

Product datasheet for RC218178

PRB1 (NM_005039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRB1 (NM_005039) 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:	>RC218178 representing NM_005039 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTGATTCTGCTGTCTCAGTGGCCTTGCTGGCCCTGAGCTCAGCTCAGAACTAAATGAAGATGTCA
GCCAGGAAGAATCTCCCTCCCTAATAGCAGGAAATCCACAAGGACCATCCCCACAAGGAGGCAACAAGCC
CCAGGGCCCCCACCTCCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGAGGCAACAACCTCAAGGT
CCCCCACCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGGACAAGTCCCGAAGTCCCCGATCTCCTC
CAGGAAAACCACAAGGACCACCCCCACAAGGAGGTAACCAGCCCCAAGGTCCCCACCTCCTCCAGGAAA
GCCACAAGGACCACCCCCACAAGGAGGCAACAGACCTCAAGGTCCCCCACCTCCAGGAAAGCCACAAGGA
CCACCCCCACAAGGAGACAAGTCCCGAAGTCCCGATCTCCTCCAGGAAAGCCACAAGGACCACCCCCAC
AAGGAGGTAACCAACCCCAAGGTCCCCCACCTCCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGAGG
CAAGAAACCTCAGGGTCCCCCACCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGAGACAAGTCCCGA
AGTTCCAATCTCCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGAGGCAACCAAGGTCCCCCACCTC
CACCTCCTCCAGGAAAGCCACAAGGACCACCCCCACAAGGAGGCAACAACCTCAAGGTCCCCCACCTCC
AGGAAAGCCACAAGGACCACCCGCACAAGGAGGCAAGTCCCAAGTCCCGATCTCCTCCAGGAAAG
CCACAAGGACCACCCCAACAAGAAGGCAACAATCCTCAAGGTCCCCCACCTCCAGCAGGAGGCAATCCCC
AGCAGCCTCAGGACCTCCTGCTGGACAGCCCCAGGACCACCACGCCCTCCTCAAGGGGCAGACCTTC
CAGACCTCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218178 representing NM_005039
 Red=Cloning site Green=Tags(s)

MLLILLSVALLALSSAQNLDVDSQEEPSLIAGNPQGPSPQGGNKPQGPPPPGKPGPPPPQGGNKPQG
 PPPPGKPGPPPPQGDKSRSPRSPPGKPGPPPPQGGNQPQGPPPPGKPGPPPPQGGNRPQGPPPPGKPGQ
 PPPQGDKSRSPRSPPGKPGPPPPQGGNQPQGPPPPGKPGPPPPQGGKPGPPPPGKPGPPPPQGDKSR
 SSQSPPGKPGPPPPQGGNQPQGPPPPGKPGPPPPQGGNKPQGPPPPGKPGPPPAQGGSKSQSARSPPGK
 PQGPPQEGNNPQGPPPPAGGNPQQPQAPPAGQPQGPPRPPQGGRRSPRPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_f10.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_005039

ORF Size: 993 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_005039.3](#)

RefSeq Size: 1173 bp

RefSeq ORF: 996 bp

Locus ID: 5542

UniProt ID: [P04280](#)

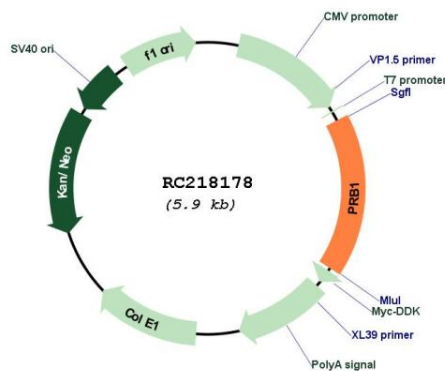
Cytogenetics: 12p13.2

Protein Families: Druggable Genome

MW: 32.61 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 RC218178