

Product datasheet for **RG207909**

Glypican 5 (GPC5) (NM_004466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 5 (GPC5) (NM_004466) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glypican 5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207909 representing NM_004466
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGCACAGACCTGGCCCGTGGGCTTTCGCTGCCTCCTCTGGCCCTGGTTGGGTCCGCCCGCA
 GCGAGGGCGTGCAGACCTGCGAAGAAGTTCGGAACCTTTCCAGTGGCGGCTGCTGGGAGCTGTCAGGGG
 GCTGCCGATTCCGCCGGGCAGGACCTGATCTTCAGGTTTGCATATCCAAAAAGCCTACATGTTGCACC
 AGGAAGATGGAGGAGAGATATCAGATTGCGGCTCGCCAGGATATGCAGCAGTTTCTTCAAACGTCCAGCT
 CTACATTAAGTCTTAATATCTCGAAATGCGGCTGCTTTTCAAGAAACCCTTGAAACTCTCATCAAACA
 AGCAGAAAATTACACCAGTATACTTTTTGTCAGTACCTACAGGAACATGGCCTTGGAGGCTGCTGCTTCG
 GTTCAGGAGTTCTTCACTGATGTGGGGTGTATTTATTTGGTGGGATGTTAATCCTGAAGAATTTGTAA
 ACAGATTTTTGACAGTCTTTTTCTCTGGTCTACAACCCTCATTAAACCTGGTGTACTGACAGTTC
 CCTGGAATACTCAGAATGCATCCGGATGGCTCGCCGGGATGTGAGTCCATTTGGTAAATTTCCCAAAGA
 GTAATGGGACAGATGGGGAGTCCCTGCTGCCAGCCGCACTTTTCTGCAGGCACCTCAATCTGGGCATTG
 AAGTCATCAACACCACAGACTATCTGCATTCTCAAAGAGTGCAGCAGAGCCCTCCTGAAGATGCAATA
 CTGCCCGCACTGCCAAGGCTGGCGCTCACTAAGCCTTGTATGGGATACTGCCTCAATGTCATGCGAGGC
 TGCTGGCGCACATGGCGGAGCTTAATCCACACTGGCATGCATATATCCGGTCTGTGAAGAAGTCTCGG
 ATGCAATGCATGGAACATACGACATTGGACACGTGCTGCTGAACCTTCACTTGTGTTAATGATGCTGT
 GTTACAGGCTCACCTCAATGGACAAAAATTATTGGAACAGGTAATAGGATTTGTGGCCGCCCTGTAAAG
 ACACCCACAAAAAGCCCCGTTGTTCTTTTGTATCAGAGCAAAGAGAAGCATGGAATGAAGACCACCACAA
 GGAACAGTGAAGAGACGCTTGGCAACAGAAGAAAAGAAATTTATCAACAGCCTTCGACTGTACAGGTATT
 CTATGGAGGTCTAGCTGATCAGCTTTGTGCTAATGAATTAAGTCTGCAGATGGACTTCCCTGCTGGAAT
 GGAGAAGATATAGTAAAAAGTTATACTAGCGTGTGGTTGGAATGGAATCAAAGCCAGTCTGGAATC
 CTGAAGTCAAAGTCAAAGGAATTGATCCTGTGATAAATCAGATTATTGATAAACTGAAGCATGTTGTTCA
 GTTGTACAGGGTAGATCACCAAACTGACAAGTGGAACTTCTCAGCTGGGAGTGGTGGAGGCATG
 GTTGAACAAGTCACTGGGACTGTGATGATGAAGATGTTGCGGGGATCAGGAAGTGGAGAAGTCAAGA
 GGACACTGAAGATCACAGACTGGATGCCAGATGATGAACCTCAGTGTAAAGCAAATCCATCAAAC
 AGACACTGGCAGTACTTTAGACACAACAGGAGCAGGATGTGAGTGGCGACTGAATCTATGACATCACT
 CTGATAAGTGTGGTGTACTTCCCGGATTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207909 representing NM_004466
 Red=Cloning site Green=Tags(s)

MDAQTWPVGFRCLLLLLALVGSARSEGVQTCEEVRKLFQWRLLGAVRGLPDSPRAGPDLQVCISKKPTCCT
 RKMEERYQIAARQDMQQFLQTSSTLKFILSRNAAAFQETLETLIKQAENYTSILFCSTYRNMALAAAAS
 VQEFFTDVGLYLFADVNPEEFVNRFFDSLPLVYNHLINPGVTDSSLEYSECIRMARRDVPFNGNIPQR
 VMGQMGRSLLPSRFLQALNLGIEVINTDYLHFSKECSRALLKMQYCPHCQGLALTKPCMGYCLNVMRG
 CLAHMAELNPHWHAYIRSLEELSDAMHGTYDIGHVLLNFHLLVNDVAVLQAHNLNGQKLLQVNRICRGPVR
 TPTQSPRCSFDQSKEKHGMKTTTRNSEETLANRRKEFINSLRLYRSFYGGADQLCANELAADGLPCWN
 GEDIVKSYTQRVVGNGIKAQSGNPEVKVKGIDPVINQIIDKLVHVVQLLQGRSPKPKDWELLQLGSGGGM
 VEQVSGDCDEDEGCGSGSGEVKRTLKIIDWMPDDMNFSDVKQIHQTDGTGSLDITGAGCAVATESMTFT
 LISVVMLLPGIW

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004466

ORF Size: 1716 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_004466.6](#)

RefSeq Size: 2934 bp

RefSeq ORF: 1719 bp

Locus ID: 2262

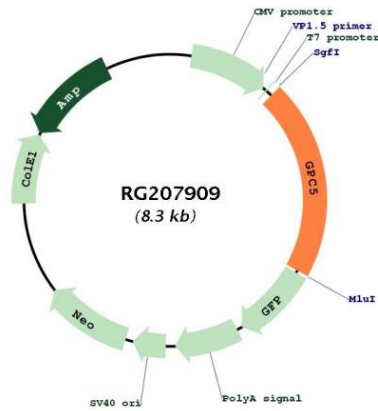
UniProt ID: [P78333](#)

Cytogenetics: 13q31.3

Domains: Glypican

Gene Summary: Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207909