

Product datasheet for **SC115778**

RIT1 (NM_006912) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIT1 (NM_006912) Human Untagged Clone
Tag:	Tag Free
Symbol:	RIT1
Synonyms:	NS8; RIBB; RIT; ROC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_006912 edited ATGGATTCTGGAACGCCCCAGTTGGTAGCTGCTGTAGCAGCCCCGCTGGGCTCTCACGG GAGTACAAACTAGTGATGCTGGGTGCTGGTGGTGTAGGGAAGAGTGCCATGACCATGCAG TTCATCAGCCACCGATTCCCAGAAGATCATGATCCCACCATTGAAGATGCTTATAAGATC AGGATCCGTATTGATGATGAGCCTGCCAATCTGGACATTTTGGATACAGCTGGACAGGCA GAGTTTACAGCCATGCGGGACCAGTATATGAGGGCAGGAGAAGGGTTTATCATCTGTTAC TCTATCAGGATCGTCGAAGTTTCCATGAAGTTCGTGAGTTTAAACAGCTTATTTATCGA GTCCGACGTAAGTACGATACACCTGTGGTCTTGTGGGAAACAAGTCAGACCTCAAACAG CTAAGACAGGTCACCAAGGAAGAAGGATTGGCCTTGGCCCGAGAATTCAGCTGTCCCTTT TTTGAGACATCTGCTGCATACCGCTACTATATTGATGATGTTTTCCATGCCCTTGTACGG GAGATACGTAGGAAAGAAAAGGAGGCAGTACTGGCCATGGAGAAAAAATCTAAGCCAAA AACAGTGTATGGAAGAGGCTAAAATCACCATTCCGGAAGAAGAAAGATTACAGTAACCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006912 unedited TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGGAAGACGAAGTG CGTGACCCGACCGGTGTGGTGTCCAGTCCCCACTGACCAGTAGGAGCAGCAGGGCGTC GGCTTGTGAGGTGGCTTTTCTCGGGGCAACCCAGGAAGGCCCAAGAGGACAATGGATT CTGGAACGCGCCAGTTGGTAGCTGTAGCAGCCCCGCTGGGCTCTCACGGGAGTACA AACTAGTGATGCTGGGTGCTGGTGTAGGGAAGAGTGCCATGACCATGCAGTTCATCA GCCACCGATTCCAGAAGATCATGATCCCACCATTGAAGATGCTTATAAGATCAGGATCC GTATTGATGATGAGCCTGCCAATCTGGACATTTTGGATACAGCTGGACAGGCAGAGTTTA CAGCCATGCGGGACCAAGTATATGAGGGCAGGAGAAGGGTTTATCATCTGTTACTCTATCA CGGATCGTCGAAGTTTCCATGAAGTTCGTGAGTTTAAACAGCTTATTTATCGAGTCCGAC GTACTGACGATACACCTGTGGTCTTGTGGAAACAAGTCAGACCTCAAACAGCTAAGAC AGGTACCAAGGAAGAAGGATTGGCCTTGGCCGAGAATTCAGCTGTCCCTTTTTTGTAGA CATCTGCTGCATACCGCTACTATATTGATGATTTTTCCATGCCCTTGTACGGGAGATAC GTANGAAAAGAAAAGGAGCAGTACTGGCCATGGAGAANAATCTAAGCCAAAACAGTGAT GGAAGAAGCTAANATCACCATTCCGGAAGAAGAAAGATTGAGTAACCTGAAGAGAGATGT GAAGTGNTTATCTGTGAAGTGCAGTGTATCAAGCAGTCCAGTAACCTGCAGTACTG AGTATGGTGCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006912
Insert Size:	2640 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_006912.3 , NP_008843.1
RefSeq Size:	1104 bp

RefSeq ORF: 660 bp

Locus ID: 6016

UniProt ID: [Q92963](#)

Cytogenetics: 1q22

Domains: ras, RAN, RAS, RHO, RAB

Gene Summary: This gene encodes a member of a subfamily of Ras-related GTPases. The encoded protein is involved in regulating p38 MAPK-dependent signaling cascades related to cellular stress. This protein also cooperates with nerve growth factor to promote neuronal development and regeneration. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences. These difference cause translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 2.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.