

Product datasheet for **MR222215**

Gphn (NM_172952) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gphn (NM_172952) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



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ORF Nucleotide
Sequence:

>MR222215 representing NM_172952
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGACCGAGGAATGATCCTCACCAACCACGACCATCAAATCCGTGTCGGAGTCTCACAGTGAGTG
ATAGCTGCTTCAGGAATCTTGCAGAAGACCGCAGTGGGATAAATCTAAAAGATCTTGTCCAAGATCCTTC
TTTGTGGGTGGGACTATATCGGCATACAAGATAGTACCAGATGAAATAGAAGAAATCAAGGAAACACTC
ATAGACTGGTGTGATGAAAAGGAACTTAATTTAATATTAACAACCTGGAGGAACGGGGTTGCACCACGAG
ATGTCCTCCAGAGGCCACAAAAGAAGTAATAGAGCGGGAAGCGCCAGGGATGGCCCTGGCAATGCTGAT
GGGATCGCTCAATGTCACACCTCTGGGCATGCTCTCTAGACCAGTGTGTGAATAAGGGGAAAACCTCTG
ATAATTAACCTACCTGGTAGCAAGAAAGGATCTCAGGAATGCTTTCAGTTCATACTGCCAGCTCTACCTC
ATGCCATTGACCTTTTACGTGATGCCATTGTAAAAGTAAAGGAGGTGCATGATGAACTTGAAGATTTACC
TTCCCCACCACCTCTCTCTCCACCTCTACAACCTAGCCACATAAACAGACAGAAGACAAAAGGAGTT
CAGTGTGAAGAAGAGGAAGAAGAAAAGAACAGTGGTGTAGCTTCAACAGAAGATAGTTCCTCATCAC
ATATAACTGCAGCAGCTCTTGTGCAAAGATTCAGACTCCATCATTTCTCGTGGTGTTCAGGTGCTCCC
ACGAGACACAGCCTCCCTTAGCACTACTCCTTCAGAATCGCCCGTGCTCAGGCTACATCTCGCCTCTCT
ACAGCTTCTTGTCCAACCAAAAACAAATTAGACGGCCGGATGAAAGCAAAGGAGTTGCTAGTAGAGTTG
GATCCCTCAAAGCTCGGCTTCCGTGCTCATCTACCTATAGTGTATCTGAGGTCCAGTCCAGGTGCAG
CAGCAAGGAGAACATTCTAAGAGCCAGTACAGTGTGTAGATATCACCAGGTGGCTAGAAGACATCGC
ATGTCTCCTTTTCCCCTGACGTCTATGGACAAAGCCTTACATTACAGTCTGGAGATGACTCCGGTGCCTG
GTACAGAAATCATCAATTACCGAGATGGAATGGGGCGAGTCTTGTCTCAAGATGTATATGCAAAAAGACAA
CCTACCCCATTCCTGCATCAGTAAAAGATGGCTATGCTGTTCCGAGCTGCTGATGGTCCAGGGGATCGT
TTCATCATTGGGGAATCCAAGCTGGTGTAGCAGCAACTCAGACAGTAATGCCAGGACAAGTGTGCGGG
TTACAACAGGTGCTCCAATCCCCTGCGGTGCTGATGCAGTAGTGAAGTTGAAGATACTGAACTCATCAG
GGAATCAGATGATGGTACTGAAGAACTTGAAGTACGAATTCTGGTGAAGCTCGGCCAGGCCAAGATATC
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AGATTGGTCTCCTTGCAACTGTGGGTGTCACAGAAGTGAAGTTAATAAGTTTCCAGTGGTTGCCGTTAT
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TCAACACTTCTAGCAACAATTCAGGAACATGGTTACCAACAATCAACCTGGGAATTGTAGGAGACAACC
CAGATGACTTACTCAATGCCTTGAATGAGGGTATCAGCCGTGCTGATGTCATCATCAGTCAAGGAGTGT
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AGAGTTTTTATGAAGCCAGGCTTCCAACAACATTTGCAACTTTGGATATTGATGGTGTAAAGAAAATTA
TTTTTGCCTACCAGGGAATCCTGTATCAGCTGTGGTACCTGCAACCTCTTTGTTGTACCTGCACTGAG
AAAGATGCAGGGTATCTGGATCCTCGGCCAACCATCATCAAAGCCAGGTATCGTGTGATGTAAAACCTG
GACCTCGCCAGAATACCACCGGTGTACTGACTTGGCATCACCAGAACCCTGCCCCTGGGCCAGCA
GTACAGGTAATCAGATGAGCAGCCGTCTGATGAGCATGCCAGTGCCAAATGGATTATTGATGCTACCTCC
AAAGACAGAGCAGTACGTGGAATTCACAAAGGCGAGGTGGTAGATGTCATGGTATTGGACGGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222215 representing NM_172952
 Red=Cloning site Green=Tags(s)

MATEGMILTNDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVPDEIEEIKETL
 IDWCDEKELNLILTTGGTGFAPRDVTPEATKEVIEREAPGMALMLMGS LNVTPLGMLSRPVCGIRGKTL
 IINLPGSKKGSQECFQFILPALPHAIDLRLDAIVKVKEVHDELEDLPSPPPPLSPPTTSPHKQTEDKGV
 QCEEEEEKDKSGVASTEDSSSSHITAALAAKIPDSIISRGVQLPRDTASLSTTPSESPRAQATSRLS
 TASCPTPKQIRRPDESKGVASRVGSLKARLPSCSSTYSVSEVQSRCSSKENILRASHAVDITKVARRHR
 MSPFPLTSMDFKITVLEMTPLVLTGTEIINYRDGMGRVLAQDVYAKDNLPPFPASVKDGYAVRAADGPGDR
 FIIGESQAGEQPTQTMVPGQVMRVTGAPICGADAVVQVEDTELIRESDDGTEELEVRILVQARPGQDI
 RPIGHDIKRGECVLAKGTHMGPSEIGLLATVGVTEVEVNKFPVAVMSTGNELLNPEDDLLPGKIRDSNR
 STLLATIQEHYPTINLGI VGDNPDDLNALNEGISRADVIITSGGVSMGEKDYLKQVLDIDLHAQIHFG
 RVFMKPGLPPTTFATLDIDGVRKIIIFALPGNPVSAVTCNLFVVPALRKMQGILDPRPTIIKARLSCDVKL
 DPRPEYHRCILTWHHQEPLPWAQSTGNQMSRRLMSMRSANGLLMLPPKTEQYVELHKGEVVDVMVIGRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172952

ORF Size: 2307 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_172952.3](#), [NP_766540.2](#)

RefSeq Size: 3307 bp

RefSeq ORF: 2310 bp

Locus ID: 268566

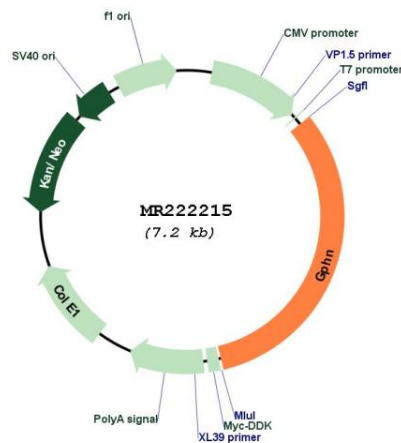
UniProt ID: [Q8BUV3](#)

Cytogenetics: 12 C3

MW: 83.7 kDa

Gene Summary: 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]

Product images:



Circular map for MR222215