

## Product datasheet for **RR213671**

### Gfpt2 (NM\_001002819) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gfpt2 (NM_001002819) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfpt2
Synonyms:	MGC112555
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213671 representing NM\_001002819  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCGGAATCTTTGCCTATATGAATTACAGAGTCCCAAGACGAGGAAGGAGATTTTTGAAACCCTCA  
 TCAGGGGCTGCAGCGGCTGGAGTACCGGGTTATGACTCGGCAGGTGTGGCCATTGACGGGAATAACCA  
 TGAAGTCAAAGAAAGACACATCCATCTTGTGAAGAAGAAGGAAAAAGTGAAGGCTCTGGATGAAGAAGT  
 TACAAGCAAGATAGCATGGACTTGAAGGTAGAGTTGAGACACACTTCGGCATAGCCACACACGTTGGG  
 CCACCCATGGGGTCCCAATGTGGTCAACAGTACCCACAGCGTTCAGACAAAGACAATGAATTTGTCGT  
 CATCCACAACGGAATCATCACTAATTACAAGGATCTAAGGAAATTTCTGGAAAGCAAGGGCTACGAGTT  
 GAGTCAGAAACAGACACGGAGACCATCGCCAAGCTGATTAATACGTATTCGACAACAGAGAGACTGAGG  
 ACATTACGTTTTCCACATTGGTCAAAGAGTCATTAGCAGTTGGAAGGGCCTTTGCCCTGGTCTTCAA  
 GAGCATCCACTACCCGGGAGAAGCTGTTGCCACAAGGAGAGGCAGCCCCCTGCTCATCGGGTACGAAGC  
 AAATACAAACTCTCCACAGAGCAGATCCCGTCTTATATCGGACATGCACTATTGAGAATGTGAAGAATA  
 TCTGTAAGACCAGGCTGAAGAGACTGGACAGCTCCACCTGCCTGCATGCAGTGGGGGATAAAGCCGTGGA  
 GTTCTTCTTGGTCTGTGATGCAAGTGCCATCATAGAACACACCAACCGGGTTCATCTTCTTGAAGATGAT  
 GATATTGCTGCAGTGGCTGATGGGAAACTCTCCATTCACCGAGTCAAACGCTCAGCTAGTGATGACCCCT  
 CCCGAGCCATCCAGACCTTGAGATGGAACACAGCAAATAATGAAAGGTAACCTCAGTGCAATTTATGCA  
 GAAGGAGATCTTCGAGCAGCCAGAATCTGTTTTAATACCATGAGAGGTGGGTAATTTTGAAGCAAC  
 ACAGTGCTCCTGGGTGGCTTGAAGGACATTTGAAGGAGATTGTCGATGCCGAAGGCTCATTGTGATAG  
 GCTGTGGAACAGCTACCATGCCGCTGTGGTACACGGCAAGTGTAGAGGAAGTACCGAGCTCCCTGT  
 GATGGTTGAACTTGCCAGTGACTTTCTGGACAGGAACACACCTGTGTTTCCAGGGATGATGTTTCTTTTC  
 ATAAGCCAGTCAGGAGAGACTGCAGACAGCTCCTGGCGCTGCGATACTGTAAGGATCGCGGTGCGCTGA  
 CCGTGGGCATCACCAACACCGTGGGCGAGCTCCATCTCCGAGAGACCGACTGTGGCGTCCACATCAACGC  
 AGGGCCCAGATTGGGGTGGCTAGCACCAAGGCCTACACCAGCCAGTTCATCTCTCTGGTATGTTTGGT  
 TTGATGATGTCTGAAGATCGAATTTCTCTACAGACCAGGAGACAAGAGATCATCCGTGGCCTCAGATCTT  
 TACCTGAGCTGATCAAAGAAGTATTATCCCTGGATGAGAAGATCCACGACTTGGCCCTGGAGCTCTACAC  
 ACAGAGGTCACCTAGTGATGGGACGAGGATATAACTATGCCACATGCCTGGAAGGTGCCTTGAAATTT  
 AAAGAGATAACCTACATGCATTCAGAAGGTATCCTGGCCGAGAGCTGAAGCACGGGCCCTTGCTCTCG  
 TCGACAAGCAGATGCCAGTCATCATGGTATCATGAAGGATCCTTGCTTTGCCAAGTGCCAGAATGCCCT  
 GCAGCAGGTCACCTGCCGCCAGGTCGCCCAATCATTCTGTGCTCCAAGGATGACACGGAGAGTTCCAAG  
 TTTGCATATAAAACCATGAACTTCCCCACACGGTGGACTGTCTCCAGGGTATCCTGAGCGTGATCCAC  
 TCCAGTCTGTCTCCACCTGGCTGTCTCCGAGGTTATGATGTTGACTTCCCGAGAAACCTAGCCAA  
 GTCTGTCACTGTGGAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213671 representing NM\_001002819  
Red=Cloning site Green=Tags(s)

MCGIFAYMNYRVPKTRKEIFETLIRGLQRLEYRGYDSAGVAIDGNNHEVKERHIHLVKKKGKVKALDEEL  
 YKQDSMDLKVEFETHFGIAHTRWATHGVPNVVNSHPQRSKDNFVVIHNGIITNYKDLRFLESKGYEF  
 ESETDTETIAKLIKVFVFNRETDITFSTLVERVIQQLLEGAFALVFKSIHYPGEAVATRRGSPLLIGVRS  
 KYKLSTEQIPVLVRTCTIENVKNICKTRLKRLDSSTCLHAVGDKAVEFFASDASAIIEHTNRVIFLEDD  
 DIAAVADGKLSIHRVKRSASDDPSRAIQTLQMEQQIMKGNFSAFMQKEIFEQPESVFNTMRGRVNFETN  
 TVLLGGLKDHLKEIRRCRRLIVIGCGTSYHAAVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCF  
 ISQSGETADTLLALRYCKDRGALTVGITNTVGSSISRETDCGVHINAGPEIGVASTKAYTSQFISLVMFG  
 LMMSEDRI SLQTRRQEIIRGLRSLPEL I KEVLSLDEKIHDLALELYTQRSLVMGRGNYATCLEGALKI  
 KEITYMHSEGILAGELKHGPLALVDKQMPVIMVIMKDPCKFAKQNALQQVTARQGRPIILCSKDDTESSK  
 FAYKTIELPHTVDCLQGILSVIPLQLLSFHLAVLRGYDVDFPRNLAKSVTVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001002819

**ORF Size:** 2046 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\\_001002819.2](#), [NP\\_001002819.2](#)

**RefSeq Size:** 3024 bp

**RefSeq ORF:** 2049 bp

**Locus ID:** 360518

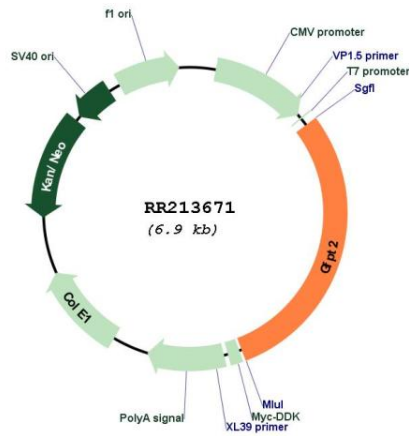
**UniProt ID:** [Q4KMC4](#)

**Cytogenetics:** 10q21

**MW:** 77 kDa

**Gene Summary:** may have aminotransferase activity [RGD, Feb 2006]

**Product images:**



Circular map for RR213671