

Product datasheet for **RG202022**

Glypican 4 (GPC4) (NM_001448) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 4 (GPC4) (NM_001448) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glypican 4
Synonyms:	K-glypican; KPTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202022 representing NM_001448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGGTTTCGGCTTCCCGCGCTTCTCTGCACCCCTGGCAGTGCTCAGCGCCGCGCTGCTGGCTGCCG
 AGCTCAAGTCGAAAAGTTGCTCGGAAGTGCAGCTCTTTACGTGTCCAAAGGCTTCAACAAGAACGATGC
 CCCCCTCCACGAGATCAACGGTGATCATTGAAGATCTGTCCCCAGGGTTCTACCTGCTGCTCTCAAGAG
 ATGGAGGAGAAGTACAGCCTGCAAAGTAAAGATGATTTCAAAGTGTGGTCAGCGAACAGTGCAATCATT
 TGCAAGCTGTCTTTGCTTACGTTACAAGAAGTTGATGAATTCTTCAAAGAACTACTTGAAAATGCAGA
 GAAATCCCTGAATGATATGTTTGTGAAGACATATGGCCATTTATACATGCAAAAATCTGAGCTATTTAAA
 GATCTCTTCGTAGAGTTGAAACGTTACTACGTGGTGGAAATGTGAACCTGGAAGAAATGCTAAATGACT
 TCTGGGCTCGCCTCCTGGAGCGGATGTTCCGCCTGGTGAACCTCCAGTACCCTTACAGATGAGTATCT
 GGATGTGTGAGCAAGTATACGGAGCAGCTGAAGCCCTTCGGAGATGTCCCTCGCAAATGAAGCTCCAG
 GTTACTCGTGCTTTTGTAGCAGCCCGTACTTTCGCTCAAGGCTTACGCGTTGCGGGAGATGTCGTGAGCA
 AGGTCTCCGTGGTAAACCCACAGCCAGTGTACCCATGCCCTGTTGAAGATGATCTACTGCTCCCACTG
 CCGGGTCTCGTACTGTGAAGCCATGTTACAACACTACTGCTCAAACATCATGAGAGGCTGTTTGGCCAAC
 CAAGGGGATCTCGATTTTGAATGGAACAATTTATAGATGCTATGCTGATGGTGGCAGAGAGGCTAGAGG
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 GGATAATAGTGTCAAGTGTCTCAGAAGGTTTTCCAGGGATGTGGACCCCAAGCCCTCCAGCTGGA
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 CAACCACAGCAGCTGGCACTAGTTTGGACCGACTGGTTACTGATGTCAAGGAGAAACTGAAACAGGCCAA
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 GATGACTGTTGGAATGGGAAAGGCAAAGCAGGTACCTGTTTGCAGTGACAGGAAATGGATTAGCCAACC
 AGGGCAACAACCCAGAGGTCCAGGTTGACACCAGCAAACCCAGACATACTGATCCTTCGTCAAATCATGGC
 TCTTCGAGTGTGACCAGCAAGTGAAGAATGCATACAATGGGAACGACGTGGACTTCTTTGATATCAGT
 GATGAAAGTAGTGGAGAAGGAAGTGAAGTGGCTGTGAGTATCAGCAGTGCCTTCAGAGTTTGACTACA
 ATGCCACTGACCATGCTGGGAAGAGTGCCAATGAGAAAGCCGACAGTGTGGTGTCCGCTCCTGGGCACA
 GGCTACCTCCTACTGTCTTCTGCATCTTGTCTGTTATGCAGAGAGAGTGGAGA

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202022 representing NM_001448
 Red=Cloning site Green=Tags(s)

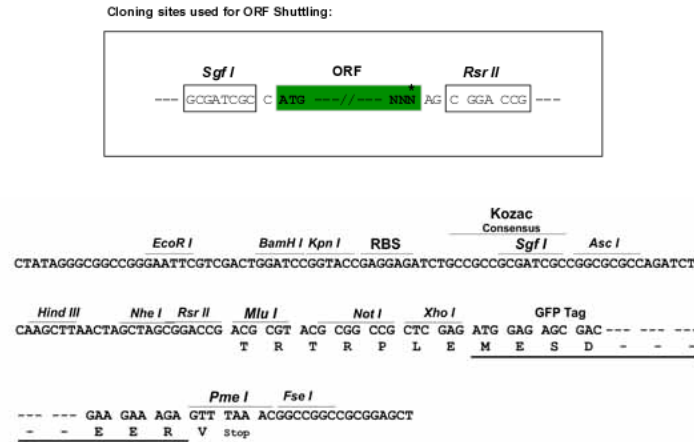
MARFGLPALLCTLAVLSAALLAELKSKSCSEVRRLLYVSKGFNKNDAPLHEINGDHLKICPQGSTCCSQE
 MEEKYSLQSKDDFKSVVSEQC�NHLQAVFASRYKFFDEFFKELLENAEKSLNDFVKTYGHLYMQNSSELFK
 DLFVELKRYVYVGNVLEEMLNDFWARLLERMFRLLVNSQYHFTDEYLECVSKYTEQLKPFQVDPKRLKLQ
 VTRAFVAARTFAQGLAVAGDVVSKVSVVNPTAQCTHALLKMIYCSHRGLVTVKPCYNYCSNIMRGCLAN
 QGDLDFFEWNNFIDAMLMAERLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQCGCPPKPLPAG
 RISRSISESAFARSFRPHHPEERPTTAAGTSLDRLVTDVKEKLLQAKKFWSSLPSNVCNDERMAAGNGNE
 DDCWNGKGSRYLFAVTGNLANQGNNPEVQVDTSKPDILILRQIMALRVMTSKMKNAYNQNDVDFDIS
 DESSGEGSGSGCEYQCPSEFDYNATDHAGKSANEKADSAGVVRPGAQAYLLTVFCILFLVMQREWR

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001448

ORF Size: 1668 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_001448.3](#)

RefSeq Size: 3714 bp

RefSeq ORF: 1671 bp

Locus ID: 2239

UniProt ID: [O75487](#)

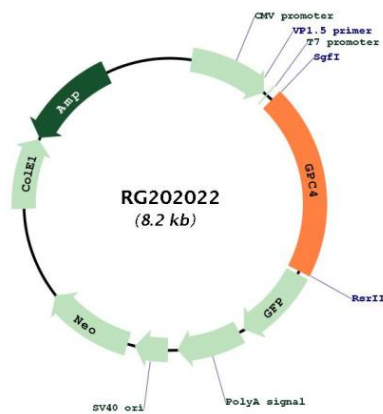
Cytogenetics: Xq26.2

Domains: Glypican

Protein Families: Druggable Genome

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. The GPC4 gene is adjacent to the 3' end of GPC3 and may also play a role in Simpson-Golabi-Behmel syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202022