

## Product datasheet for **RN216777**

### **Gps1 (NM\_001270939) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gps1 (NM_001270939) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gps1
Synonyms:	MFH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN216777 representing NM\_001270939  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGCTGCCGTTTCAAGTGTAACTTCAGGGGGCCGTGGAACCCATGCAGATTGATGTAGATCCGC  
AGGAAGATCCCCAGAACGCACCTGATGTCAACTACGTGGTGGAGAACCCACCCTGGATCTGGAGCAGTA  
TGCAGCCAGCTACAGTGGTCTGATGCGTATTGAGCGGCTACAGTTTATTGCTGACCGCTGCCCTCCGTTG  
CGAGTGGAGGCCCTGAAAATGGCTCTGTCTTCGTGCAGAGGACCTTCAATGTGGACATGTATGAAGAGA  
TACACCGGAAGCTCTCTGAGGCTACCAGGGAGCTGCAGAATGCACCTGATGCCATCCCTGAGAGTGGAGT  
GGAGCCCCACCCTGGACACAGCCTGGGTGGAGGCCACTCGGAAGAAGGCCCTGTTGAACTGGAGAAG  
TTAGACACGGACTTGAAGAACTACAAGGGCAATCTATCAAGGAGAGCATCAGGCGGCCATGATGACC  
TGGGTGACCACTACCTGGACTGTGGGACCTCAGCAATGCCCTCAAGTGTATTTCGCGAGCCCGAGACTA  
CTGCACCAGTGCTAAGCATGTCAACATGTGCCTCAATGTCATCAAGTCAAGTGTCTACTTGCAGAAT  
TGGTCTCATGTGTTAAGCTATGTGAGCAAGGCTGAGTCTACTCCAGAGATTGCTGAGCAGCGGGGAGAGC  
GGGACAGCCAGACTCAAGCCATCCTCACAAGCTCAAGTGTGCTGCAGGCTTGGCTGAGCTGGCTGCACG  
AAAGTATAAGCAAGCTGCCAAGTGTCTCCTTCTGGCTTCTTTGATCACTGTGATTTCCAGAGCTGCTG  
TCCCCAGCAATGTGGCTGTCTATGGTGGCCTATGTGCCTTAGCCACCTTGACCGGCAGGAGCTGCAAC  
GCAATGTCATCTCCAGCAGCTCCTTCAAGTGTTCCTGGAGCTGGAGCCACAGGTGAGAGACATCATCTT  
CAAATTTTATGAGTCCAAGTATGCCTCATGCTTGAAGATGTTGGACGAGATGAAGACAACCTGCTCCTG  
GACATGTACCTGGCCCCCAGCTCAGTACAGCACTGTATACCCAGATCCGTAACCGGGCTCTCATCCAATACT  
TCAGCCCCTATGTGTGAGCTGATATGCACAAGATGGCTGCTGCCTTCAACACAACAGTTGCAGCTCTGGA  
GGATGAGCTCACACAGCTCATCCTGGAGGGCCTTATTAATGCCCGCATCGACTCACACAGCAAGATACTG  
TATGCTCGAGACGTGGATCAGCGTAGCACACCTTTGAGAAGTCCCTGCTGATGGCAAGGAGTTCCAAC  
GACGGGCCAAAGCCATGATTCTGAGAGCAGCTGTGCTACGCAACCAGATCCATGTCAAGTCTCCTCTAG  
AGAAGGGAGCCAAGGGGAGCTGACTCCAGCAAACAGCCAGTACGGATGAGCACCAACAT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001270939

**Insert Size:** 1464 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001270939.1](#), [NP\\_001257868.1](#)

**RefSeq Size:** 1863 bp

**RefSeq ORF:** 1464 bp

**Locus ID:** 117039

**UniProt ID:** [P97834](#)

**Cytogenetics:** 10q32.3

**Gene Summary:** human homolog suppresses G-protein and mitogen-activated protein kinase mediated signal transduction [RGD, Feb 2006]

Transcript Variant: This variant (2) has an alternate 5' exon, compared to variant 1. The resulting isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1.