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Product datasheet for RC207909

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:	Myc-DDK
Symbol:	Glypican 5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207909 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCACAGACCTGGCCCGTGGGCTTTCGCTGCCTCCTCCTTCTGGCCCTGGTTGGGTCCGCCCGCA
GCGAGGGCGTGCAGACCTGCGAAGAAGTTCGGAAACTTTTCCAGTGGCGGCTGCTGGGAGCTGTCAGGGG
GCTGCCGGATTCGCCGCGGGCAGGACCTGATCTTCAGGTTTGCATATCCAAAAAGCCTACATGTTGCACC
AGGAAGATGGAGGAGAGATATCAGATTGCGGCTCGCCAGGATATGCAGCAGTTTCTTCAAACGTCCAGCT
CTACATTAAAGTTTCTAATATCTCGAAATGCGGCTGCTTTTCAAGAAACCCTTGAAACTCTCATCAAACA
AGCAGAAAATTACACCAGTATACTTTTTTGCAGTACCTACAGGAACATGGCCTTGGAGGCTGCTGCTTCG
GTTCAGGAGTTCTTCACTGATGTGGGGCTGTATTTATTTGGTGCGGATGTTAATCCTGAAGAATTTGTAA
ACAGATTTTTTGACAGTCTTTTTCCTCTGGTCTACAACCACCTCATTAACCCTGGTGTGACTGACAGTTC
CCTGGAATACTCAGAATGCATCCGGATGGCTCGCCGGGATGTGAGTCCATTTGGTAATATTCCCCAAAGA
GTAATGGGACAGATGGGGAGGTCCCTGCTGCCCAGCCGCACTTTTCTGCAGGCACTCAATCTGGGCATTG
AAGTCATCAACACCACAGACTATCTGCACTTCTCCAAAGAGTGCAGCAGAGCCCTCCTGAAGATGCAATA
CTGCCCGCACTGCCAAGGCCTGGCGCTCACTAAGCCTTGTATGGGATACTGCCTCAATGTCATGCGAGGC
TGCCTGGCGCACATGGCGGAGCTTAATCCACACTGGCATGCATATATCCGGTCGTTGGAAGAACTCTCGG
ATGCAATGCATGGAACATACGACATTGGACACGTGCTGCTGAACTTTCACTTGCTTGTTAATGATGCTGT
GTTACAGGCTCACCTCAATGGACAAAAATTATTGGAACAGGTAAATAGGATTTGTGGCCGCCCTGTAAGA
ACACCCACACAAAGCCCCCGTTGTTCTTTTGATCAGAGCAAAGAGAAGCATGGAATGAAGACCACCACAA
GGAACAGTGAAGAGACGCTTGCCAACAGAAGAAAAGAATTTATCAACAGCCTTCGACTGTACAGGTCATT
CTATGGAGGTCTAGCTGATCAGCTTTGTGCTAATGAATTAGCTGCTGCAGATGGACTTCCCTGCTGGAAT
GGAGAAGATATAGTAAAAAGTTATACTCAGCGTGTGGTTGGAAATGGAATCAAAGCCCAGTCTGGAAATC
CTGAAGTCAAAGTCAAAGGAATTGATCCTGTGATAAATCAGATTATTGATAAACTGAAGCATGTTGTTCA
GTTGTTACAGGGTAGATCACCCAAACCTGACAAGTGGGAACTTCTTCAGCTGGGCAGTGGTGGAGGCATG
GTTGAACAAGTCAGTGGGGACTGTGATGATGAAGATGGTTGCGGGGGATCAGGAAGTGGAGAAGTCAAGA
GGACACTGAAGATCACAGACTGGATGCCAGATGATATGAACTTCAGTGATGTAAAGCAAATCCATCAAAC
AGACACTGGCAGTACTTTAGACACAACAGGAGCAGGATGTGCAGTGGCGACTGAATCTATGACATTCACT
CTGATAAGTGTGGTGATGTTACTTCCCGGGATTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207909 protein sequence
Red=Cloning site Green=Tags(s)

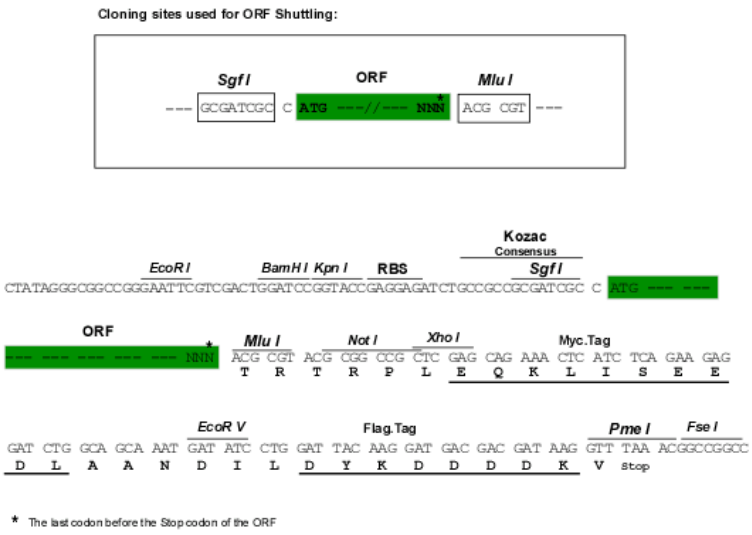
MDAQTWPVGFRCLLLLALVGSARSEGVQTCEEVRKLFQWRLLGAVRGLPDSPRAGPDLQVCISKKPTCCT
RKMEERYQIAARQDMQQFLQTSSSTLKFLISRNAAAFQETLETLIKQAENYTSILFCSTYRNMALEAAAS
VQEFFTDVGLYLFGADVNPEEFVNRFFDSLFPLVYNHLINPGVTDSSLEYSECIRMARRDVSPFGNIPQR
VMGQMGRSLLPSRTFLQALNLGIEVINTTDYLHFSKECSRALLKMQYCPHCQGLALTKPCMGYCLNVMRG
CLAHMAELNPHWHAYIRSLEELSDAMHGTYDIGHVLLNFHLLVNDAVLQAHLNGQKLLEQVNRICGRPVR
TPTQSPRCSFDQSKEKHGMKTTTRNSEETLANRRKEFINSLRLYRSFYGGLADQLCANELAAADGLPCWN
GEDIVKSYTQRVVGNGIKAQSGNPEVKVKGIDPVINQIIDKLKHVVQLLQGRSPKPDKWELLQLGSGGGM
VEQVSGDCDDEDGCGGSGSGEVKRTLKITDWMPDDMNFSDVKQIHQTDTGSTLDTTGAGCAVATESMTFT
LISVVMLLPGIW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6022_b03.zip

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004466.6

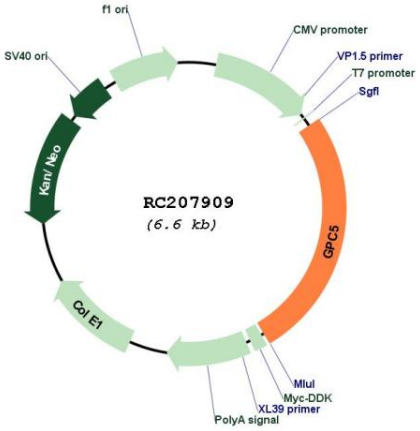
RefSeq Size: 2966 bp

RefSeq ORF: 1719 bp

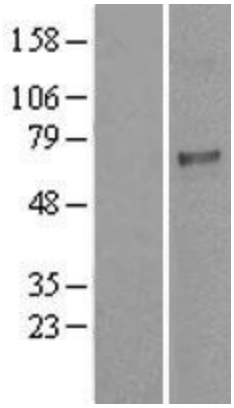
Locus ID: 2262

UniProt ID:	P78333
Cytogenetics:	13q31.3
Domains:	Glypican
MW:	63.7 kDa
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]

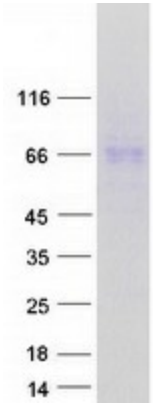
Product images:



Circular map for RC207909



Western blot validation of overexpression lysate (Cat# [LY401421]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207909 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPC5 protein (Cat# [TP307909]). The protein was produced from HEK293T cells transfected with GPC5 cDNA clone (Cat# RC207909) using MegaTran 2.0 (Cat# [TT210002]).