

Product datasheet for RC217565

PRRG3 (NM_024082) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PRRG3 (NM_024082) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PRRG3 |
| Synonyms: | PRGP3; TMG3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC217565 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGTGTCTGGAGGCCAAGGATGCCATTCCGGTCCTGAAACGATTCCCTCGTGCCAATGAGTTCC
TGGAGGAGCTGCGCCAGGGCACCATCGAGCGAGAGTGCATGGAGGAGATCTGCAGCTACGAGGAGGTCAA
GGAAGTGTGAGAACAAGAGAAAACGATGGAGTTCTGGAAAGGGTACCCAAATGCAGTCTACTCTGTC
CGAGACCCCTCGCAGAGCTCAGATGCCATGTATGTGGTGGTACCCCTTCTGGGGGTGCCACTGCTGATTG
TCATCGCCTTGTTCATCATCTGGAGGTGCCAGCTGCAGAAAGCGACCCGTCACCACCCCTCCTATGCTCA
GAACCGGTACCTAGCCAGTTCGCGCCGGGCACACCCCTCCCCGGGTTCATGGTGTACCGGGGTACTGTGCAT
AGCCAAGGGGAGCCTTCTGGGCACCGAGAGGCAGCGAGCAGCCCCAGGTGGTGTGGGGCCAGTCCGGG
GGGGCAGGACCACAGTCCGGCTAGAGAGCACCCCTACCTCCCTGAGCTCTCTCTCCAGACTGTCCAG
CACCACCCCTCCCCCTCCTACGAGGAGGTGACTGCGCCCAAGAGAGCAGCAGTGGAGGAGCCAGCGTG
TCTTACAGTGACCCACCCCAAAGTACGAGGAGATAGTGGCCGCCAACCCCTGGCGCTGACAAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217565 protein sequence
Red=Cloning site Green=Tags(s)

MAVFLEAKDAHSVLKRFPRANEFLEELRQGTIERECMEEICSYEEVKEVFENKEKTMFWKGYPNAVYSV
 RDPSQSSDAMYVVVPLLGVALLIVIALFIIWRCQLQKATRHHPSSYAQNRYLASRAGHTLPRVMVYRGTVH
 SQGEPHSGHREAASSPQVVLGSRGGRTTVRLESTLYLPELSSLRLSSTTPPPSYEEVTAPOESSESEASV
 SYSDPPPKYEEIIVAANPGADK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6440_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024082

ORF Size: 693 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_024082.1](#)

RefSeq Size: 1303 bp

RefSeq ORF: 696 bp

Locus ID: 79057

UniProt ID: [Q9BZD7](#)

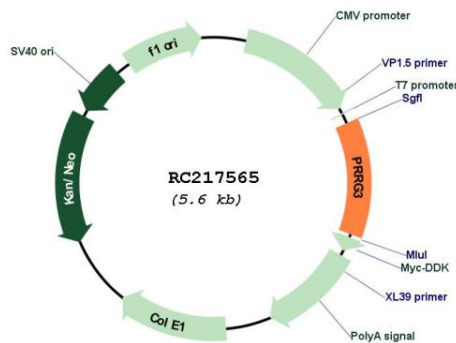
Cytogenetics: Xq28

Protein Families: Transmembrane

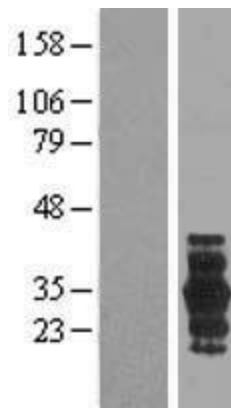
MW: 25.8 kDa

Gene Summary: This gene encodes a protein which contains a vitamin K-dependent carboxylation/gamma-carboxyglutamic domain. The encoded protein is a member of a family of vitamin K-dependent transmembrane proteins which contain a glutamate-rich extracellular domain. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC217565



Western blot validation of overexpression lysate (Cat# [LY411355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217565 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).