

Product datasheet for RG229509

PRRG1 (NM 001173486) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PRRG1 (NM_001173486) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: PRRG1

Synonyms: PRGP1

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG229509 representing NM_001173486
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGGAGGGTTTTCCTCACGGGAGAAAAAGCCAATTCCATATTAAAACGCTACCCAAGAGCTAATGGGT TTTTTGAAGAAATAAGACAGGGCAACATTGAGCGTGAGTGCAAAGAAGAATTCTGTACATTTGAAGAAGC AAGAGAAGCTTTTGAAAATAATGAAAAAACTGGTCTTGTTCTGTTGCCAAGGCTGGAGTGCAGCTGTGAA

CATGGCTCATTGCAGCCTCAACTTCCTGTGCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229509 representing NM_001173486

Red=Cloning site Green=Tags(s)

MGRVFLTGEKANSILKRYPRANGFFEEIRQGNIERECKEEFCTFEEAREAFENNEKTGLVLLPRLECSCE

HGSLQPQLPVPK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



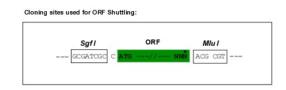
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

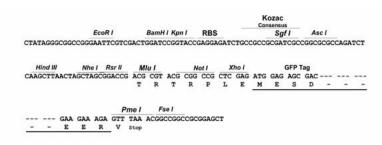
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

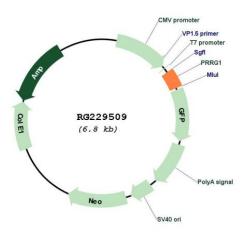


Cloning Scheme:





Plasmid Map:



ACCN: NM_001173486

ORF Size: 246 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



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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: <u>NM 001173486.2</u>

RefSeq Size: 1783 bp
RefSeq ORF: 249 bp
Locus ID: 5638
UniProt ID: 014668
Cytogenetics: Xp21.1

Protein Families: Transmembrane

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]