

## Product datasheet for **SC117333**

### Glypican 3 (GPC3) (NM\_004484) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 3 (GPC3) (NM_004484) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glypican 3
Synonyms:	DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117333 sequence for NM\_004484 edited (data generated by NextGen Sequencing)

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ATGGCCGGGACCGTGCGCACCGCGTGCTTGGTGGTGGCGATGCTGCTCAGCTTGGACTTC
CCGGGACAGGCGCAGCCCCCGCCGCCCGCCGACGCCACCTGTACCAAGTCCGCTCC
TTCTTCCAGAGACTGCAGCCCGACTCAAGTGGGTGCCAGAACTCCCGTCCAGGATCA
GATTTGCAAGTATGTCTCCCTAAGGGCCCAACATGCTGCTCAAGAAAGATGGAAGAAAA
TACCAACTAACGCACGATTGAACATGGAACAGCTGCTTCAAGTCTGCAAGTATGGAGCTC
AAGTTCTTAATTATTGCAATGCTGCGGTTTTCCAAGAGCCCTTTGAAATTGTTGTTCCG
CATGCCAAGAACTACACCAATGCCATGTTCAAGAACAACCTACCCAAGCCTGACTCCACAA
GCTTTTGAAGTTTGGGTGAATTTTTCACAGATGTGTCTCTACATCTTGGGTTCTGAC
ATCAATGTAGATGACATGGTCAATGAATTGTTTGACAGCCTGTTCCAGTCATCTATACC
CAGCTAATGAACCCAGGCTGCCTGATTGAGCCTTGGACATCAATGAGTGCCTCCGAGGA
GCAAGACGTGACCTGAAAGTATTTGGGAATTTCCCAAGCTTATTATGACCCAGGTTTCC
AAGTCACTGCAAGTCACTAGGATCTTCTTCCAGGCTCTGAACTTGGAAATGAAGTGATC
AACACAACCTGATCACCTGAAGTTGAGTAAAGGACTGTGGCCGAATGCTCACCAGAATGTTG
TACTGCTCTTACTGCCAGGGACTGATGATGGTTAAACCCTGTGGCGGTTACTGCAATGTG
GTCATGCAAGGCTGTATGGCAGGTGTGGTGGAGATTGACAAGTACTGGAGAGAATACATT
CTGTCCCTTGAAGAACTTGTGAATGGCATGTACAGAATCTATGACATGGAGAACGTAAGT
CTTGGTCTCTTTCAACAATCCATGATTCTATCCAGTATGTCCAGAAGAATGCAGGAAAG
CTGACCACCACTATTGGCAAGTTATGTGCCATTCTCAACAACGCCAATATAGATCTGCT
TATTATCTGAAGATCTCTTTATTGACAAGAAAGTATTTAAAGTTGCTCATGTAGAACAT
GAAGAAACCTTATCCAGCCGAAGAAGGGAATAATTGAGAAGTTGAAGTCTTTCATCAGC
TTCTATAGTCTTTGCCCTGACTACATCTGCAGCCATAGCCCTGTGGCGGAAAACGACACC
CTTTGCTGGAATGGACAAGAACCTGTGGAGAGATACAGCCAAAAGGCAGCAAGGAATGGA
ATGAAAAACCAAGTTCAATCTCCATGAGCTGAAAATGAAGGGCCCTGAGCCAGTGGTCAGT
CAAATTATTGACAAAACCTGAAGCACATTAACCAGCTCCTGAGAACCATGTCTATGCCAAA
GGTAGAGTTCTGGATAAAAAACCTGGATGAGGAAGGGTTTGAAGTGGAGACTGCGGTGAT
GATGAAGATGAGTGCATTGGAGGCTCTGGTGTGGAATGATAAAAGTGAAGAATCAGCTC
CGTCTCCTTGCAAACTGGCCTATGATCTGGATGTGGATGATGCGCCTGGAAACAGTCAG
CAGGCAACTCCGAAGGACAACGAGATAAGCACCTTTCACAACCTCGGGAACGTTTCATTCC
CCGCTGAAGCTTCTCACCAGCATGGCCATCTCGGTGGTGTGCTTCTTCTCTCTGGTGAC
TGA
    
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Clone variation with respect to NM\_004484.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004484 unedited

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GAGATACGACTCACTATAGGGCGCGCGAATTCGGCACGAGCCAGCGCCAGGTAGTC
GCGAGGAAACTTTTGCAGCGGCTGGGTAGCAGCACGTCTTTGCTCCTCAGGGCCACTGC
CAGGCTTGCCGAGTCTGGGACTGCTCTCGCTCCGGCTGCCACTCTCCCGCCTCTCCTA
GCTCCCTGCGAAGCAGGATGGCCGGGACCGTGCGCACCGCGTGCTTGGTGGTGGCGATGC
TGCTCAGCTTGGACTTCCCGGGACAGGCGCAGCCCCCGCCGCCGCGGACGCCACCT
GTCACCAAGTCCGCTCCTTCTTCCAGAGACTGCAGCCCGACTCAAGTGGGTGCCAGAAA
CTCCCGTCCAGGATCAGATTTGCAAGTATGTCTCCCTAAGGGCCCAACATGCTGCTCAA
GAAAGATGGAAGAAAAATACCAACTAACAGCACGATTGAACATGGAACAGCTGCTTCAAGT
CTGCAAGTATGGAGCTCAAGTTCTTAATTATTGCAATGCTGCGGTTTTCCAAGAGCCCT
TTGAAATTGTTGTTGCGCCATGCCAAGAACTACACCAATGCCATGTTCAAGAACAACCTACC
CAAGCCTGACTCCACAAGCTTTTGGATTGTTGGTGAATTTTTTCACAGATGTGTCTCTCT
ACCATCTGGGTTCTGACATCAATGTAGATGACATGCTCAATGAATTGTTTGACAGCCTGT
TTCCAGTCATCTATACCCAGCTAATGAACCCAGCCCTGCCTGATTACCCCTTGGACATC
AATGAGTGCCCTCCGAGGAGCAAGACGTGACCCTGAAAGTATTTGGGAATTTCCCGAGCT
TATTATGACCCAGNTCTCCAAGCCCTGGAAGTCACTAGACCTTCTTAGGCTCTGATCCT
GGATGGAGGGTCAACCAACTGACCCCTGAGTTCATAGGACTGGCC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004484 unedited GCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGAGCAATTTATTTTTTTTCA AAGAAATCCATGCAAAGAGAGAACGATAGAAAGGGAGGGAGTGAGAGAGAAAGACATGGT AACCATGTTCTAGCAGCCAAACATAGGAGAATAATTTGGCACAATTGATGGTTTTTTTTT CTTTCTTTGCAAAAGGACAATCTATATGCTACCACTAAAATGTATCTTCTCCAAAAGAT ACCATTTGATTTTCGAAAACATAACACATGGTTAGTCCTCTACTTCATGGCTGGAGGAGG TATACAGGATAACAAAAAAAAAAAAATAGAAAAAAAAAAGAAAGTGGTTCCCTTTATCGA GGAAGACCACAGGTGCTGTAGGGCAGCACATGTGCTGGCACCAGGCAGTCAGTGCACC AGGAAGAAGAAGCACACCACCGAGATGGCCATGCTGGTGAGAAGCTTCAGCGGGGAATGA ACGTTCCCGAGGTTGTGAAAGGTGCTTATCTCGTTGCTCTTCGGAGTTGCCTGCTGACTG TTTCCAGGCGCATCATCCACATCCAGATCATAGGCCAGTTCTGCAAGGAAGCGGAGCTGA TTCTTCACTTTTATCATTCCATCACCAGAGCCTNCAATGCACTCATCTTCATCATCACCG CAGTCTCCACTTTCAAACCTTCTCATCCAGGTTTTTATCCAGAACTCTACCTTTTGGC ATAGACATGGCTCTCAGGAGCTGNTATGTGCCTCAGTTTGTCAATAATTGACTGACACT GCCTCAGGCCCTTCATTTAGCTCATGGAGATGGAACGGGTTTTTCATCCAATCCTTGCT GCCTTTGGCTGGACTCTCCCGAGTTTCTGTCTTTCAGCCAAGGTGGCGTTTCCGCCACA GGCTATGCTGCGAAGTACCCCGAAGACTTTAAAGCTGGGAAGACTCACCTCTGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004484
<b>Insert Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004484.2</a> , <a href="#">NP_004475.1</a>
<b>RefSeq Size:</b>	2382 bp

RefSeq ORF: 1743 bp

Locus ID: 2719

UniProt ID: [P51654](#)

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 protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.