

## Product datasheet for RC229709

### PRRG1 (NM\_001173490) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRRG1 (NM_001173490) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRRG1
Synonyms:	PRGP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229709 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAGGGTTTTCTCACGGGAGAAAAAGCCAATTCCATATTTAAAACGCTACCCAAGAGCTAATGGGT  
TTTTTGAAGAAATAAGACAGGGCAACATTGAGCGTGAGTGCAAAGAAGAATTCTGTACATTTGAAGAAGC  
AAGAGAAGCTTTTAAAAATAATGAAAAACTAAGGAGTTTGGAGCACCTACACAAAAGCGCAACAAGGG  
GAGAGTAACCGAGGAAGTACTGGTTTCAGTTTTACCTTACCTTTCCGTTAATCTTTGGCCTCTTCATTA  
TCCTCCTTGTCATTTTCTAATCTGGAGATGCTTCCTAAGAAACAAAACCTCGTAGACAGACAGTGACTGA  
AGGCCACATTCCTTTCCCTCAGCACCTTAATATTATCACCCACCCCCCACCAGATGAAGTGTGGTGC  
AGCAGTGGATTGTCTCCAGGCTTCTGGGATATGTAGTTGGGCGCTCAGATTCCTCTCTACTCGCCTGT  
CCAATTGTGATCCCCGCAACCTATGAGGAAGCCACTGGCCAAGTGAACCTGCAGAGGAGTGAACAGA  
ACCTCATTTAGACCCACCCAGAGTATGAGGACATAGTCAACTCCAACCTCAGCCAGTGCCATTCCTATG  
GTGCCTGTGGTCACCACCATCAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229709 protein sequence  
Red=Cloning site Green=Tags(s)

MGRVFLTGEKANSILKRYPRANGFFEEIRQGNIERECKEEFCTFEEAREAFENNEKTKEFWSTYTKAQQG  
 ESNRGSDFQFYLTFFPLIFGLFIILLVIFLIWRCFLRNKTRRQTVTEGHIPFPQHLNIITPPPPDEVFD  
 SSGLSPGF LGYVGRSDSVSTRLSNCDPPPTYEEATGQVNLQRSETEPHLDPPPEYEDIVNSNSASAIPM  
 VPVVTTIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6529\\_b09.zip](https://cdn.origene.com/chromatograms/mk6529_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001173490

**ORF Size:** 654 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\\_001173490.1](#), [NP\\_001166961.1](#)

**RefSeq Size:** 4527 bp

**RefSeq ORF:** 657 bp

**Locus ID:** 5638

**UniProt ID:** [O14668](#)

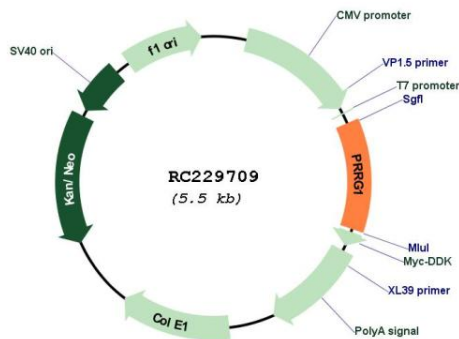
**Cytogenetics:** Xp21.1

**Protein Families:** Transmembrane

**MW:** 24.9 kDa

**Gene Summary:** This gene encodes a vitamin K-dependent, gamma-carboxyglutamic acid (Gla)-containing, single-pass transmembrane protein. This protein contains a Gla domain at the N-terminus, preceded by a propeptide sequence required for post-translational gamma-carboxylation of specific glutamic acid residues by a vitamin K-dependent gamma-carboxylase. The C-terminus is proline-rich containing PPXY and PXXP motifs found in a variety of signaling and cytoskeletal proteins. This gene is highly expressed in the spinal cord. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2010]

### Product images:



Circular map for RC229709