

Product datasheet for **RR207143**

Gpc1 (NM_030828) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Gpc1 (NM_030828) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Gpc1 |
| Synonyms: | HSPG M12; HSPGM12 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR207143 representing NM_030828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTCCGGGCCGAGGCTGGTGGCTGCTGTGCGCGGCCCGCGCTAGTCGCCTGCACCCGCGGGG
 ACCCCGCCAGCAAGAGCCGGAGCTGCAGCGAAGTCCGCCAGATCTACGGGGCTAAGGGCTTTAGCCTGAG
 CGACGTGCCCCAGGCAGAGATCTCGGGAGAGCACCTGCGGATCTGCCCCAGGGTACACCTGCTGCACC
 AGTGAGATGGAGGAGAACCCTGGCCAACACAGCCGGATGGAGCTGGAGACCGCACTCCACGACAGCAGCC
 GTGCCCTGCAGGCTACACTGGCCACCCAGCTGCATGGTATCGATGACCACTTCCAGCGCCTGCTGAATGA
 CTCGGAGCGTACACTGCAGGATGCTTTTCCGGGGCCTTTGGGGACCTGTACACGCAGAACACTCGGGCC
 TTCGGGACCTGTATGCTGAGCTGCGTCTCTACTACCGAGGGGCCAACCTACACCTTGAGGAGACTGG
 CCGAGTCTGGGCACGGCTGCTGGAGCGTCTCTCAAGCAGCTGCACCCAGCTGCTGCTGCCGATGA
 CTATCTGGACTGCCTGGCAAGCAGGCGGAGGCACTGCGGCCGTTTGGGGATGCCCTCGAGAAGTCCGC
 CTGAGGGCCACCCGTGCTTTTGTGGCGGACGATCCTTTGTGCAGGGCCTGGGTGTGGCCAGTGACGTAG
 TCCGAAAGGTGGCCAGTTCTCTGGCCCCAGAATGTTCTCGGGCTGTCATGAAGTTGGTCTACTGTGC
 CCATTGCCGGGGAGTCCCTGGTGCCCGGCCCTGTCCCAGCTATTGCCGAAATGTGCTCAAAGGCTGCCTT
 GCCAACAGGCCGACCTGGATGCCGAGTGGAGAACCTCCTGGACTCCATGGTGTCTACTACTGACAAGT
 TCTGGGGCCCGTGGGTGCGGAGTATGTCATTGGCAGTGTGCATATGTGGCTGGCGGAGGCCATCAACGC
 CCTCCAGGACAACAAGGACACACTCACAGCTAAGGTATCCAGGGCTGCGGAAACCCCAAGTCAATCCC
 CATGGCTCTGGCCTGAGGAGAAGCGTCCCGTCCAACTGGCACTGCAGGAGAAGTCTCCACAGGTA
 CTCTGGAAAAGCTGGTCTCTGAGGCCAAGGCCAGCTCCGAGACATTGAGACTACTGGATGACGCTCCC
 AGGGACTGTGTAGTGAGAAGATGGCCATGAGTCTGCCAGCGATGACCGCTGCTGGAATGGGATTTCC
 AAGGGCCGGTACCTACCTGAGGTGATGGGTGATGGGCTGGCCAACAGATCAACAACCTGAAGTGGAGG
 TGGACATACCAAGCCGGATATGACCATCCGGCAGCAGATCATGCAGCTCAAGATCATGACCAACCGTTT
 ACGTGGCGCCTACGGTGGAAATGATGTGGACTTCCAGGATGCCAGTGTGACGGTGTGGTTCGGGCAGC
 GGTGGCGGATGCCAGATGACGCCTGTGGTCCGAGGGTCCAGCAAGAAGAGCTCCAGCTCCCGGACCCCT
 TGATCCATGCCCTCCCGGCTTGTGAGAACAGGAGGGACAGAAGACCTCGGCCCACTCGCCAGAGCC
 TCACTACTCTTTCTGCTCTTCTGTTACCTTGGTCTTGTGTCAGCCAGGCCAGGTGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207143 representing NM_030828
 Red=Cloning site Green=Tags(s)

MELRARGWLLCAAALVACTRGPASKSRSCSEVRQIYGAKGFSLSVDPQAEISGEHLRIPCQGYTCTCT
 SEMEENLANHSRMELETALHDSSRALQATLATQLHGIDDFQRLNDSERTLQDAFPGAFGDLTYQNTA
 FRDLYAE LRLYYRGANLHLEETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFDPAPREL
 LRATRAVVAARSFVQGLGVASDVVRKVAQVPLAPECSRVMKLVYCAHCRGVPGARPCPDYCRNLVKGL
 ANQADLDAEWRNLLDSMVLITDKFWGPSGAEYVIGSVHMWLAEAINALQDNKDTLTAKVIQGCNPKVNP
 HSGPPEEKRRRAKLALQESSTGTLEKLVSEAKAQLRDIQDYWISLPGTLCSEKMAMSPASDDRCWNGIS
 KGRYLPEVMGDGLANQINNPEVEVDITKPDMTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGS
 GGGCPDDACGRRVSKKSSSRTPLIHLPGLSEQEQKTSAAATRPEPHYFFLLFLFTLVLAARPRWR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

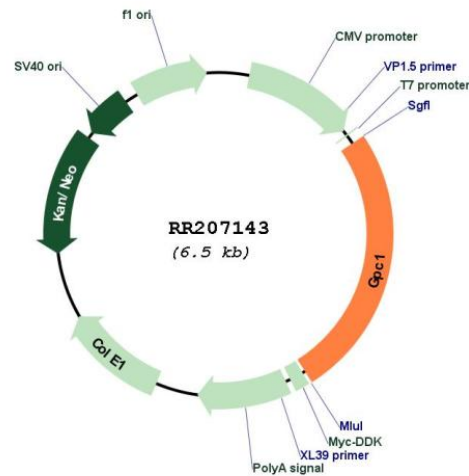
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_030828

| | |
|-------------------------------|--|
| ORF Size: | 1674 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <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_030828.1 , NP_110455.1 |
| RefSeq Size: | 3509 bp |
| RefSeq ORF: | 1677 bp |
| Locus ID: | 58920 |
| UniProt ID: | P35053 |
| Cytogenetics: | 9q36 |
| MW: | 61.7 kDa |
| Gene Summary: | glycosylphosphatidylinositol-linked heparan sulfate proteoglycan that may play a role in cell adhesion and growth factor response in the nervous system [RGD, Feb 2006] |