

Product datasheet for **RG228491**

Glypican 3 (GPC3) (NM_001164617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 3 (GPC3) (NM_001164617) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glypican 3
Synonyms:	DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228491 representing NM_001164617
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGACCGTGCACACCGCTGCTTGGTGGTGGCGATGCTGCTCAGCTTGGACTTCCCGGGACAGG
 CGCAGCCCCCGCCGCGCCGCGGACGCCACCTGTCAACCAAGTCCGCTCCTTCTCCAGAGACTGCAGCC
 CGGACTCAAGTGGGTGCCAGAACTCCCGTGCCAGGATCAGATTTGCAAGTATGTCTCCCTAAGGGCCCA
 ACATGCTGCTCAAGAAAGATGGAAGAAAAATACCAACTAACAGCACGATTGAACATGGAACAGCTGCTTC
 AGTCTGCAAGTATGGAGCTCAAGTTCTTAATTATTCAGAATGCTGCGGTTTTCCAAGAGGCCCTTGAAT
 TGTTGTTCCGCATGCCAAGAACTACACCAATGCCATGTTCAAGAACAACCTACCAAGCCTGACTCCACAA
 GCTTTTGAGTTTGTGGTGAATTTTACAGATGTGTCTCTACATCTTGGTTCTGACATCAATGTAG
 ATGACATGGTCAATGAATTGTTTACAGCCTGTTCCAGTCATCTATACCCAGCTAATGAACCCAGGCCCT
 GCCTGATTCAGCCTTGGACATCAATGAGTGCCTCCGAGGAGCAAGACGTGACCTGAAAGTATTTGGGAAT
 TTCCCAAGCTTATTATGACCCAGGTTTCCAAGTCACTGCAAGTCACTAGGATCTTCCTTCAGGCTCTGA
 ATCTTGGAATTGAAGTATCAACACAACCTGATCACCTGAAGTTCAGTAAGGACTGTGGCCGAATGCTCAC
 CAGAATGTGGTACTGCTCTTACTGCCAGGGACTGATGATGGTTAAACCCTGTGGCGGTTACTGCAATGTG
 GTCATGCAAGGCTGTATGGCAGGTGTGGTGGAGATTGACAAGTACTGGAGAGAATACATTCTGTCCTTG
 AAGAACTGTGAATGGCATGTACAGAATCTATGACATGGAGAACGTAAGTCTGCTTTTCAACAAT
 CCATGATTCATCCAGTATGTCCAGAAGATGCAGGAAAGCTGACCACCACTGAACTGAGAAGAAAATA
 TGGCACTCAAATATCCTATCTTCTTCTGTGTATAGGGCTAGACTTACAGATTGGCAAGTTATGTGCC
 ATTCTCAACAACGCCAATATAGATCTGCTTATTATCCTGAAGATCTCTTTATTGACAAGAAAGTATAAA
 AGTTGCTCATGTAGAACATGAAGAAACCTTATCCAGCCGAAGAAGGGAACATAATCAGAAGTTGAAGTCT
 TTCATCAGCTTCTATAGTCTTTGCCTGGCTACATCTGCAGCCATAGCCCTGTGGCGGAAAAACGACACCC
 TTTGCTGGAATGGACAAGAACTCGTGGAGAGATACAGCCAAAAGGCAGCAAGGAATGGAATGAAAAACCA
 GTTCAATCTCCATGAGCTGAAAAAGAGGGCCCTGAGCCAGTGGTCAAGTCAAATTATTGACAAAAGTGAAG
 CACATTAACCAGCTCCTGAGAACCATGTCTATGCCCAAAGGTAGAGTTCTGGATAAAAACCTGGATGAGG
 AAGGGTTTGAAGTGGAGACTGCGGTGATGATGAAGATGAGTGCATTGGAGGCTCTGGTATGGAATGAT
 AAAAGTGAAGAATCAGCTCCGCTTCTTGCAGAACTGGCCTATGATCTGGATGTGGATGATGCGCCTGGA
 AACAGTCAGCAGGCAACTCCGAAGGACAACGAGATAAGCACCTTTCACAACCTCGGGAACGTTTCATCCC
 CGCTGAAGCTTCTACCAGCATGCCATCTCGGTGGTGTCTTCTTCTCTGGTGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228491 representing NM_001164617
 Red=Cloning site Green=Tags(s)

MAGTVRTACLVVAMLLSLDFPGQAQPPPPPDATCQVRSFFQRLQPGLKWPETPVPGSDDLQVCLPKGP
 TCCSRKMEEKYQLTARLNMEQLLQSASMEKFLIIQNAAVFQEAFEIVVRHAKNYTNAMFKNNYPSLTPQ
 AFEFVGEFFTDVSLYILGSDINVDDMVNELFDSLFPVIYQLMNPGLPDSALDINECLRARRDLKVFNG
 FPKLIMTQVSKSLQVTRIFLQALNLGIEVINTTDHLKFSKDCGRMLTRMWYCSYQGLMMVKPCGGYCNV
 VMQGCMAVVEIDKYWREYILSLEELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNAGKLTETEKKI
 WHFKYPIFFLCIGLDLQIGKLCASQQRQYRSAYYPEDLFDKVKLVKVAHVEHEETLSSRRRELIQKLS
 FISFYALPGYICSHSPAENDTLCWNGQELVERYSQKAARNGMKNQFNLHELKMKGPEPVVSQIIDKLL
 HINQLLRTMSMPKGRVLDKNLDEEGFESGDCGDEDECIGSGSGDMIKVKNQLRFLAELAYDLVDVDDAPG
 NSQATPKDNEISTFHNLGNVHSPKLLTSMASVVCFFFLVH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN:	NM_001164617
ORF Size:	1809 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:	<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:	NM_001164617.2
RefSeq Size:	2398 bp
RefSeq ORF:	1812 bp
Locus ID:	2719
UniProt ID:	P51654
Cytogenetics:	Xq26.2

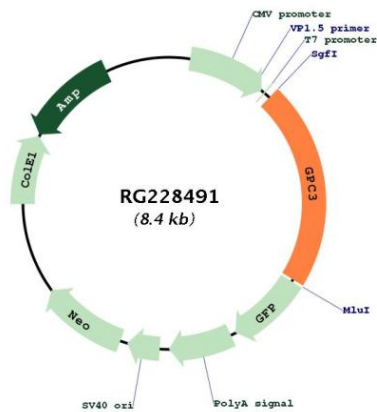
Protein Families:

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]

Product images:



Circular map for RG228491