

Product datasheet for **MC221466**

Gphn (NM_172952) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gphn (NM_172952) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gphn
Synonyms:	5730552E08Rik; AI662856; BC027112; C230040D23; geph; GPH; GPHRYN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC221466 representing NM_172952
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACCGAGGAATGATCCTCACCAACCACGACCATCAAATCCGTGTCGGAGTCTCACAGTGAGTG
 ATAGCTGCTTCAGGAATCTTGCAGAAGACCGCAGTGGGATAAATCTAAAAGATCTTGTCCAAGATCCTTC
 TTTGTTGGGTGGGACTATATCGGCATACAAGATAGTACCAGATGAAATAGAAGAAATCAAGGAAACACTC
 ATAGACTGGTGTGATGAAAAGGAACTTAATTTAATATTAACAACCTGGAGGAACGGGGTTTGCACCACGAG
 ATGTCACCTCCAGAGGCCACAAAAGAAGTAATAGAGCGGGAAGCGCCAGGGATGGCCCTGGCAATGCTGAT
 GGGATCGTCAATGTCACACCTCTGGGCATGCTCTCTAGACCAGTGTGTGAATAAGGGGAAAACCTCTG
 ATAATTAACCTACCTGGTAGCAAGAAAGGATCTCAGGAATGCTTTCAGTTCATACTGCCAGCTCTACCTC
 ATGCCATTGACCTTTTACGTGATGCCATTGTAAAAGTAAAGGAGGTGCATGATGAACTTGAAGATTTACC
 TTCCCCACCACCTCTCTCTCCACCTCTACAACCTAGCCACATAAACAGACAGAAGACAAAAGGAGTT
 CAGTGTGAAGAAGAGGAAGAAGAAAAGAACAGTGGTGTAGCTTCAACAGAAGATAGTTCCTCATCAC
 ATATAACTGCAGCAGCTCTTGTGCAAAGATTCAGACTCCATCATTTTCTCGTGGTGTTCAGGTGCTCCC
 ACGAGACACAGCCTCCCTTAGCACTACTCCTTCAGAATCGCCCGTGCTCAGGCTACATCTCGCCTCTCT
 ACAGCTTCTTGTCCAACCAAAAACAAATTAGACGGCCGGATGAAAGCAAAGGAGTTGCTAGTAGAGTTG
 GATCCCTCAAAGCTCGGCTTCCGTGCTCATCTACCTATAGTGTATCTGAGGTCCAGTCCAGGTGCAG
 CAGCAAGGAGAACATTCTAAGAGCCAGTACAGTGTGTAGATATCACCAGGTGGCTAGAAGACATCGC
 ATGTCTCCTTTTCCCCTGACGTCTATGGACAAAGCCTTACATTACAGTCTGGAGATGACTCCGGTGCTTG
 GTACAGAAATCATCAATTACCGAGATGGAATGGGGCGAGTCTTGTCTCAAGATGTATATGCAAAAAGACAA
 CCTACCCCATTCCTGTCATCAGTAAAAGATGGCTATGCTGTTCCGAGCTGCTGATGGTCCAGGGGATCGT
 TTCATCATTGGGGAATCCAAGCTGGTGTGAGCAGCAACTCAGACAGTAATGCCAGGACAAGTGTGCGGG
 TTACAACAGGTGCTCCAATCCCCTGCGGTGCTGATGCAGTAGTGAAGTTGAAGATACTGAACTCATCAG
 GGAATCAGATGATGGTACTGAAGAACTTGAAGTACGAATTCTGGTGAAGCTCGGCCAGGCCAAGATATC
 CGACCCATCGGCCATGACATTAAGAGAGGGGAGTGTGTTTTGGCCAAAGGAACCCATATGGGCCCTTCA
 GATTGGTCTCCTTGCAACTGTGGGTGTCACAGAAGTGAAGTTAATAAGTTTCCAGTGGTTGCCGTTAT
 GTCAACAGGGAATGAGCTGCTAAATCCTGAAGATGATCTTACCAGGAAAGATTCGGGACAGCAATCGA
 TCAACACTTCTAGCAACAATTCAGGAACATGGTTACCCAACAATCAACCTGGGAATTGTAGGAGACAACC
 CAGATGACTTACTCAATGCCTTGAATGAGGGTATCAGCCGTGCTGATGTCATCATCACGTGAGGAGGTGT
 GTCATGGGGGAAAAGGACTATCTCAAGCAGGTGCTGGACATTGATCTTTCATGCTCAGATCCATTTTGGC
 AGAGTTTTTATGAAGCCAGGCTTCCAACAACATTTGCAACTTTGGATATTGATGGTGAAGAAAAATTA
 TTTTGGCACTACCAGGGAATCCTGTATCAGCTGTGGTACCTGCAACCTCTTGTGTACCTGCACTGAG
 AAAGATGCAGGGTATCTTGGATCCTCGGCCAACCATCATCAAAGCCAGGTTATCGTGTGATGTAAAACCTG
 GACCTCGCCAGAATACCACCGGTGTACTGACTTGGCATCACCAGAACCCTGCCCCTGGGCCCAGA
 GTACAGGTAATCAGATGAGCAGCCGTCTGATGAGCATGCCAGTGCCAAATGGATTATTGATGCTACCTCC
 AAAGACAGAGCAGTACGTGGAACCTCACAAAGGCGAGGTGGTAGATGTCATGGTCATTGGACGGCTA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_172952
Insert Size: 2310 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).
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:	<ol style="list-style-type: none">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_172952.3 , NP_766540.2
RefSeq Size:	3307 bp
RefSeq ORF:	2310 bp
Locus ID:	268566
UniProt ID:	Q8BUV3
Cytogenetics:	12 C3
Gene Summary:	<p>Microtubule-associated protein involved in membrane protein-cytoskeleton interactions. It is thought to anchor the inhibitory glycine receptor (GLYR) to subsynaptic microtubules. Catalyzes two steps in the biosynthesis of the molybdenum cofactor. In the first step, molybdopterin is adenylated. Subsequently, molybdate is inserted into adenylated molybdopterin and AMP is released.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks one coding exon and contains two additional coding exons compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>