

## Product datasheet for **RR217095**

### **Gpsm2 (NM\_001191962) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpsm2 (NM_001191962) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpsm2
Synonyms:	RGD1560967
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RR217095 representing NM\_001191962  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGGGAAATTTGATGAGCATGAGGGAAGACCATTCTTTTCATGTCCGCTACAGAATGGAAGCTTCTT  
 GCCTCGAGCTGGCCTTGAAGGAGAACGTCTGTGTAAATCAGGGGACTGCCGCGCTGGCGTTTCGTTTTT  
 TGAAGCCGCGTTCAAGTTGGAAGCTGAAGACCTGAAAACGCTCAGTGCTATTTACAGCCAGCTGGGCAAC  
 GCTTACTTCTACTTACACGACTACGCCAAGGCGTAGAGTACCACCACCATGACTTAACCTGGCGAGGA  
 CTATTGGAGACCAGCTCGGGGAAGCGAAAGCCAGCGGCAATCTTGGAAACACCTTGAAGGTGCTTGGGAA  
 CTTTCGATGAAGCGATAGTGTGTTGCCAGCGACACCTGGATATCTCCAGAGAACTTAATGACAAGGTGGGA  
 GAAGCAAGAGCTCTATAATCTTGGAAATGTGTATCACGCCAAAGGGAAAAGTTTCGGTGCACAGGTC  
 CACAAGATGTAGGAGAGTTTCCAGAAGAAGTGAGGCTCGCCCTACAGGCAGCTGTGGAGCTCTATGAGGA  
 AAACCTGTGTTAGTAACTGCTCTAGGTGACCGAGCAGCCAGGGACGAGCCTTTGGGAACCTCGGCAAC  
 ACACACTACCTCCTCGGCAACTCAGGGATGCCGTTATAGCTCATGAGCAGCGTCTCCTGATTGCAAAAAG  
 AGTTCCGGAGATAAGGCGGCCGAAAGAAGAGCGTACAGCAACCTCGGAAATGCGTACATATTCCTTGGTGA  
 ATTCGAAACTGCTTCCGAATACTACAGGAAGACACTGCTGCTGGCTCGGCAGCTGAAAGACAGAGCCGTG  
 GAAGCTCAGTCCCTGCTACAGTCTTGGGAATACATACACTCTGCTCAGGACTACGAGAAGGCCATCGAGT  
 ACCACCTCAAGCACTTAGCGATTGCCAGGAGCTCAAGGATCGAATTGGTGAAGGAGAGCGTGTGGAG  
 TTTAGGAAATGCATACACGGCTCTAGGAAATCATGACCAAGCAATGCATTTTGTGAAAAGCACTTGGAA  
 ATTTCAAGAGAGGTTGGGGACAAAAGCGGCGAGCTGACTGCACGGCTGAACCTCTCAGACCTGCAGATGG  
 TTCTTGGTCTGAGCTATAGCACAATAATTCCATGATGTCTGAGAACATCGAAATCGATGGCAGCTTACA  
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 AAGGTCCCGAATTGGAACAGTGAATTTCTCGCTAAACAGAAACCTTGCATTGCCAAATCGTCTGCAAAGC  
 TCCTATTTGTCAACAGACTGAAGGGGAAAAAGTCCAAAAGCGGCAGCGCCTCCACTAAGGCTCTCCACCA  
 CGCCAGCAACCCCATCGACCACCGCGCTCCACATGCCAGAAGAAAGTGGCTCGGACGCGGTGGAGAT  
 GAGGGATTCTTTGACTTACTGAGGCGACTTACAGCAGCAGGATGGAGGACCAGAGGTGCCACTTACAGG  
 AGAACCGGACAGCGTCCGTGGCCGCTTCTCTGCTACCCCAAGATGGTGAAGCACCGTCCGCTTCTGT  
 GGTATCCCCCAACACCGATGAGTTTTTAGATCTCCTTGTAGCTCGCAGAGCCCGCTGGATGACCAG  
 AGGGCCAGCTTCAAGTATTTGCCAGGGCTCCGTCTGACAGAAGGCAACAATCAGTCCGACTTGGAGCC  
 TGATGACAAATGACAAGAAAGAGCCTGATGAGGACTTCTTTGACATCCTTGTAAAGTGTCAGGGGTCCAG  
 GTTAGATGATCAGAGATGTGCTCCACCCTGCTGCCACAAGGGGCGGACTGTCCCGACGAAGACTTT  
 TTTAGCCTCATTTTACGCTCTCAAGCTAAAAGGATGGATGAACAAAGAGTTCTGCTACAGAGAGATCCAA  
 ACAGGGACAGTGAGTTTGGACTAAAGGAACTTTTGCAAAATAATGCTCTGTTGGAATTTAAGCATTACAGG  
 GAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217095 representing NM\_001191962  
Red=Cloning site Green=Tags(s)

MEGNLMSMREDHSFHVYRMEASCLELALALEGERLCKSGDCRAGVSFFEAAVQVGTEDLKTLSAIYSQLGN  
 AYFYLDHYAKALEYHHHDLTLARTIGDQLGEAKASGNLGNLTKVLGNFDEAIVCCQRHLDISRELNKVG  
 EARALYNLGNVYHAKGKSFSGCPGPDVGEFPEEVRLALQAAVELYEENLSLVTALGDRAAQGRAFGNLGN  
 THYLLGNFRDAVIAHEQRLLIAKEFGDKAAERRAYSNLGNAYIFLGEFETASEYYRKTLLARQLKDRAV  
 EAQSCYSLGNTYTLQDYEKAIEYHLKHLAIAQELKDRIGEGRACWSLGNAYTALGNHDQAMHFAEKHLE  
 ISREVDKSGELTARLNLSDLQMVGLSYSTNNSMSENIEIDGSLHGAGTKLGRRHSMENMELMKLTPE  
 KVPNWNSEILAKQKPCIAKSSAKLLFVNRLKGGKSKSGSASTKALHHSNPIDHRAPHAQKKGSDAVGD  
 EGFFDLLRRLQSSRMEDQRCHLQENRTASVAASSATPKMVKAPSASVSPNTDEFLLDASSQSRRLDDQ  
 RASFNLPLRLTEGNNQSVLERLMTNDKKEPDEDFDILVKCQGSRLDDQRCAPPPAATKGPTVPDEDF  
 FSLILRSQAKRMDEQRVLLQRDPNRDSEFGLKELLQNNALLEFKHSGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001191962

**ORF Size:** 2034 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\_001191962.1, NP\_001178891.1

**RefSeq Size:** 2516 bp

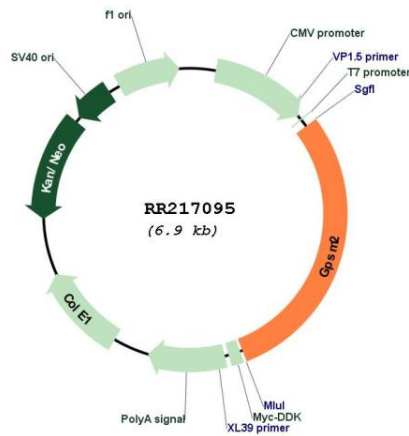
**RefSeq ORF:** 2037 bp

**Locus ID:** 362021

**Cytogenetics:** 2q34

**MW:** 75.4 kDa

**Product images:**



Circular map for RR217095