

Product datasheet for **RG218389**

Glypican 6 (GPC6) (NM_005708) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Glypican 6
Synonyms:	OMIMD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218389 representing NM_005708
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTTCTTGGATCGGGGCTGTGATTCTTCCCTCTTGGGGCTGCTGCTCTCCCTCCCCGCCGGGGCGG
 ATGTGAAGGCTCGGAGCTGCGGAGAGGTCCGCCAGGCGTACGGTGCCAAGGGATTACAGCCTGGCGGACAT
 CCCCTACCAGGAGATCGCAGGGGAACACTTAAGAATCTGTCTCAGGAATATACATGCTGCCACACAGAA
 ATGGAAGACAAGTTAAGCCAACAAAGCAAACTCGAATTTGAAAACCTTGTGGAAGAGACAAGCCATTTTG
 TGGCACCACCTTTTGTGTCCAGGCATAAGAAATTTGACGAATTTTCCGAGAGCTCCTGGAGAATGCAGA
 AAAGTCACTAAATGATATGTTTGTACGGACCTATGGCATGCTGTACATGCAGAATTCAGAAGTCTTCCAG
 GACCTCTTACAGAGCTGAAAAGGTACTACACTGGGGTAATGTGAATCTGGAGGAAATGCTCAATGACT
 TTTGGGCTCGGCTCCTGGAACGGATGTTTCAAGTGTATAAACCTCAGTATCACTTCAGTGAAGACTACCT
 GGAATGTGTGAGCAAACTACACTGACCAGCTCAAGCCATTTGGAGAGCTGCCCGGAACTGAAGATTGAG
 GTTACCCGCGCTTCATTGCTGCCAGGACCTTTGTCCAGGGGCTGACTGTGGGCAGAGAAAGTTGCAAACC
 GAGTTTCCAAGGTACGCCAACCCAGGGTGTATCCGTGCCCTCATGAAGATGCTGTACTGCCCATACTG
 TCGGGGGCTTCCCACTGTGAGGCCCTGCAACAACCTACTGTCTCAACGTCATGAAGGGCTGCTTGGCAAAT
 CAGGCTGACCTCGACACAGAGTGGAATCTGTTTATAGATGCAATGCTCTTGGTGGCAGAGCGACTGGAGG
 GGCCATTCAACATTGAGTCGGTCACTGGACCCGATAGATGTCAAGATTTCTGAAGCCATTATGAACATGCA
 AGAAAACAGCATGCAGGTGTCTGCAAGGCTTTTCAAGGATGTGGTCAGCCCAAACCTGCTCCAGCCCTC
 AGATCTGCCCGCTCAGCTCCTGAAAATTTTAAACACGTTTTCAGGCCCTACAATCCTGAGGAAAGACCAA
 CAACTGCTGCAGGCACAAGCTTGGACCGGCTGGTCACAGACATAAAAGAGAAATGAAGCTCTCTAAAAA
 GGTCTGGTCAGCATTACCTACACTATCTGCAAGGACGAGAGCGTGACAGCGGGCACGTCCAACGAGGAG
 GAATGCTGGAACGGGCACAGCAAGGCCAGATACTTGCTGAGATCATGAATGATGGGCTCACCAACCAGA
 TCAATAATCCCGAGGTGGATGTGGACATCACTCGGCCCTGACACTTTCATCAGACAGCAGATTATGGCTCT
 CCGTGTGATGACCAACAACTAAAAACGCCTACAATGGCAATGATGTCAATTTCCAGGACACAAGTGAT
 GAATCCAGTGCTCAGGGAGTGGCAGTGGGTGCATGGATGACGTGTGTCACGAGGAGTTTGAATTTGTCA
 CCACAGAGGCCCCCGCAGTGGATCCCGACCGGAGAGGTGGACTCTTCTGCAGCCCAGCGTGGCCACTC
 CTGCTCTCTGCTCTCACCTGCATTGTCTGGCACTGCAGAGACTGTGCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

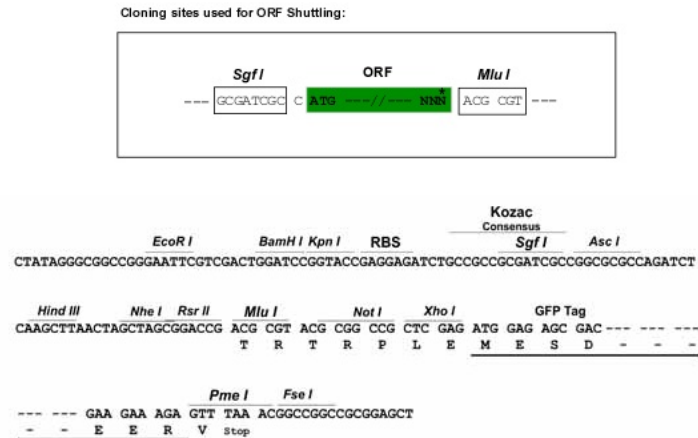
Protein Sequence: >RG218389 representing NM_005708
 Red=Cloning site Green=Tags(s)

MPSWIGAVILPLLGLLLSLPAGADVKAARSCGEVRQAYGAKGFSADIPYQEIAGEHLRIPCQEYTCCTTE
 MEDKLSQQSKLEFENLVEETSHFVRTTFVSRHKFDEFRELLLENAEKSNDMFVRTYGMLYMQNSEVFQ
 DLFTTELKRYTGGNVNLEMLNDFWARLLERMFQLINPQYHFSEDYLECVSKYTDQLKPFQDVPRKLKIQ
 VTRAFIAARTFVQGLTVGREVANRVSKVSPTPGCIRALMKMLYCPYCRGLPTVRPCNNYCLNVMKGCLAN
 QADLDEWNLFIDAMLLVAERLEGPFNIESVMDPIDVKISEAIMNMQENSMQVSAKFQCGQPKPAPAL
 RSARSAPENFNTRFRPNPEERPTTAAGTSLDRLVTDIKEKLKLSKKVWSALPYTICKDESVTAGTSNEE
 ECWNGHISKARYLPEIMNDGLTNQINNPEVDVDITRPDTFIRQQIMALRVMTNKLKNAYNGNDVNFQDTS
 ESSSGSGSGCMDDVCPTEFEFVTTEAPAVDPDRREVDSAAQRGHSLLSWSLTCIVLALQRLCR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005708

ORF Size: 1665 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_005708.2](#), [NP_005699.1](#)

RefSeq Size: 2760 bp

RefSeq ORF: 1668 bp

Locus ID: 10082

UniProt ID: [Q9Y625](#)

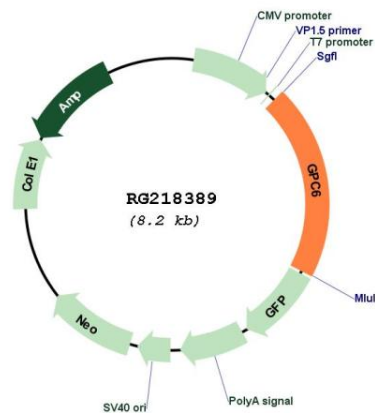
Cytogenetics: 13q31.3-q32.1

Domains: Glypican

Protein Families: Druggable Genome

Gene Summary: The glypicans comprise a family of glycosylphosphatidylinositol-anchored heparan sulfate proteoglycans, and they have been implicated in the control of cell growth and cell division. The glypican encoded by this gene is a putative cell surface coreceptor for growth factors, extracellular matrix proteins, proteases and anti-proteases. Mutations in this gene are associated with omodysplasia 1. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RG218389