTCTGGAGCTCCTCCCTCAACATCAAGGCTCAGC GGGGCCCGGCTGGAGGCCAGTGTGCCCCAGCTGAAGGCCCGGTCCCCTCAAGAGCTGG ACCAGGGCACCGAGCCGCTTGTGCTTCTTCAACCCCTGTTCCCGGGGACCTAGGGC CCACCAAGCGGGAGAAATCAAGAAAGCTCAAAGTGCGCGTGTCCACAGAGACCTCCAC CCCCTGTCTCCACTGCCGTGCCACTCCCCCGTCCCGTGTGCCAGGGGCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004292
<b>Insert Size:</b>	2634 bp
<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>	<a href="#">NM_004292.2</a> , <a href="#">NP_004283.2</a>
<b>RefSeq Size:</b>	2698 bp
<b>RefSeq ORF:</b>	2352 bp
<b>Locus ID:</b>	9610
<b>UniProt ID:</b>	<a href="#">Q13671</a>
<b>Cytogenetics:</b>	11q13.2

**Gene Summary:**

Ras effector protein, which may serve as an inhibitory modulator of neuronal plasticity in aversive memory formation. Can affect Ras signaling at different levels. First, by competing with RAF1 protein for binding to activated Ras. Second, by enhancing signaling from ABL1 and ABL2, which regulate cytoskeletal remodeling. Third, by activating RAB5A, possibly by functioning as a guanine nucleotide exchange factor (GEF) for RAB5A, by exchanging bound GDP for free GTP, and facilitating Ras-activated receptor endocytosis.[UniProtKB/Swiss-Prot Function]