

Product datasheet for **SC309094**

RGPD5 (NM_005054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGPD5 (NM_005054) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGPD5
Synonyms:	BS-63; BS63; HEL161; RGP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309094 representing NM_005054. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGAGGCGCAGCAAGGCCGATGTGGAGCGGTACGTCGCCTCGGTGCTGGGTCTCACCCCGTCGCCTCGA
CAGAAGTCAATGAAAGGATTCTATTTGCAAAGCTGTATTATGAAGCTAAAGAATATGATCTTGCTAAA
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CAAAAAGATCTTGTGTTGAAGATTGCAGAATTGCTTTGAAAAATGATGTTACTGATGGAAGAGCAAAA
TACTGGGTCGAAAGAGCAGCAAACTTTTCCAGGAAGTCCTGCAATTTATAAACTAAAGGAACAGCTT
CTAGATTGTGAAGGTGAAGATGGATGGAATAAACTTTTTGACTTGATTACAGTCAGAACTTTATGTAAGA
CCTGATGACGTCCATGTGAACATCCGGCTAGTGGAGTTGTATCGCTCAACTAAAAGATTGAAGGATGCT
GTGGCCCACTGCCATGAGGCAGAGAGGAACATAGCTTTGCGTTCAAGTTTAGAGTGGAATTCGTGTGTT
GTACAGACCCCTTAAGGAATATCTGGAGTCTTTACAGTGTGGAGTCTGATAAAAGTGACTGGCAAGCA
ACCAATACAGACTTACTGCTGGCCTATGCTAATCTTATGCTTCTTACGCTTTCCACTAGAGATGTGAG
GAAAATAGAGAATTACTGGAAAGTTTGTAGTGTCTTCAGTCTGCGAAATCTTCTTTGGGTGGAAT
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AAGATGGGTCAGCATGGTAATAATGTTCAATGGCGAGCTTTCTGAGCTGGCTGATTGTGCTATCTC
ATAGCATTTTCAGGTTCCAGACCAAGATTAAATTAAGAGAAGGTAAAGCTGGACAAAATCTGCTGGAA
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TTCTTAAAGAGGTTGTTGAACTTTTGCCAACAAAATGGGCAGTCTGCGTTATATGATGCTCTGTTT
TCTAGTCAGTCACCTAAGGATACATCTTTCTTGGTAGCGATGATATTGGAAAAATTGATGTACAAGAA
CCAGAGCTTGAAGATTGGCTAGATACGATGTTGGTGCTATTCGAGCACATAATGGTAGTCTTCAGCAT
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CTTTTCCATCGTTGCCCATGAAACCTCAAGGCTTGAACAAAATGCGCCTGAATCAATATGATTTTA
GATCTTGAAGTATTTCTCTTGGAGTAGTATATACCAGCCACTTACAATTAAGGAGAAATGTAATTCT



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CACCATAGCTCCTATCAGCCGTTATGCCTGCCCTTTCCTGTGTAAACAGCTTTGTACAGAAAGACAA
 AAATCTTGGTGGGATGCGGTTTGTACTCTGATTCACAGAAAAGCAGTACCTGGAACTTGCGCAAAATTG
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 CTTGTACATTGGGCAAAATACCTTCAGAAAACGGGCAGCGGTCTTAATCTTTTTATGGTCAACTAGAA
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 TCAGTACATGCTTCTCCATTGGCAAGTAGCCCTGTGAGAAAAATCTTTTCCGCTTTGATGAGTCAACA
 ACAGGATCTAACTTCAGTTTAAATCTGCTTTGAGTCTATCTAAGTCTCCTGCCAAGTTGAATCAGAGT
 GGGACTTCAGTTGGCACTGATGAAGAATCTGTTGTTACTCAAGAAGAAGAGAGAGATGGACAGTACTTT
 GAACCTGTTGTTCTTTACCTGATCTAGTTGAAGTATCCAGTGGTGAGGAAAAATGAACAAGTTGTTTTT
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 ATAAAGATTTTACAGAATTATGATAAAGCAAGTTCGTATAGTGATGAGAAGGGACCAAGTATTAATA
 CTTTGTGCCAATCACAGAATAACTCCAGACATGAGTTTGCAAAATATGAAAGGGACAGAAAGAGTATGG
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 CAGGATGTTGCAGACTCGTTTAAAGAAAATTTTGTATGAAGCAAAAACAGCCAGGAAAAAGATTCTTTG
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 TTAGAAGAAACCACAAGAGAGAGGACAGATGTTATTCAGGGTGATGATGAGCAGATGCAGCTTCAGAA
 GTTGAAGTGTCTAGCACATCTGAAACAACAACAAAGCAGTGGTTTCTCTCCAAAGTTGTATTTGTT
 TCAGAGTCTGTTAAAGAATTTTGTAGTAGTAAAAATCAAAACCATTTGTATTTGGCAACAGTCTGCC
 ACTGGGTCTTTGTTTGGATTTAGTTTTAATGCACCTTTGAAAAGTAACAATAGTAACTAGTTTCAGTA
 GCCCAGAGTGGATCTGAAAGCAAGTGGAACCTAAAAATGTGAAGTGTCAAAGAACTCTGATATCGAA
 CAGTCTTCAGATAGCAAAAGTCAAAAATCTCTGCTTCTTTCCACGGAAGAATCTTCAATCAACTAC
 ACATTTAAACACCAGAAAAGGAGCCTCCATTATGGCATGCTGAATTTACCAAAGAAGAAATTGGTTTCAG
 AAGCTCCGTTCCACCACAAAAAGTGCAGATCACTTAAACGGCCTGCTTCGGGAAATAGAGGCAACCAAT
 GCAGTCTTATGGAGCAAATTAAGCTTCTCAAAAGTGAATAAGAAGATTGGAAGGAATCAAGAGCGA

GAGAAAGTCTGCAGCTAACCTGGAATACTTGAAGAACGTCTTGCTGCAGTTCATTTTCTTGAAGCCAGGT
 AGTGAAAGAGAGAGACTTCTTCTGTTATAAATACGATGTTGCAGCTCAGCCCTGAAGAAAAGGAAAA
 CTTGCTGCGGTTGCTCAAGATGAGGAAGAAAATGCTTCCCGTTCTTCTGGATGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_005054
Insert Size:	5298 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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:	<u>NM_005054.2</u>
RefSeq Size:	7182 bp
RefSeq ORF:	5298 bp
Locus ID:	84220
UniProt ID:	<u>Q99666</u>
Cytogenetics:	2q13
Protein Families:	Druggable Genome
MW:	198.9 kDa

Gene Summary:

RAN is a small GTP-binding protein of the RAS superfamily that is associated with the nuclear membrane and is thought to control a variety of cellular functions through its interactions with other proteins. This gene shares a high degree of sequence identity with RANBP2, a large RAN-binding protein localized at the cytoplasmic side of the nuclear pore complex. It is believed that this RANBP2 gene family member arose from a duplication event 3 Mb distal to RANBP2. Alternative splicing has been observed for this locus and two variants are described. Additional splicing is suggested but complete sequence for further transcripts has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) is the longest transcript encoding the largest isoform (1).