

## Product datasheet for **RG228459**

### Glypican 3 (GPC3) (NM\_001164618) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 3 (GPC3) (NM_001164618) 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:**

>RG228459 representing NM\_001164618  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGGGACCGTGCACCCGCTGCTTGGTGGTGGCGATGCTGCTCAGCTTGGACTTCCCGGGACAGG  
 CGCAGCCCCCGCCGCGCCGCGGACGCCACCTGTCAACCAAGTCCGCTCCTTCTCCAGAGACTGCAGCC  
 CGGACTCAAGTGGGTGCCAGAACTCCCGTGCCAGGATCAGATTTGCAAGTATGTCTCCCTAAGGGCCCA  
 ACATGCTGCTCAAGAAAGATGGAAGAAAAATACCAACTAACAGCACGATTGAACATGGAACAGCTGCTTC  
 AGTCTGCAAAGGCCTTTGAAATTGTTGTTCCGCATGCCAAGAATAACCAATGCCATGTTCAAGAACAA  
 CTACCCAAGCCTGACTCCACAAGCTTTGAGTTTGTGGTGAATTTTTCACAGATGTGTCTCTACATC  
 TTGGTTCTGACATCAATGTAGATGACATGGTCAATGAATTGTTGACAGCCTGTTCCAGTCATCTATA  
 CCCAGCTAATGAACCCAGGCCTGCCTGATTCAGCCTTGGACATCAATGAGTGCCTCCGAGGAGCAAGACG  
 TGACCTGAAAGTATTTGGGAATTTCCCAAGCTTATTATGACCCAGGTTTCCAAGTCACTGCAAGTCACT  
 AGGATCTTCCTCAGGCTCTGAATCTTGAATGAAGTATCAACACAACCTGATCACCTGAAGTTACAGTA  
 AGGACTGTGGCCGAATGCTCACCAGAATGTGGTACTGCTTACTGCCAGGGACTGATGATGGTTAAACC  
 CTGTGGCGGTTACTGCAATGTGGTCAATGCAAGGCTGTATGGCAGGTGTGGTGGAGATTGACAAGTACTGG  
 AGAGAATACATCTGTCCCTTGAAGAATTGTGAATGGCATGTACAGAATCTATGACATGGAGAACGTAC  
 TGCTTGGTCTCTTTCAACAATCCATGATTCTATCCAGTATGCCAGAAGAATGCAGGAAAGCTGACCAC  
 CACTATTGGCAAGTATGTGCCATTCTCAACAACGCCAATATAGATCTGCTTATTATCCTGAAGATCTC  
 TTTATTGACAAGAAAGTATTAAGTTGCTCATGTAGAATGAAGAACTTATCCAGCCGAAGAAGGG  
 AACTAATTCAGAAGTTGAAGTCTTTCATCAGCTTCTATAGTCTTTCCTGGCTACATCTGCAGCCATAG  
 CCCTGTGGCGGAAAACGACACCCTTTGCTGGAATGGACAAGAAGTCTGGAGAGATACAGCCAAAAGGCA  
 GCAAGGAATGGAATGAAAACCGTTCATCTCCATGAGCTGAAAATGAAGGGCCCTGAGCCAGTGGTCA  
 GTCAAATATTGACAACTGAAGCACATTAACCAGCTCCTGAGAACCATGTCTATGCCAAAAGGTAGAGT  
 TCTGGATAAAAACCTGGATGAGGAAGGGTTTGAAGTGGAGACTGCGGTGATGATGAAGTGAAGTGCATT  
 GGAGGCTCTGGTGAATGATAAAAGTGAAGAATCAGTCCGCTTCTTGCAGAACTGGCCTATGATC  
 TGGATGTGGATGATGCGCCTGAAAACAGTCAGCAGGCAACTCCGAAGGACAACGAGATAAGCACCTTTCA  
 CAACCTCGGGAACGTTTATCCCGCTGAAGCTTCTCACCAGCATGGCCATCTCGGTGGTGTCTCTTC  
 TTCTGGTGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228459 representing NM\_001164618  
 Red=Cloning site Green=Tags(s)

MAGTVRTACLVVAMLLSLDFPGQAQPPPPPDATCQVRSFFQRLQPGLKWPETPVPGSDLQVCLPKGP  
 TCCSRKMEEKYQLTARLNMEQLLQSAFAFEIVVRHAKNYTNAMFKNNYPSLTPQAFEFVGEFFTDVSLYI  
 LGSDINVDDMVNELFDSLFPVIYQLMNPGLPDSALDINECLRGARRDLKVFGNFPKLIQTQVSKSLQVT  
 RIFLQALNLGIEVINTDHLKFSKDCGRMLTRMWYCSYQGLMMVKPCGGYCNVVMQGCMAVVEIDKYW  
 REYILSLEELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNAGKLTITIGKLCAHSQQRQYRSAYYPEDL  
 FIDKKVLKVAHVEHEETLSSRRRELIQKLKSFISFYALPGYICSHSPAENDTLCWNGQELVERYSQKA  
 ARNGMKNQFNLHELKMKGPEPVVSIIDKLNHINQLLRMTSMMPKGRVLDKNLDEEGFESGDCGDDDECI  
 GSGDGMIVKKNQLRFLAELAYDLVDVDDAPGNSQQATPKDNEISTFHNLGNVHSPLKLLTSMASVVCFF  
 FLVH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

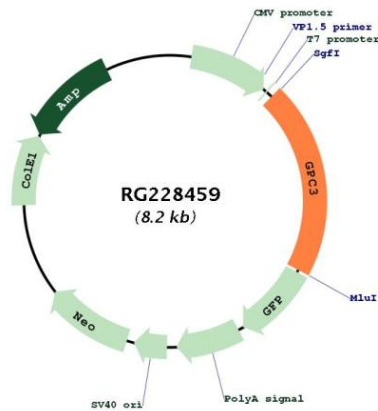
Sgfl-MluI



**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 RG228459