

## Product datasheet for **RR212479**

### Prom2 (NM\_138857) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prom2 (NM_138857) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prom2
Synonyms:	Prom-rp; Promrp; Trprp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212479 representing NM\_138857  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCGCAGCTCGACCTCATGGTGCCTCTGCTGGCCTAAGCCTGGGACTGGCCCTGAGCCTGCCCC  
 GAGCTGTGGCAGCGGACTGCGGGTCCCTCGGGCGCGTGGAGCACCTGGCATTTCGCTCCGGTGCCCGGAC  
 AGAACCGACAGCCCTCGTGTCCGCGCGCGTGGCCCTGGACTCCCTCTATGGACCGTGGAGACGATTC  
 CTCTCCGTGGTTCAGCTTAACCCCTTCCCGGCAGAGTTGATAAAGACCCTCTAAATGATCCATCTTCTG  
 TGAAGACAGATGAGGTGGTCCGGTATGAGGCGGGCTACGTGGTGTGCGCTGTGATTGCTGGCCTCTACCT  
 CCTATTGGTACCCATCACTGGGCTCTGCTTCTGTTGTTGCCGATGCCGCCGGCGTGCAGGGGACAGGGT  
 AAGACGGAGCACAAAGCCATGGCCTGTGAACGTGGCACCTCATGACCTCCTGCTGCTGACCACCCTCA  
 TGCTTCTGATCGGTATGGTCTGTGCTTTTGTACTAACCAGTTACACACAGTCAGACGGCCCCAGTGT  
 GGAAGCGTCCCCGAGACCCTGCTCAGCCTAAGAGGCTTGGTCTCTGACGTTCTAAAAAGCTGCAGGCC  
 GTGGCTGATCAGTTCTCCTTGCCTCAGAAGCAAGTCTCAAAGGATCTGGATGGTGTCCGGTGAAGACCTTG  
 GGAATATAATTCATAACCAACTCAAGAGCACAGTGTACCCAGTGCTAGCCTCAGTGCACGGCCTGGGCCA  
 GGCCCTGCAGGTCTCCATAGACCACCTTCAAAGCGTGAACGCCACCTCAGTGGAGCTGCGGGAGGGGACG  
 CAGCACCTGGGACCACCTGTGCAGGCACACCGGGAGCGCCTGCTCGCCCTGCTTCAGGAGAGCTGGTGCC  
 ACGAGAAGTCAAGGGGGCCCTGAGCCAGGCCAGTGTCTGCAACTGGGTGCTGACTTTAGCCAGATGCC  
 CCCTGTGGATGACGTCTGCATCGGCTGCAGGGTGTCCAGAAGCCAACCTTCCAGCATGGTCCAGGAG  
 GAGAAGCCACCTTCAATAACCTCCCTATCCTGGTTCATATGCAGATGGTCAAGTGTGGTCAAAGACTGA  
 AAAAGGCACTGGTGTGAGCAGCTGAAGGTGTGAGGATGCTGGCCCAAGCGTTCCAGGTCAGAGGCAAC  
 TTCCCGCTGGAGCCAGGCGCTGGAGGGGCTGGAGCAGCGCAGCCGCCCTACTTACAGGATGTGCAGCGA  
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 TGCTGGCCTCAGCCTAGGCATCTGGGGTTGTTTGCAGGGAGGACCCAGCCACTCTGAAACCAAGGG  
 CGAGGCTGGAGCCGCTTCCATAGGCAGGTGTGGCCTCAGCTTCTCTTTGCAGCCCCCTCATCCTC  
 CTTGTCTCGCCACTTCCCTGGTGGTGGCAACGTGCAGACGCTGGTGTGCCGGAGCTGGGAGAGTGGAG  
 AGCTGTACGAGTTTGTGGACACCCCGGGAACTGCCCCATCCATGAACCTGTCTACATTCTTGGCCT  
 GAGGAAGAACATCAGCGTCTCCAGGCCTATCGACAGTGAAGGCAGGGACAGCACTCTGGAAGGTTCTA  
 CAGCTCAATGACTCCTATGACCTGGATAAGCACCTGGATATCAAACAGTATACCCATAAGCTTCAGCAGG  
 AGCTTCAAAGCTTCAAAGTAGATCTGAAGGATCTAGACCTGTTGAATCCTGCTGCCCGCCAGAACCTGGA  
 GGCTTTCAGAGTAGCGGGCTGGAGAAAATCCACTACAGAGACTTCCCTGTACAGATCCAGAAGCCTGTG  
 GTGAAGACTGACATGGGGCAGCTGGCGAAGGAGCTGGAAGGACTGGCCCAGGCCATAATGAATCTTTAC  
 GGAGGCAGCAGCTACAGGAGGAGGCCAGAGAACCTCGAAGCCTCTACCAGGAGAAGGTTGCCCCCAGGA  
 GAACCTTGTGGCCAAGCTCAACCCAGCATCAGGGTCTTGGAGTCCCTCAGCCCCAAAAGTGCAGGTGAAT  
 ACCTCAGACCTTCTTGACATAGTCGCCCGTCTTAAAGGAGAGTGCCTGCTCAGCTCAACCACATCCTGA  
 GGAATGCCACTGAGTGTTCCTGACCAGGAAAAGGGCTACTTCTCTCAGTATGTGACCTGGGTGAGGGA  
 AGAGGTGACTCAGCACATCGCCACCTGCCAGCCCTTCTCTAAAGCCCTGGACGATGGTCAATGATCCTG  
 TGTGACATGATGGGCAACCCCTGGAATGCCTTCTGTTCTGCCTGGGCTGGTGCACCTTCTTCTCCTATC  
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 GCTCCGAAGAGACACAGCTTTCATATCCCCAGGGTCACTCCCTGAAGCTATAGAACCACCGGGGCAA  
 GGTGATACCTGGGGTTTCTGTCTTCTTCTTGTCTCAGCCTGGACCAGACGACATCTGTAACCTCTG  
 TTCAGAGCCAGGCTGGCCTCTAGTGTGGGTTGTCTCCAGTCCACATTTGACTCTTTCTGCTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212479 representing NM\_138857  
 Red=Cloning site Green=Tags(s)

MTRTLDMVPLLGLSLGLALSLPRAVAADCGSLGRVEHLAFAPVPGTEPTAPRVRAPWPLDSL YGTVRRF  
 LSVVQLNPFPAELIKTLLNDPSSVKTDEVVRYEAGYVVCAVIAGLYLLL VPITGLCFCCRCRRRCGGRV  
 KTEHKAMACERGLMTFLLL TLLMLLIGMVCAFATNQFTHSQTGPSVEAVPETLLSLRGLVSDVPKLLQA  
 VADQFSLPQKQVSKDL DGVGENLGNIIHNQLKSTVYPVLASVHGLGQALQV SIDHLQSVNATSVELREGQ  
 QHLGPPVQAHRRERLLALLQE SWCHENCKGALSQASALQLGADF SQMPPVDDVLHRLQGVPEANFSSMVQE  
 ENATFNLLPILVHMQMSVVKDLK KALAEQPEGVRMLAQAFPGEATSRWSQALEGLEQRSRPYLQDVQR  
 YETYRWILGCVLCSA ILLVVICNLLGLSLGIWGLFAREDPSHSETKGEAGARFLMAGVAFSFLFAAPLIL  
 LVFATFLVGGNVQTLVCRSWESGELYEFV DTPGNLPPSMNL SYILGLRKNISVFQAYRQCKAGTALWKVL  
 QLNSYDLDKHLDIKQYTHKLQELQSFKVDLKDLDLLNPAARQNL EALQSSGLEKIH YRDFLVQIQKPV  
 VKTDMGQLAKELEGLAQAHNESLRRQQLQEEAREL RSLYQEKVVPQENL VAKLNPSIRVLESSAPKLQVN  
 TSDLLDIVARLKGELPAQLNHILRNATECFL TREMGYFSQYVTVVREEVTQHIATCQPF SKALDDGHMIL  
 CDMMGQPLECLL VLPGLVHLLPHPQHHLRGQDLQVLP SHPETAQLHQLRRDTALPYPQGHLEAIEPTGQ  
 GDTWGFVLLPCLSLDQTT SVTSVPEPRLASSAGLSPVPHLYSFC S

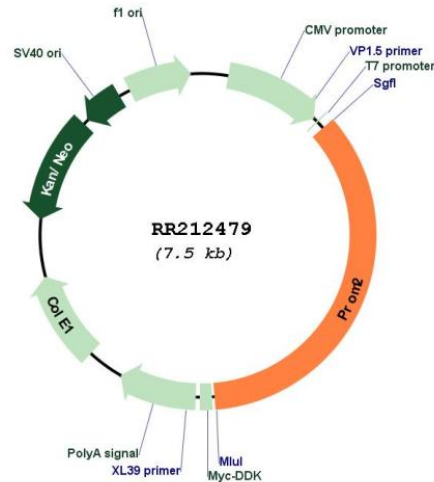
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_138857

**ORF Size:** 2658 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\\_138857.1](#), [NP\\_620212.1](#)

**RefSeq Size:** 4294 bp

**RefSeq ORF:** 2661 bp

**Locus ID:** 192211

**UniProt ID:** [Q8CJ52](#)

**Cytogenetics:** 3q36

**MW:** 97.9 kDa

**Gene Summary:** polytopic membrane glycoprotein structurally related to prominin-1; may function in plasma membrane microdomains [RGD, Feb 2006]