

Product datasheet for **SC110893**

Glypican 4 (GPC4) (NM_001448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 4 (GPC4) (NM_001448) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glypican 4
Synonyms:	K-glypican; KPTS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110893 sequence for NM_001448 edited (data generated by NextGen Sequencing)

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ATGGCACGGTTTCGGCTTGCCCGCGCTTCTCTGCACCCTGGCAGTGCTCAGCGCCGCGCTG
CTGGCTGCCGAGCTCAAGTCGAAAAGTTGCTCGGAAGTGCAGCTCTTTACGTGTCCAAA
GGCTTCAACAAGAACGATGCCCCCTCCACGAGATCAACGGTGATCATTGAAGATCTGT
CCCCAGGGTTCTACCTGCTGCTCTCAAGAGATGGAGGAGAAGTACAGCCTGCAAAGTAAA
GATGATTTCAAAGTGTGGTCAGCGAACAGTGAATCATTGCAAGCTGTCTTTGCTTCA
CGTTACAAGAAGTTGATGAATTCCTTCAAAGAAGTACTTGAAAATGCAGAGAAATCCCTG
AATGATATGTTTGAAGACATATGGCCATTTATACATGCAAAATTCTGAGCTATTTAAA
GATCTCTTCGTAGAGTTGAAACGTTACTACGTGGTGGGAAATGTGAACCTGGAAGAAATG
CTAAATGACTTCTGGGCTCGCCTCCTGGAGCGGATGTTCCGCCTGGTGAACCTCCAGTAC
CACTTTACAGATGAGTATCTGGAATGTGTGAGCAAGTATACGGAGCAGCTGAAGCCCTC
GGAGATGCCCTCGCAAATTGAAGCTCCAGTTACTCGTCTTTGTAGCAGCCCGTACT
TTCGCTCAAGGCTTAGCGGTTGCGGGAGATGTCGTGAGCAAGGTCTCCGTGGTAAACCC
ACAGCCCAGTGTACCCATGCCCTGTTGAAGATGATCTACTGCTCCCACTGCCGGGTCTC
GTGACTGTGAAGCCATGTTACAAGTACTGCTCAAACATCATGAGAGGCTGTTGGCCAAC
CAAGGGGATCTCGATTTTGAATGGAACAATTTTATAGATGCTATGCTGATGGTGGCAGAG
AGGCTAGAGGGTCTTTCAACATTGAATCGGTCATGGATCCCATCGATGTGAAGATTTCT
GATGCTATTATGAACATGCAGGATAATAGTGTTCAAGTGTCTCAGAAGGTTTTCCAGGGA
TGTGGACCCCCAAGCCCTCCAGCTGGACGAATTTCTCGTTCATCTCTGAAAGTGCC
TTCAGTGTCTCGTTCAGACCACATCACCCGAGGAACGCCAACCACAGCAGCTGGCACT
AGTTTGGACCGACTGGTTACTGATGTCAAGGATAAACTGAAACAGGCCAAGAAATCTGG
TCCTCCCTCCGAGCAACGTTTGAACGATGAGAGGATGGCTGCAGGAAACGGCAATGAG
GATGACTGTTGGAATGGGAAAGGCAAAAAGCAGGTACCTGTTGACAGTACAGGAAATGGA
TTAGTCAACCAGGGCAACAACCCAGAGGTCAGGTTGACACCAGCAAACCAGACATACTG
ATCCTTCGTCAAATCATGGCTCTTCGAGTGATGACCAGCAAGTGAAGAATGCATACAAT
GGGAACGACGTGGACTTCTTTGATATCAGTGATGAAAGTGTGGAGAAGGAAAGTGAAGT
GGCTGTGAGTATCAGCAGTGCCTTCAGAGTTGACTACAATGCCACTGACCATGCTGGG
AAGAGTGCCAATGAGAAAGCCGACAGTGTGGTGTCCGTCTGGGGCACAGGCCTACCTC
TCACTGTCTTCTGCATCTTGTCTCTGGTTATGCAGAGAGAGTGGAGATAA
    
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Clone variation with respect to NM_001448.2
 1173 g=>t;1325 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001448 unedited

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GCAGAATTTGTATACGACTCCTATAGGCGGCCCGCAATCGGCACGAGGCGGGTTCGCT
GCCCGCGAAACCCCGAGGTCACCAGCCCGCCTCTGCTTCCCTGGGCCGCGCCGCC
TCCACGCCCTCCTTCTCCCTGGCCCGGCCTGGCACCCGGGACCGTTGCCTGACGCGA
GGCCAGCTCTACTTTTTGCCCCGCGTCTCCTCCGCTGCTCGCCTTTCCACCAACTCC
AACTCCTTCTCCCTCCAGCTCCACTCGTAGTCCCGACTCCGCCAGCCCTCGGCCCGCT
GCCGTAGCGCCGCTTCCCGTCCGGTCCCAAAGGTGGGAACGCGTCCGCCCGGCCGAC
CATGGCACGGTTCGGCTTGCCCGCGCTTCTCTGCACCCTGGCAGTGCTCAGCGCCGCT
GCTGGCTGCCGAGCTCAAGTCGAAAAGTTGCTCGGAAGTGCAGCTCTTTACGTGCCAA
AGGCTTCAACAAGAACGATGCCCCCTCCACGAGATCAACGGTGATCATTGAAGATCTG
TCCCCAGGGTTCTACCTGCTGCTCTCAAGAGATGGAGGAGAAGTACAGCCTGCAAAGTAN
AGATGATTTCAAAGTGTGGTCAGCGAACAGTGAATCATTGCAAGCTGTCTTTGCTTC
ACGTTACAAGAAGTTGATGAATTCCTTCAAAGAAGTACTTTGAAAATGCAGAGAAATCCCT
GAATGATATGTTTGAAGACATATGGCCATTTATACATGCAAAATTCTGAGCTATTTAA
AGATCTCTTCGTAGAGTTGAAAACGTAACGTGGTGGGAAATGTGACCCTGGAAGAA
GCTCAATGACTCCTGGGCTCCGCTCTGAAACCGGAGTTCGCCCGGTTGAACTCCCACT
ACCACTTAAAGTAGAAGATCTGGGGATGGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001448 unedited GGGGGGTGGGTTTTNTATTTAATAAAAAAAAAAGGGTTTCTGGTGGGCTTTTCCTTTT AATAGNAACTGNATAAAATAAACCTGCTTCTGTACAGCTATTTAATTTTCAGAAATAC GTACATGTTACGTGCCAAGAAGGGACCCCTGGTTTGCTTGTAAAGAAACAGGCGAGATCACA GTTGGAAAAAAAAACCCACAAATCGAAATTGAGAAAAAAAAACATAACAAATAATAGAG TGATAAAATCACAAATGCACAATACTATAGTTCTGTACCTACACTGTTAGCCACGTTT AACATGGTTTGGGGGAGCAGGAACCAACTCAATGCACAGTCCCTTTTCTCCAAAACG AATGAGAAAAACAAGTCAGCACTTCTTAAACCAAGTGGCCACATAGTAAAACTGTACATT GTTGTCCATTCATTTAAAAGCAAAGTCACTAGGATGGTAGAAAAGTGATAACTGGTGCC TTTTAACTTTTTGATGAACACTTTTTCTCAGAGTTTGAGAATTATCTCCACTCTCTCTGC ATAACCAGGAACAAGATGCAGAAGACAGTGAGGAGGTAGGCCTGTGCCCCAGGACGGACA CCAGCACTGTGGCTTTCTCATTGGCACTTCCAGCATGGTCAGTGGCATTGTAGTCA AACTCTGAAGGGCACTGCTGATACTCACAGCCACTTCCACTTCTCTCCACTACTTTCA TACTGATATCAAAGAAGTCCACGTCGTCCCATTGGATGCATTCTTAATCTTGCTGGTC ATCACTCGAAGAGCCATGATTTGACGAAGGATCAGTATTGTCTGGTTTGGTGGTGTCAAC CTGGACCTCTGGTTGGTGCCCTGGTTGACTAATTCATTTCTGTCACTGCAAACAAGGT CCTGCTTTTGTCTTTCCCTTTCCACAGTCATTCTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_001448
Insert Size:	3020 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:	<ol style="list-style-type: none"> 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_001448.2</u> , <u>NP_001439.2</u>
RefSeq Size:	3714 bp
RefSeq ORF:	1671 bp
Locus ID:	2239
UniProt ID:	<u>O75487</u>
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]