

Product datasheet for **SC315758**

RGP1 (NM_001080496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGP1 (NM_001080496) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGP1
Synonyms:	KIAA0258
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315758 representing NM_001080496. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTGAAGTGGTAGCAGAGCTCAGCCGGGTCTGTATTTTTGGCTGGGGAGGCGCTGGAGTGTGTA
GTGACCGTCACCAACCCCTTCCGCCACGGCCACTTCTGCATCCAGTGAGGCCCTGGCCTGGGCCAGT
GCCAAATCCACTGCCAGTTCATGCCAGTGAGAGTGCAGTGCCTCCTCCTGACTCTAGTCAG
CCAGATGTCCAGCCGACAGCCAGACTGTCTTTCTGCCACACCGAGGTGAGAGGGCCAGTGTATCCTT
TCTACTCCACGAAAATCTATTCTGTGACCTGAGGCTTGATCCTGGAGAGTCCAATCATACTCCTAC
AGTGAAGTGTGCCATAGAGGGACCACCTCCTTCGGGGTCAGTCAGTCAAGTACGTCTACAACTG
ACCATTGGCTGCCAGCGTCAACTCCCTATCACTTTACTCAGAGTCCCTCTGAGGGTTCTTGTGCTG
ACTGGCCTTCAGGATGTCCGGTTTCCCCAGGATGAGGCTGTAGCCCCATCCAGTCCATTCTTGGAGGAG
GATGAAGTGGGAAGAAAGATTGATGGCTAGCTGAGCTGGCTGGGGAACGCCAATGGCTGCCACATCC
TGCCCGACGCTCCATCTATACAATATCAGTGATGGCCGAGGAAAGTTGGGACGTTTGGCATCTTCAA
TCTGTGTACAGACTTGGCGAGGACGTGGTGGGGACCTTAACTTAGGGGAAGGAACCGTAGCTTGTTTG
CAGTTTTCAGTCAGCTTACAGACCGAGGAGCGGTACAGCCTGAGTACCAGCGCGACGTGGGCGAGGG
GGTGTCCCCTCTGTGTACATGTGACTCACGCCGGCACCAGGAATCCTGCCTACATACTAGAACCC
AGCTTCCCTCCCAATCCCTCTCAGCTCCACCCAGGCTTCTGTACAGCATTGTGCTTGAAGTGG
AGATTGCATTTTGAATTTGTAACGTCCCGAGAACCAGGATTGGTACTCCTACCCCTGTGGAACAGGCC
GAACCTACCACCTGGACAGGACCTGAGCAAGTACCTGTAGACACCTTCACTGGGACCTGCCATCAAG
GTGCTGCCTACTAGCCCCACCCTGGCCTCATATGCTGCCAGGCCCCAGCACCAGCACCATAACCATC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001080496
Insert Size:	1176 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:	<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:	<u>NM_001080496.2</u>
RefSeq Size:	1717 bp
RefSeq ORF:	1176 bp
Locus ID:	9827
UniProt ID:	<u>Q92546</u>
Cytogenetics:	9p13.3
MW:	42.5 kDa
Gene Summary:	The RIC1-RGP1 complex acts as a guanine nucleotide exchange factor (GEF), which activates RAB6A by exchanging bound GDP for free GTP and may thereby required for efficient fusion of endosome-derived vesicles with the Golgi compartment. The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors.[UniProtKB/Swiss-Prot Function]