

Product datasheet for **SC116571**

Glypican 6 (GPC6) (NM_005708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 6 (GPC6) (NM_005708) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glypican 6
Synonyms:	OMIMD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116571 sequence for NM_005708 edited (data generated by NextGen Sequencing)

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ATGCCTTCTTGGATCGGGGCTGTGATTCTTCCCCTCTTGGGGCTGCTGCTCTCCCTCCCC
GCCGGGGCGGATGTGAAGGCTCGGAGCTGCGGAGAGGTCCGCCAGGCGTACGGTGCCAAG
GGATTACGCTGGCGGACATCCCCTACCAGGAGATCGCAGGGGAACACTTAAGAATCTGT
CCTCAGGAATATACATGCTGCACCACAGAAATGGAAGACAAGTTAAGCCAACAAAGCAAA
CTCGAATTTGAAAACCTTGTGGAAGAGACAAGCCATTTTGTGCGCACCCTTTTGTGTCC
AGGCATAAGAAATTTGACGAATTTTCCGAGAGCTCCTGGAGAATGCAGAAAAGTCACTA
AATGATATGTTTGTACGGACCTATGGCATGCTGTACATGCAGAATTCAGAAGTCTTCCAG
GACCTCTTCACAGAGCTGAAAAGGTACTACACTGGGGTAATGTGAATCTGGAGGAAATG
CTCAATGACTTTTGGGCTCGGCTCCTGGAACGGATGTTTCAGCTGATAAACCCCTCAGTAT
CACTTCAGTGAAGACTACCTGGAATGTGTGAGCAAATACACTGACCAGCTCAAGCCATTT
GGAGACGTGCCCGGAACTGAAGATTCAGGTTACCCGCGCTTCATTGCTGCCAGGACC
TTTGTCCAGGGGCTGACTGTGGCAGAGAAGTTGCAAACCGAGTTTCCAAGGTCAGCCCA
ACCCAGGGTGTATCCGTGCCCTCATGAAGATGCTGTACTGCCATACTGTCGGGGGCTT
CCCACTGTGAGGCCCTGCAACAATACTGTCTCAACGTATGAAGGGCTGCTTGGCAAT
CAGGCTGACCTCGACACAGAGTGAATCTGTTTATAGATGCAATGCTCTTGGTGGCAGAG
CGACTGGAGGGGCCATTCAACATTGAGTCGGTCATGGACCCGATAGATGTCAAGATTTCT
GAAGCCATTATGAACATGCAAGAAAACAGCATGCAGGTGTCTGCAAGGTCTTTTCAGGGA
TGTGGTCAGCCCAACCTGCTCCAGCCCTCAGATCTGCCCGCTCAGCTCCTGAAAATTTT
AATACACGTTTCAGGCCCTACAATCCTGAGGAAAGACCAACAACCTGCTGCAGGCACAAGC
TTGGACCGGCTGGTCACAGACATAAAGAGAAATTGAAGCTCTCTAAAAAGGTCTGGTCA
GCATTACCTACACTATCTGCAAGGACGAGAGCGTGACAGCGGGCACATCCAACGAGGAG
GAATGCTGGAACGGGCACAGCAAAGCCAGATACTTGCTGAGATCATGAATGATGGGCTC
ACCAACCAGATCAACAATCCCGAGGTGGATGTGGACATCACTCGGCTGACACTTTCATC
AGACAGCAGATTATGGCTCTCCGTGTGATGACCAACAACATAAAAAACGCTACAATGGC
AATGATGTCAATTTCCAGGACACAAGTATGAATCCAGTGGCTCAGGGAGTGGCAGTGGG
TGCATGGATGACGTGTGTCCACGGAGTTTGTGTTTGTACCACAGAGGCCCCCGCAGTG
GATCCCGACCGGAGAGAGGTGGACTCTTCTGCAGCCAGCGTGGCCACTCCCTGCTCTCC
TGGTCTCTCACCTGCATTGTCTGGCACTGCAGAGACTGTGCAGATAA
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Clone variation with respect to NM_005708.3
1248 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005708 unedited

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TCGGCACGAGGCGGCGAGGAGCGCGCCGCTGCCTCTGGCGGGCTTTCGGCTTGAGGGGCA
AGGTGAAGAGCGCACCGGCCGTGGGGTTTACCGAGCTGGATTTGTATGTTGCACCATGCC
TTCTTGGATCGGGGCTGTGATTCTTCCCCTCTTGGGGCTGCTGCTCTCCCTCCCCGCCGG
GGCGGATGTGAAGGCTCGGAGCTGCGGAGAGGTCCGCCAGGCGTACGGTGCCAAGGGATT
CAGCCTGGCGGACATCCCCTACCAGGAGATCGCAGGGGAACACTTAAGAATCTGTCTCA
GGAATATACATGCTGCACCACAGAAATGGAAGACAAGTTAAGCCAACAAAGCAAACCTCGA
ATTTGAAAACCTTGTGGAAGAGACAAGCCATTTTGTGCGCACCCTTTTGTGTCCAGGCA
TAAGAAATNTGACGAATTTTCCGAGAGCTCCTGGAGATTGCCAGAAAGTCACTAAATGA
TATGTTTGTACGGACCTATGGCATGCTGTACATGCAGAATTCAGAAGTCTCCAGGACCT
CTTCACAGAGCTGAAAGGACTACACTGGGGTAATGTGAATCTGGAGGAAATGCTCAAT
GACTTTTGGGCTCCGCTCCTGGAACGGATGTTTACCTGATAACCCTCATATCACTTCA
GTGAAGACTACCTGGAATGTGTGAGCAAATACACTGACCAGCCTAAGCCATTGGGAGACG
TGCCCCGGAAACTGAAGATCCAGGTTACCCCGCCTTTATTGCTGCCAGCACCTTTGTTC
AGGGGCTGCT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005708 unedited <pre> TTTTNNGGATTTATCTATGNNACCGCGCCGCAANCTAGNGATCGATTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTAGATTTTAAAACTATTTAATACAAGATTAATAGCAATT TTCTATCCAAATCAGAAATGAAAAATCTTAACCCAAATAATATTCATTTGACAGTCACAT AAAATTTTAGATTTGAGTGGGGCACACATTTATCCTGCATATATATTATGTATATGCACA GAGAGACCTCACTATTATGCCATTGTTAGGGTCTTTTTTGGAGTACCTCATTACAAG GCAATGTCAAAGTTCCAGTAAGTCACTCACTTTGAATGAAGTTCAAAATGTCCCATGC TAAGCTGAGTCTGTGCCATAGCAAACCATGATATAGCAAGTCTCCAGAATGTGTACAAAT CAATACTCTGTTGTATAAGTTGGTCTAACTAAACACTGGCTAATGTCTCCAACAAGG AGGAACACATTACAAATTTATAAGTTATGGGTTCTTTACTCTTCTGTTGGCAAAGCTAA ATTGTGTTTTTAAATAAAAAATCAGGTCTGTTTCGTTAGTAAGTAAATGGAAATGTGTTAA ATTTCTGCAAGTTTTAGGTAAACTTGCATTTCTAATGCGTCTAGGTTTAAATCAATCA TTTGATAATTAGCTTTGCAAAAAGAAGTAATAAAGAATCACATCTCAGGAATATGTTAA GGGTTTTTTCTCCTTTAGGACTTTAAGTNCGTGTTGAGTCTGTAGCCGAAACATGTAT GTAATGGCAAAAGAAATTAAGAAGCTAATGTCTGCAGCAGGGATATAAATTAATCAAG GTNCGCCTGTAATATATTTTCAGTGGTTGCTTTAAGAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005708
Insert Size:	6000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_005708.2</u> , <u>NP_005699.1</u>
RefSeq Size:	2760 bp
RefSeq ORF:	1668 bp
Locus ID:	10082
UniProt ID:	<u>Q9Y625</u>
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]