

Product datasheet for **MR222216**

Gphn (NM_145965) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gphn (NM_145965) 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:

>MR222216 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACCGAGGAATGATCCTCACCAACCACGACCATCAAATCCGTGTCGGAGTCTCACAGTGAGTG
 ATAGCTGCTTCAGGAATCTTGCAGAAGACCGCAGTGGGATAAATCTAAAAGATCTTGTCCAAGATCCTTC
 TTTGTTGGGTGGGACTATATCGGCATACAAGATAGTACCAGATGAAATAGAAGAAATCAAGGAAACACTC
 ATAGACTGGTGTGATGAAAAGGAACCTAATTTAATATTAACAACCTGGAGGAACGGGGTTTGCACCACGAG
 ATGTCACCTCCAGAGGCCACAAAAGAAGTAATAGAGCGGGAAGCGCCAGGGATGGCCCTGGCAATGCTGAT
 GGGATCGCTCAATGTACACCTCTGGGCATGCTCTCTAGACCAGTGTGTGAATAAGGGGAAAACCTCTG
 ATAATTAACCTACCTGGTAGCAAGAAAGGATCTCAGGAATGCTTTCAGTTCATACTGCCAGCTCTACCTC
 ATGCCATTGACCTTTTACGTGATGCCATTGTAAAAGTAAAGGAGGTGCATGATGAACTTGAAGATTTACC
 TTCCCCACCACCTCTCTCTCCACCTCTACAACCTAGCCACATAAACAGACAGAAGACAAAAGGAGTT
 CAGTGTGAAGAAGAGGAAGAAGAAAAGAACAGCAGTGGTGTAGCTTCAACAGAAGATAGTTCCTCATCAC
 ATATAACTGCAGCAGCTCTTGTGCAAAGAAGCATCCATTCTACACCAGTCTGTCTTTTCATGGCAAA
 TCATGGGCAGCCCATCCCTGGTCTCATCAGTTATTTCCCATCATGCAACAGGCAGTGCAGATAAACGGATT
 CCAGACTCCATCATTTCTCGTGGTGTTCAGGTGCTCCCACGAGACACAGCCTCCCTTAGCACTACTCCTT
 CAGAATCGCCCCGTGCTCAGGCTACATCTCGCCTCTCTACAGTCTTGTCCAACACCAAAAAGTCCAGTC
 CAGGTGCAGCAGCAAGGAGAACATTCTAAGAGCCAGTACAGTGTGTAGATACCAAGGTGGCTAGA
 AGACATCGCATGTCTCCTTTTCCCCTGACGTCTATGGACAAAAGCCTTATTACAGTCTGGAGATGACTC
 CGGTGCTTGGTACAGAAATCATCAATTACCGAGATGGAATGGGGCGAGTCTTGTCAAGATGTATATGC
 AAAAGACAACCTACCCCCATTCCCTGCATCAGTAAAAGATGGCTATGCTGTTTCGAGCTGCTGATGGTCCA
 GGGGATCGTTTTCATCATTGGGGAATCCCAAGCTGGTGTGAGCAGCCAACTCAGACAGTAATGCCAGGACAAG
 TGATGCGGGTTACAACAGGTGCTCCAATCCCCTGCGGTGCTGATGCAGTAGTGAAGTTGAAGATACTGA
 ACTCATCAGGGAATCAGATGATGGTACTGAAGAACTTGAAGTACGAATTCTGGTGAAGCTCGGCCAGGC
 CAAGATATCCGACCCATCGGCCATGACATTAAGAGAGGGGAGTGTGTTTTGGCCAAAGGAACCCATATGG
 GCCCTTCAGAGATTGGTCTCCTTGAACCTGTGGGTGTACAGAAGTGAAGTTAATAAGTTTCCAGTGGT
 TGCCGTTATGTCAACAGGGAATGAGCTGCTAAATCCTGAAGATGATCTCTTACCAGGAAAGATTCGGGAC
 AGCAATCGATCAACACTTCTAGCAACAATTCAGGAACATGGTTACCAACAATCAACCTGGGAATTGTAG
 GAGACAACCCAGATGACTTACTCAATGCCTTGAATGAGGGTATCAGCCGTGCTGATGTCATCATCAGCTC
 AGGAGGTGTGCCATGGGGGAAAAGGACTATCTCAAGCAGGTGCTGGACATTGATCTTATGCTCAGATC
 CATTTTGGCAGAGTTTTTATGAAGCCAGGCTTGCCAACAACATTTGCAACTTTGGATATTGATGGTGAA
 GAAAAATTATTTTGCCTACCAGGGAATCCTGTATCAGCTGTGGTCACTGCAACCTCTTTGTTGTACC
 TGCACTGAGAAAGATGCAGGGTATCTTGGATCCTCGGCCAACCATCATCAAAGCCAGGTTATCGTGTGAT
 GTAAAACCTGGACCCTCGCCAGAATACCACCGGTGATACTGACTTGGCATCACCAAGAACCCTGCCCT
 GGGCCAGAGTACAGGTAATCAGATGAGCAGCCGTCTGATGAGCATGCGCAGTGCCAATGGATTATTGAT
 GCTACCTCAAAGACAGAGCAGTACGTGGAACCTCACAAAGGCGAGGTGGTAGATGTCATGGTCATTGGA
 CGGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222216 protein sequence

Red=Cloning site Green=Tags(s)

MATEGMILTNHDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVPDEIEEIKETL
IDWCDEKELNLILTTGGTGFAPRDVTPEATKEVIEREAPGMALMLMGS LNVTPLGMLSRPVCGIRGKTL
IINLPGSKKGSQECFQFILPALPHAIDLRLDAIVKVKVHDELEDLPSPPPPLSPPTTSPHKQTEDKGV
QCEEEEEKDSGVASTEDSSSHITAALA AAKKHPFYTSPALFMANHGQPIPLISYSHHATGSADKRI
PDSIISRGVQVLPRTASLSTTPSESPRAQATSRLSTASCPTPKVQSRCSSKENILRASHAVDITKVAR
RHRMSPFPLTSMDFITVLEMPVLGTEIINYRDGMGRVLAQDVYAKDNLPPFPASVKDGYAVRAADGP
GDRFIIIGESQAGEQPTQTYMPGQVMRVTTGAPIPCGADAVVQVEDTELIRESDDGTEELEVRIIVQARPG
QDIRPIGHDIKRGECVLAGKTHMGPSEIGLLATVGVTEVEVNKFPVVAVMSTGNELLNPEDDLLPGKIRD
SNRSTLLATI QEHGYPTINLGIVGDNPDLLNALNEGISRADVIITSGGVSMGEKDYLKQVLDIDLHAQI
HFGRVFMKPLPTTFATLDIDGVRKIIIFALPGNPVSAVVT CNLFVVPALRKMQGILDPRPTI IKARLSCD
VKLDPRPEYHRCILTWHHQEPLPWAQSTGNQMSSRLMSMR SANGLLMLPPKTEQYVELHKGEVVDVMVIG
RL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_145965.2](#), [NP_666077.2](#)

RefSeq Size: 3316 bp

RefSeq ORF: 2319 bp

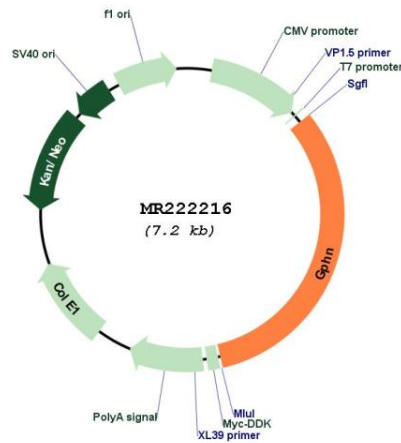
Locus ID: 268566

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 MR222216