

## Product datasheet for **RC220424**

### RPGR (NM\_000328) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPGR (NM_000328) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPGR
Synonyms:	COD1; CORDX1; CRD; orf15; PCDX; RP3; RP15; XLRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC220424 representing NM\_000328  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

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**Protein Sequence:** >RC220424 representing NM\_000328  
Red=Cloning site Green=Tags(s)

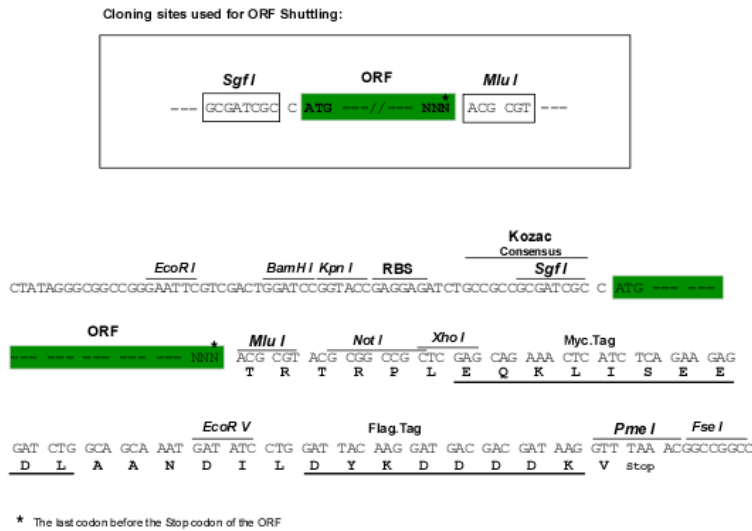
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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6484\\_g08.zip](https://cdn.origene.com/chromatograms/mk6484_g08.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_000328

ORF Size: 2445 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_000328.3](#)

**RefSeq Size:** 3082 bp

**RefSeq ORF:** 2448 bp

**Locus ID:** 6103

**UniProt ID:** [Q92834](#)

**Cytogenetics:** Xp11.4

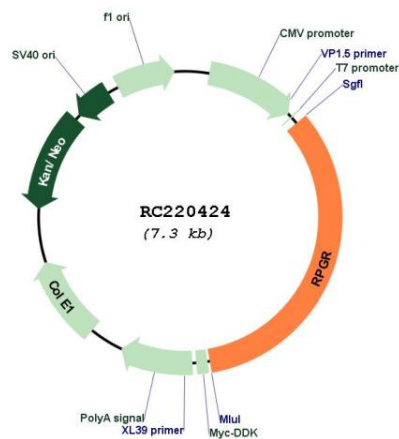
**Domains:** RCC1

**Protein Families:** Druggable Genome

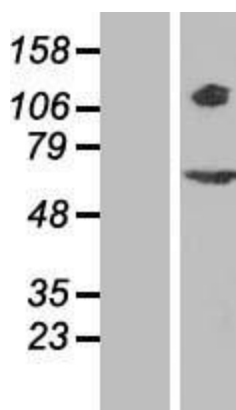
**MW:** 90.1 kDa

**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]

## Product images:



Circular map for RC220424



Western blot validation of overexpression lysate (Cat# [LY424796]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).