

Product datasheet for **RR213663**

Gphn (NM_022865) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gphn (NM_022865) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gphn
Synonyms:	Geph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213663 representing NM_022865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACCGAGGAATGATCCTCACAAACCACGACCATCAAATCCGTGTGCGGAGTCTCACAGTGAGTG
 ATAGCTGCTTCAGGAATCTTGCAGAAGACCGCAGTGGGATAAATCTAAAAGATCTCGTCCAGGATCCTTC
 TTTGTTGGGTGGGACTATATCAGCATACAAGATAGTACCAGATGAAATAGAAGAAATCAAGGAAACACTC
 ATAGACTGGTGTGATGAGAAGGAACTTAATTTGATATTAACAACCTGGCGGAACAGGGTTTGCACCACGAG
 ATGTCACTCCAGAGGCCACAAAAGAAGTAATAGAACGGGAAGCGCCAGGGATGGCCCTGGCAATGCTGAT
 GGGATCACTTAATGTTACACCTCTGGGCATGCTCTCTAGACCAGTGTGTGAATAAGAGGGAAAACCTCTG
 ATAATTAACCTGCCTGGTAGCAAGAAAGGATCTCAGGAATGCTTTCAGTTCATACTGCCAGCTCTACCTC
 ATGCCATTGACCTTTTACGTGATGCCATTGTAAAAGTAAAGGAGGTGCATGATGAACTTGAAGATTTACC
 TTCCCCACCACCTCCTCTTTCTCCACCTCTACAACCTAGCCACATAAGCAGACAGAAGACAAAAGGAGTT
 CAGTGTGAAGAGGAGGAAGAAGAAAAGAACAGTGGTGTAGCTTCGACAGAAGATAGTTCCTCATCAC
 ATATTACTGCAGCAGCTCTTGTCTGCAAAGATTCAGACTCCATCATTTTCTCGTGGCGTTCAGGTGCTCCC
 ACGAGACACAGCCTCCCTTAGCACTACTCCTTCAGAGTCGCCCGTGGCCAGGCTACATCTCGCCTCTCT
 ACAGCTTCTTGTCCAACCAAAAAGTCCAGTCCAGGTGCAGCAGCAAGGAGAACATTCTAAGAGCCAGTC
 ACAGTGTGTAGATATCACCAAGGTGGCTAGAAGACATCGCATGTCTCCTTTTCTCTGAGCTCTATGGA
 CAAAGCCTTATTACAGTCTGGAGATGACTCCGGTGTGGTACAGAAATCATCAATTACCGAGATGGA
 ATGGGGCGAGTCTTGTCAAGATGTGTATGCAAAGACAACCTACCCCATCCAGATCAGTAAAAG
 ACAGCCAACTCAGACAGTAATGCCCGGACAAGTATGCGGGTTACAACAGGTGCTCAATCCCCTGCGGT
 GCTGATGCAGTAGTGCAAGTTGAAGATACTGAACTCATCAGGGAATCAGATGATGGTACTGAAGAACTTG
 AAGTGCGAATTCTGGTGAAGCTCGGCCAGGCCAAGACATCAGACCCATCGGCCACGACATTAAGAGAGG
 GGAGTGTGTTTTGGCAAAGGAACCCATATGGGCCCTTCAGAAATGGTCTCCTTGAACCTGTAGGTGTC
 ACAGAAGTTGAAGTTAATAAGTTTCCAGTGGTTGCCGTTATGTCAACAGGGAATGAGCTACTAAATCCTG
 AAGATGACCTCTTACCAGGAAAGATTCGGGACAGCAATCGATCAACACTTCTAGCAACAATTCAGGAACA
 TGGTTACCCAACAATCAACTTGGGAATTGTAGGAGACAACCCAGATGACTTACTCAATGCCTTGAATGAG
 GGTATCAGCCGTGCTGATGTCATCATCAGTCCAGGAGGTATCCATGGGGGAAAAGGACTATCTCAAGC
 AGGTGCTGGACATCGATCTTATGCTCAGATCCATTTTGGCAGGGTTTTTATGAAGCCAGGCTTGCCAAC
 AACATTTGCAACTTTGGATATTGATGGTGAAGAAAAATTATTTTGCACCTACCAGGGAATCCTGTATCA
 GCTGTGGTCACCTGCAACCTCTTTGTTGTACCCGCACTGAGAAAAATGCAGGGTATCTTGGATCCTCGGC
 CAACCATCATCAAAGCTAGGTTATCATGTGACGTAAGCTGGACCCTCGCCAGAAATACCACCGGTGAT
 ACTGACTTGGCATCACCAAGAACCCTGCCCTGGGCCAGAGTACAGGTAATCAGATGAGCAGCCGTCTG
 ATGAGCATGCGCAGTGCCAATGGATTGCTGATGCTACCTCAAAGACAGAGCAGTATGTGGAACCTCACA
 AAGGCGAGGTGGTGGACGTCATGGTTCATCGGACGGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213663 representing NM_022865
Red=Cloning site Green=Tags(s)

MATEGMILTNDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVPDEIEEIKETL
 IDWCDEKELNLILTTGGTGFAPRDVTPEATKEVIEREAPGMALMLMGLNVTPLGMLSRPVCGIRGKTL
 IINLPGSKKGSQECFQFILPALPHAIDLRLDAIVKVEVHDELEDLPSPPPPLSPPTTSPHKQTEDKGV
 QCEEEEEKDKSGVASTEDSSSSHITAALAAKIPDSIISRGVQLPRDTASLSTTPSESPRAQATSRLS
 TASCPTPKVQSRCSSKENILRASHSAVDITKVARRHRMSPFPLTSMDFKITVLEMPVLGTEIINYRDG
 MGRVLAQDVYAKDNLPPFPASVKDGYAVRAADGPGDRFIIGESQAGEQPTQTVMPGQVMRVTTGAPIPCG
 ADAVVQVEDTELIRESDDGTEELEVRILVQARPGQDIRPIGHDIKRGECVLAKGTHMGPSEIGLLATVGV
 TEVEVNKFPVVAVMSTGNELLPEDDLLPGKIRDSNRSTLLATIQEHEGYPTINLGI VGDNPDDLNALNE
 GISRADVIITSGGVSMGEKDYLKQVLDIDLHAQIHFRVFMKPLPTTFATLDIDGVRKIIFALPGNPVS
 AVVTCNLFVVPALRKMQGILDPRPTTIKARLSCDVKLDPRPEYHRCILTWHHQEPLPWAQSTGNQMSRRL
 MSMRSANGLMLLPPKTEQYVELHKGEVVDVMVIGRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022865

ORF Size: 2208 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_022865.3](#), [NP_074056.2](#)

RefSeq Size: 3220 bp

RefSeq ORF: 2211 bp

Locus ID: 64845

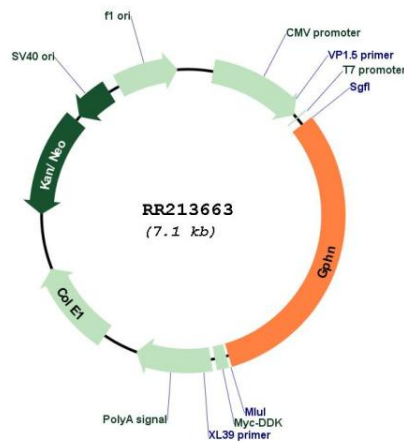
UniProt ID: [Q03555](#)

Cytogenetics: 6q24

MW: 79.7 kDa

Gene Summary: plays a role in molybdenum cofactor biosynthesis; may play a role in membrane protein-cytoskeleton interactions [RGD, Feb 2006]

Product images:



Circular map for RR213663