

## Product datasheet for **RR200327**

### Prom1 (NM\_001110137) Rat Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Prom1 (NM_001110137) Rat Tagged ORF Clone |
| Tag:                      | Myc-DDK                                   |
| Symbol:                   | Prom1                                     |
| Synonyms:                 | CD133; Prom                               |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RR200327 representing NM\_001110137  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTCGTATTCAGTGTCTGCTGCTACTGGGCTGTGTGGAAGATGGCTTCAGGAGTCAAGCTG  
 CATTTCGATAACACTCCCGGGCTTTGAATTATGAATTGCCTACCCACAGAATATGAGACCCAAAGACACCTT  
 CAATGCTGGGATTATTGACCCTCTCTACCAATGGTGCACATCTTCTCAACGTGGTCCAGCCGAATGAC  
 TTCCCTCAAGATTTGGTCAAAAACTCATAACAGAGAGTTTGACATCTCGGTTGATACCAAGGAGGTGCG  
 CCATCTATGAAATGGAGTTCTTATCTGCGTCATCTGGGCTGCTGTTCAATTTCTCATGCCCTGGT  
 GGGCTTCTTTTGTATGTGCCGTTGCTGTAACAAATGCGGCGGAGAAATGCACCAGCGGCAGAAGCAG  
 AACGAGTCGTGCCGAGGAAGTCTTAGCCATCTCCCTCTGCTGATTTGCTGCTCATGAGTCTTGCCA  
 TCGCGTTTGGCTTTGTGGCAACCAGCAGACAAGGACTCGGATCCAAAGGACCCAGAAGCTGGCAGAGAG  
 CAATTACAGAGACTTGGGGCTCTCCTGACTGAAGCCCCAAAGCAAATCGACTATATTCTGGGGCAATAC  
 AACACAACCAAGAACAAGGCATTCTCAGACCTGGACAGTATCGATTCCGTGCTGGGAGGCAGAATAAAGG  
 GCCAACTAAAACCCAAAGTTACTCCTGTTCTCGAAGAGATTAAGGCCATGGCAACAGCCATTAGACAGAC  
 CAAGGATGCCCTGCAGAACATGAGCAGCAGTCTGAAAAGTCTACGTGACGCAAGCACCCAGCTCAGTACC  
 AACCTGACGTCTGTGAGAAAACAGCATCGAGAATCACTCAACAGCAACGACTGTGCTTCAGACCCAGCCA  
 GCAAGATCTGTGATAGCCTCAGACCACAGCTGAGCAATCTGGGGAGCAACCACAACGGAAGTCAAGTCCC  
 ATCAGTGGACAGGGAACCAACACCGTTAATGATGTGACAGAACCGATCTGGAGAGCCTCGTAAAAGG  
 GGGTATATGTCGATTGATGAAATACCAATATGATACAAAACCAAAGTGGGATGTCATCAAAGATGTC  
 AAAAGACCTTGGATTCTGTTAGTCCAAGTTAAGAACATGAGCCAAAGTATTCCTGTCGAGGAGTGTG  
 GCTTCAGTCTCCCACTACCTTAATGACAGCAACAGGTACATCCACGAGTCGCTGCCAGAGTGGAAAGAA  
 TATGACTCATACTGGTGGCTGGGTGGCTTAATAGTCTGCTTCTGCTGACCCCTATTGTGACTTTCTTTT  
 ACCTGGGCTTGTGTGGTGTGTTGGCTATGACAAGCGTGCCACCCCAACCAGAAGAGGCTGCGTGTG  
 CAACACTGGAGGCATCTTCTCATGGCTGGGTTGGATTAGCTTCTTTTGGTGGATATTGATGATC  
 CTTGTGGTTCTTACTTTTGTGTTGGTGCAAATGTGAAAAGTTGCTCTGTGAACCTTATGAAAACAAGA  
 AATTACTACAGGTTTGGATACTCCCTACCTGCTCAACGATCAATGGCAATCTATCTCTGTCATACT  
 ACTCAAAAACCCAGACATTAACATGACCTTTGAGCAAGTCTACAGGGATTGCAAAAAGAGGTCGAGGAGTG  
 TATGCCACTTTTCAGCTTGAATGTCTTCAACATCACTGAGAATTTCAACATTGAGAGGCTTTCTGAAG  
 ACATAGTGAAGGAGTTGGAAAAGCTGAATGTGAACATTGACAGCATCGAACTGTTGGACAAAACAGGAAG  
 GAAGAGCCTCGAGGACTTTGCACAATCTGGGATAGATAGAATCAATTAATCCATGTACTTACAGGAGGCT  
 GAGAAAACCCCTACCAAAGTGGACCTGCTGACATTTGCCTTTTTCTGGAAAACAGAAGCAAACAGTTGC  
 CTGACGGAAATCTGAAACAGGCCTTCTTAATGGATGCACAGAACATTCGAGCCATCCACCAGCAGCAGT  
 CCCTCCTGTGCAGCAGTCACTGAATTCATTAACAACAAAGTGTCTGGGCCCTTAAGCAAACAAGCAGCAAG  
 TTGCCGGAGGAAGTGAAGAAGGTCCTTGCCTCTTTGGATTCTGCTCAGCATTTCTCACCAGTAACCTCT  
 CCTCCATCGTTATTGGAGAAAACAAGAAGTTGGGAGAACAAATAATAGGCTACTTTGAACATTATCTGCA  
 ATGGGTCTGTACGCCATCACAGAGAAGATGACATCCTGCAAACCCATGATTACAGCAATGGACTCTGCT  
 GTTAATGGCATTCTGTAGCTATGTTGCTGACCCTCTGAATCTGTTCTGGTTCGGCATAGGGAAGGCCA  
 CCATGCTCTTACTCCGCTGTAATCATCGCTATCAAGTTGGCCAAGTACTATCGCAGGATGGATTGAGA  
 GGATGTATATGATGACCCGTCTCGATAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200327 representing NM\_001110137  
 Red=Cloning site Green=Tags(s)

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MALVFSVLLLLGLCGKMASGGQPAFDNTPGALNYELPTTEYETQDTFNAGIIDPLYQMVHIFLNVVQPND
FPQDLVKKLIQKRFDISVDTKEVAIYEIGVLICVILGLLFIFLMPLVGFFFCMCRCCKKCGGEMHQKQKQ
NESCRKCLAIISLLLICLLMSLGIAGFVANQQTRTRIQRQKLAESNYRDLRALLTEAPKQIDYILGQY
NTTKNKAFSDLSDSVLGGRIKQKPKVTPVLEEIKAMATAIRQTKDALQNMSSSLKSLRDASTQLST
NLTSVRNSIENSLNSNDCASDPASKICDSLRLPQLSNLGSNHNGSQLPSVDRELNTVNDVDRTDLESVLR
GYMSIDEIPNMIQNQTGDVIKDVKKTLDVSSKVKNMSQSIPVEEVLLQFSHYLNDSNRYIHESLPRVEE
YDSYWWLGGIVCFLLTLIVTFFYLGLLGGVFGYDKRATPTRRGCVSNTGGIFLMAGVGFSLFCWILMI
LVVLTFFVVGANVEKLLCEPYENKLLQVLDTPYLLNDQWQFYLSGILLKNPDINMTFEQVYRDCKRGRGV
YATFQLENVFNITENFNIERLSEDIKLEKLVNIDSIELLDKTGRKSLEDFAQSGIDRINYSMYLQEA
EKPPTKVDLLTFASFLETEANQLPDGNLKQAFMDAQNIRAIHQHVPPVQQLNSLKQSVWALKQTSSK
LPEEVKVLASLDAQHFLTSNLSSIVIGETKKFGRTIIGYFEHYLQWVLYAITEKMTSCKPMITAMDSA
VNGILCSYVADPLNLFWFGIGKATMLLLPAVIIAIKLAKEYRRMDESDVYDDPSRY
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001110137

**ORF Size:** 2478 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\\_001110137.1](#), [NP\\_001103607.1](#)

**RefSeq Size:** 3554 bp

**RefSeq ORF:** 2481 bp

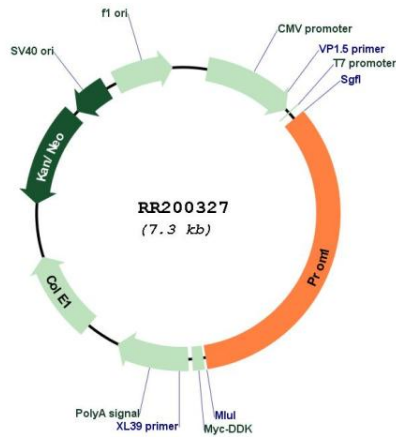
**Locus ID:** 60357

**Cytogenetics:** 14q21

**MW:** 93.2 kDa

**Gene Summary:** induces expression of 3-phosphate glyceraldehyde dehydrogenase (GAPDH); may play a role in glucose homeostasis [RGD, Feb 2006]

**Product images:**



Circular map for RR200327