

Product datasheet for **RC219911**

PRB1 (NM_199354) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRB1 (NM_199354) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PRB1
Synonyms: PM; PMF; PMS; PRB1L; PRB1M
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC219911 representing NM_199354
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTGATTCTGCTGTCAAGTGGCCTTGTGGCCCTGAGCTCAGCTCAGAAGTAAATGAAGATGTCA
GCCAGGAAGAATCTCCCTCCCTAATAGCAGGAAATCCACAAGGACCATCCCCACAAGGAGGCAACAAGCC
CCAAGGCCCCACCTCCTCCAGGAAAGCCACAAGGACCACCCCAAGGAGGCAACAACCTCAAGGT
CCCCTACCTCCAGGAAAGCCACAAGGACCACCCCAAGGGACAAGTCCCGAAGTCCCGATCTCCTC
CAGGAAAACCAAGGACCACCCCAAGGAGGAAAGCCACAAGGACCACCCGACAAGGAGGCAGCAA
GTCCCAAAGTGCCCGAGCTCCTCCAGGAAAGCCACAAGGACCACCCCAACAAGAAGGCAACAATCTCAA
GGTCCCCACCTCCAGCAGGAGGCAATCCCCAGCAGCCTCAGGCACCTCTGCTGGACAGCCCCAGGGAC
CACCACGCCCTCTCAAGGGGGCAGACCTTCCAGACCTCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219911 representing NM_199354
Red=Cloning site Green=Tags(s)

MLLILLSVALLALSSAQNLDVDSQEEPSLIAGNPQGSPQGGNKPQGP PPPGKPGQPPPPQGGNKPQG
PLPPGKPGQPPPGDKSRSRSPPGKPGQPPPPQGGKPGPPAQQGSKSQSARAPPKPGQPPPPQEGNNPQ
GPPPPAGGNPQQPAPPAGQPQGP RPPPPQGRPSRPPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6505_e09.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199354

ORF Size: 534 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_199354.2](#)

RefSeq Size: 714 bp

RefSeq ORF: 537 bp

Locus ID: 5542

UniProt ID: [P04280](#)

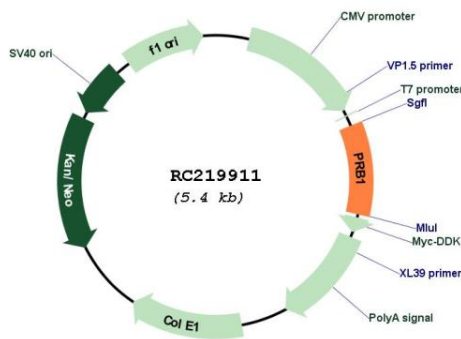
Cytogenetics: 12p13.2

Protein Families: Druggable Genome

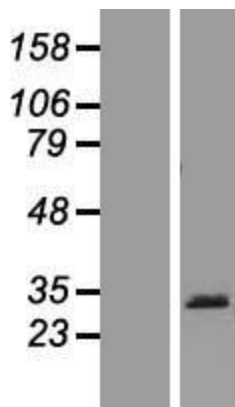
MW: 16 kDa

Gene Summary: This gene encodes a member of the heterogeneous family of basic, proline-rich, human salivary glycoproteins. The encoded preproprotein undergoes proteolytic processing to generate one or more mature peptides before secretion from the parotid glands. Multiple alleles of this gene exhibiting variations in the length of the tandem repeats have been identified. The reference genome encodes the "Medium" allele. This gene is located in a cluster of closely related salivary proline-rich proteins on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Nov 2015]

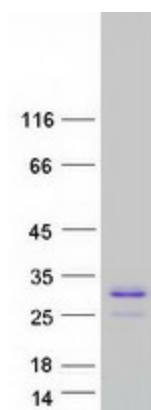
Product images:



Circular map for RC219911



Western blot validation of overexpression lysate (Cat# [LY404537]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219911 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRB1 protein (Cat# [TP319911]). The protein was produced from HEK293T cells transfected with PRB1 cDNA clone (Cat# RC219911) using MegaTran 2.0 (Cat# [TT210002]).