

Product datasheet for **SC119976**

RPGR (NM_000328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPGR (NM_000328) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPGR
Synonyms:	COD1; CORDX1; CRD; orf15; PCDX; RP3; RP15; XLRP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119976 sequence for NM_000328 edited (data generated by NextGen Sequencing)

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ATGAGGGAGCCGGAAGAGCTGATGCCCGATTCCGGTGCTGTGTTACATTTGGGAAAAGT
AAATTTGCTGAAAATAATCCCGGTAAATTTCTGGTTAAAAATGATGTCCTGTACATCTT
TCATGTGGAGATGAACATTCTGCTGTTGTTACCGGAAATAATAAACTTTACATGTTTGGC
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CTTTTTATGTGGGGTGACAATTCGAAGGGCAAATTTGGTTAAAAAATGTAAGTAATGTC
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AATGCTGTGTATACCTTTGGGCTGGGACAATTTGGTCAGCTGGGTCTTGGCACTTTCTT
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Clone variation with respect to NM_000328.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000328 unedited
 TG TAGATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGTTTGTGACT
 TCCGGGAGCGCGTGTAGTTGATCTCCGGAGTTTCGCCATGCGGAACTTGGGGGCTTTC
 GCGGCCCGCGTCGGTGGGAGTAGCTGCTTTAGCCCCGACCAAACCGTCTCTACAGCCT
 CCTGGCCCCGCGCAGGCTGCCCGTACTGCCCGTGGCATGAGGGAGCCGGAAGAGCTGAT
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 TAAATTTCCGGTAAAAATGATGTCCCTGTACATCTTTCATGTGGAGATGAACATTCTGC
 GTTGTACCGGAAATAATAAACTTTACATGTTTGGCAGTAACAACCTGGGGTCAGTTAGG
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 ATATGCAACTGGTGGAAATAATGAAGGACAGCTGGGGCTTGGTGACCCGAAGAAAGACC
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 CAAAGGCCAATTGCTTTAAAAAATGTAAGTCATGTCTTGTGTCCCTTACCAGGGACCATT
 GGGAAACCTGTCTCCTGNATTCCTTGGGGATATTACCATTCACTTTTGTAAACACAGATGG
 TGAGCTTTTGTGTTTGAAGAAGTGAAGTGGAAATTAGGCTTCCAATCACTTCTCTGGCA
 TCCAAAACCCACCTGGGGTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000328 unedited
 TGGCCGCGCCGAATCTAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTAAACAGGGGAACTGACCAGATATAGTTTATTAATAATGTTTCATTATAAACAA
 TTTTACCTCAGTTTTGTAATAATGTAATAACATCAAAAACCTGTACAGGGTCGAAAAAT
 TGCAAATATTGCCTTATAAAATTATAAAGAAGTAAAATGTTTATGTAATAACTAGGAAAT
 ATTTTATTTCAATTTCCACATATAAAAAATATTTTTTTATTGCAATACTGAACAGTTAA
 GGCCACAACACTTTAGGGAGAATTTGAGATACACATATTTGAAATGACTTGTAAAAAT
 ATTAGCATAAAATAATCAAAAACCTGGTCACACTTATAGAAGCTGAATAAACATATTA
 GTCTTATATCTTTAAAGACTACTATCAAAAACCTTACTTCATAAGTTATAACATTTTTTC
 AAGTATACATTACAATCACTTGGGGACTGTGAAAACATAAATATATATTTATAGTATTG
 GACAGGATTTTGATCTTCTCTGTATTTGGGGGGGGATATTCTGATGATTCTGACTCA
 TGTGGTTCTGGTCGGCATCTTTATATCACTTTTTAAAAATGATCTGGCCCTCCTATGGAT
 TTATCTCTGGGAGCGGCTCATTGTTATTCTTGACAATCTTTTGATTTATTGAGGGGACTC
 TTTTGAACAAAAAATCTCTTTGTTTTTTCATGCCTTTGCTTGGGGGTGTTCACTGTTTC
 CTAGATTTCTAATGACTGCTATTTGATATCAACATGTTCCCTTGGGTTTTATGGACTCAC
 AATGGCCGTCCTCTAGTGGCTTTCCTTTTTTAAAAAGTTAAGTGACTTTTCATG

Restriction Sites:

NotI-NotI

ACCN:

NM_000328

Insert Size:

3240 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).

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_000328.2](#), [NP_000319.1](#)

RefSeq Size: 3082 bp

RefSeq ORF: 2448 bp

Locus ID: 6103

UniProt ID: [Q92834](#)

Cytogenetics: Xp11.4

Domains: RCC1

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 (A) uses an alternate splice site and contains multiple alternative exons in the 3' coding region, compared to variant C. The resulting isoform (A, also referred to as isoform 1) is shorter and has a distinct C-terminus, compared to isoform C.