

Product datasheet for **SC311325**

RPGR (NM_001034853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPGR (NM_001034853) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPGR
Synonyms:	COD1; CORDX1; CRD; orf15; PCDX; RP3; RP15; XLRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001034853 edited
 ATGAGGGAGCCGGAAGAGCTGATGCCCGATTTCGGGTGCTGTGTTTACATTTGGGAAAAGT
 AAATTTGCTGAAAATAATCCCGTAAATCTGGTTTAAAAATGATGTCCTGTACATCTT
 TCATGTGGAGATGAACATTCTGCTGTTGTTACCGGAAATAATAAACTTTACATGTTTGGC
 AGTAACAACCTGGGGTCAGTTAGGATTAGGATCAAAGTCAGCCATCAGCAAGCCAACATGT
 GTCAAAGCTCTAAAACCTGAAAAAGTAAAATTAGCTGCCTGTGGAAGGAACACACCCTG
 GTGTCAACAGAAGGAGGCAATGTATGCAACTGGTGGAAATAATGAAGGACAGTTGGGG
 CTTGGTGACACCGAAGAAAGAAACACTTTTCATGTAATTAGCTTTTTTACATCCGAGCAT
 AAGATTAAGCAGCTGTCTGCTGGATCTAATACTTCAGCTGCCCTAACTGAGGATGGAAGA
 CTTTTTATGTGGGGTGACAATTCGAAGGGCAAATTTGGTTTAAAAATGTAAGTAATGTC
 TGTGTCCTCAGCAAGTGACCATTGGGAAACCTGTCTCCTGGATCTCTTGTGGATATTAC
 CATTTCAGCTTTTTGTAACAACAGATGGTGAGCTATATGTGTTGGAGAACCTGAGAATGGG
 AAGTTAGGTCTTCCCAATCAGCTCCTGGGCAATCACAGAACACCCAGCTGGTGTCTGAA
 ATTCGGGAGAAGGTGATCCAAGTAGCCTGTGGTGGAGAGCATACTGTGGTTCTCACGGAG
 AATGCTGTGTATACCTTTGGGCTGGGACAATTTGGTCAGCTGGGTCTGGCACTTTTCTT
 TTTGAACTTCAGAACCCAAAGTCATTGAGAATATTAGGGATCAAACAATAAGTTATATT
 TCTTGTGGAGAAAATCACACAGCTTTGATAACAGATATCGGCCTTATGTATACTTTTGG
 GATGGTCGCCACGAAAATTAGGACTTGGACTGGAGAATTTACCAATCACTTCATTCTCT
 ACTTTGTGCTCTAATTTTTTGGAGTTTATAGTTAAATTTGGTTGCTTGTGGTGGATGTCAC
 ATGGTAGTTTTTGTCTCCTCATCGTGGTGTGGCAAAAGAAATGAAATTCGATGAAATA
 AATGATACTTGCTTATCTGTGGGCACTTTTCTGCCGTATAGCAGTTTAACTCAGGAAAT
 GACTGCAGAGGACTCTATCAGCACGTATGCGGCGAAGAGAGAGGGAGAGGTCTCCAGAT
 TCTTTTTCAATGAGGAGAACTACCTCCAATAGAAGGGACTCTTGGCCTTTCTGCTTGT
 TTTCTCCCAATTCAGTCTTTCCACGATGTTCTGAGAGAAACCTCCAAGAGAGTGTCTTA
 TCTGAACAGGACCTCATGCAGCCAGAGGAACAGATTATTTGCTAGATGAAATGACCAAA
 GAAGCAGAGATAGATAATTCTTCAACTGTAGAAAGCCTTGGAGAACTACTGATATCTTA
 AACATGACACACATCATGAGCCTGAATTCCAATGAAAAGTCATTAATAATTATCACCAGTT



[View online »](#)

CAGAAACAAAAGAAACAACAACAATTGGGGAAGTACGCGAGGATACAGCTTCTACTGAA
AACGATGATAGTGATGAATATGAAGAAATGTCAGAAATGAAAGAAGGAAAGCATGTAAA
CAACATGTGTCAACAAGGGATTTTCATGACGCAGCCAGCTACGACTATCGAAGCATTTTCA
GATGAGGAAGTAGAGATCCCAGAGGAGAAGGAAGGAGCAGAGGATTCAAAAGGAAATGGA
ATAGAGGAGCAAGAGGTAGAAGCAAATGAGGAAAATGTGAAGTGCATGGAGGAAGAAAG
GAGAAAACAGAGATCCTATCAGATGACCTTACAGACAAAGCAGAGGTGAGTGAAGGCAAG
GCAAAATCAGTGGGAGAAGCAGAGGATGGGCCTGAAGGTAGAGGGGATGGAACCTGTGAG
GAAGGTAGTTCAGGAGCAGAACACTGGCAAGATGAGGAGAGGGAGAAGGGGGAGAAAAGAC
AAGGGTAGAGGAGAAATGGAGAGGCCAGGAGAGGGAGAGAAAGAACTAGCAGAGAAGGAA
GAATGGAAGAAGAGGGATGGGGAAGAGCAGGAGCAAAGGAGAGGGAGCAGGGCCATCAG
AAGGAAAGAAACCAAGAGATGGAGGAGGGAGGGAGGAGGAGCATGGAGAAGGAGAAGAA
GAGGAGGGAGACAGAGAAGGAAGAAGAGAAGGAGGGAGAAGGGAAAGAGGAAGGAGAA
GGGGAAGAAGTGGAGGGAGAACGTGAAAAGGAGGAAGGAGAGAGGAAAAAGGAGGAAAGA
GCGGGGAAGGAGGAGAAAGGAGAGGAAGAAGGAGACCAAGGAGAGGGGAAAGGAGGAA
ACAGAGGGGAGAGGGAGGAAAAAGAGGAGGGAGGGGAAGTAGAGGGAGGGGAAGTAGAG
GAGGGGAAAGGAGAGAGGGAAGGGAAGGAGGAGGAGGGTGAAGGGGAAGGAGGAAAGGG
GAGGGGGAAGAGGAGGAAGGGGAGGGGGAAGAGGAGGAAGGAGAAGGGAAAGGGGAGGAA
GAAGGGGAAGAAGGAGAAGGGGAGGAAGAAGGGGAGGAAGGAGAAGGGGAGGGGGAAGAG
GAGGAAGGAGAAGGGGAGGGGAGAAGGGAAGGAGAAGGGGAGGGAGAAGGAGGGAAGGA
GAAGGGGAGGGAGAAGGGAAGGAGAAGGGGAGGGAGAAGGAGGGAAGGAGAAGGGGAA
GGGAGGAGGAAGGAGAGGAAGGAGAAGGGGAGGGGAAGGAGGGAAGGAGAAGGGGAA
GGGAGGATGGAGAAGGGGAGGGGAAGGAGGGAAGGAGAATGGAGGGGGAAGGAGGAG
GAAGGAGAAGGGGAGGGGAAGGAGAAGGGAAGGGAAGGGGAGGGAAGGAGAAGGGGAG
GGGGAAGAGGAGGAAGGAGAAGGGGAGGGGAAGGAGGGAAGGGGAAGGAAGAAGGGGAG
GAAGAAGGAGAGGAGAGGAAGAAGGGGAGGGAGAAGGGGAGGAAGAAGGAAGGGGAA
GTGGAAGGGGAGGTGGAAGGGGAGGAAGGAGAGGGGGAAGGAGAGGAAGGAAGGAGAG
GAGGAAGGAGAAGAAAGGGAAAAAGGAGGGGGAAGGAGAAGAAAACAGGAGGAACAGAGAA
GAGGAGGAGGAAGAAGGGGAAATATCAGGAGACAGGCGAAGAAGAGAATGAAAGGCAG
GATGGAGAGGAGTACAAAAAGTGAGCAAATAAAAGGATCTGTGAAATATGGCAAACAT
AAAACATATCAAAAAAGTCAGTACTAACACACAGGAAATGGGAAAGAGCAGAGGTCC
AAAATGCCAGTCCAGTCAAAACGACTTTTAAAAAACGGGCCATCAGGTTCAAAAAAGTTC
TGAATAATGTATTACCACATTACTTGAATTGAAGTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001034853
- Insert Size:** 3500 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001034853.1.
- 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: [NM_001034853.1](#), [NP_001030025.1](#)

RefSeq Size: 4718 bp

RefSeq ORF: 3459 bp

Locus ID: 6103

UniProt ID: [Q92834](#)

Cytogenetics: Xp11.4

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein with a series of six RCC1-like domains (RLDs), characteristic of the highly conserved guanine nucleotide exchange factors. The encoded protein is found in the Golgi body and interacts with RPGRIP1. This protein localizes to the outer segment of rod photoreceptors and is essential for their viability. Mutations in this gene have been associated with X-linked retinitis pigmentosa (XLRP). Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length natures of only some have been determined. [provided by RefSeq, Dec 2008]
Transcript Variant: This variant (C) encodes the longest isoform (C).