

## Product datasheet for **RG206633**

### Glypican 2 (GPC2) (NM\_152742) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glypican 2 (GPC2) (NM_152742) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glypican 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206633 representing NM\_152742  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCGCGCTGCGACCTCTCCTGCTTCTGCTGCTGCCTCTGTGTCCCGTCTGGTCCCGACCCGGGA  
 GCGAGGCAAAGGTACCCGGAGTTGTGCAGAGACCCGGCAGGTGCTGGGGCCCGGGGATATAGCTTAAA  
 CCTAATCCCTCCCGCCCTGATCTCAGGTGAGCACCTCCGGGTCTGTCCCAGGAGTACACCTGCTGTTCC  
 AGTGAGACAGAGCAGAGGCTGATCAGGGAGACTGAGGCCACCTCCGAGGCCTGGTGAGGACAGCGGCT  
 CCTTTCTGGTTACACACTGGCTGCCAGGCACAGAAAAATTTGATGAGTTTTTTCTGGAGATGCTCTCAGT  
 AGCCCAGACTCTCTGACCCAGCTCTTCTCCACTCTACGGCCGCTGTATGCCAGCACGCCCTCATA  
 TTCAATGGCTGTTCTCTCGGCTGCGAGACTTCTATGGGAATCTGGTGAGGGTTGGATGACACCTGG  
 CGGATTTCTGGGCACAGCTCCTGGAGAGAGTGTCCCGCTGCTGCACCCACAGTACAGCTCCCCCTGA  
 CTACCTGCTCTGCTCTCACGCTTGGCCTCATCTACCGATGGCTCTCTGCAGCCCTTTGGGGACTCACCC  
 CGCCGCTCCGCCTGCAGATAACCCGGACCTGGTGGCTGCCCGAGCCTTTGTGCAGGGCCTGGAGACTG  
 GAAGAAATGTGGTCAGCGAAGCGCTTAAGGTGCCGGTGTCTGAAGGCTGCAGCCAGGCTCTGATGCGTCT  
 CATCGGCTGTCCCTGTGCCGGGGGTCCCTCACTTATGCCCTGCCAGGGCTTCTGCCTCAACGTGGTT  
 CGTGGCTGTCTCAGCAGCAGGGGACTGGAGCCTGACTGGGGCAACTATCTGGATGGTCTCCTGATCCTGG  
 CTGATAAGCTCCAGGGCCCTTTTCTTTGAGCTGACGGCCGAGTCCATTGGGGTGAAGATCTCGGAGGG  
 TTTGATGTACCTGCAGGAAAACAGTGCGAAGGTGTCCGCCAGGTGTTTCAGGAGTGCGGCCCCCGAC  
 CCGGTGCTGCCGCAACCGTCGAGCCCCGCGCCCGGGAAGAGCGGGCCGGCTGTGGTCGATGGTGA  
 CCGAGGAGGAGCGGCCACGACGCGCCGAGCCACCAACCTGCACCGGCTGGTGTGGGAGCTCCCGAGCG  
 TCTGGCCCGGATGCGGGGCTTCTGGGCCCGGCTGTCCCTGACGGTGTGCGGAGACTCTCGCATGGCAGCG  
 GACGCTCGTGGAGGCGCGCCTGCTGGACCGAGCCGGGCGGGCCGGTACTTGCCGCCAGTGGTCTG  
 GGGCTCCCGCGCGAGCAGGTCAACAACCCGAGCTCAAGGTGGACGCTCGGGCCCCGATGTCCCGAC  
 ACGGGCGCTCGGCTACAGCTCCGGGCGCCACGGCCAGAATGAAAACGGCCGACTGGGACACGACCTG  
 GACGGGACGACGCGGATGAGGATGCCAGCGGCTCTGGAGGGGACAGCAGTATGCAGATGACTGGATGG  
 CTGGGGCTGTGGTCCCCAGCCCGCCTCCTCGGCTCCATACCCTCCTAGAAGGGATGGTTCTGGGGG  
 CAAAGGAGGAGGTGGCAGTGCCCGCTACAACAGGGCCGAGCAGGAGTGGGGGGCATCTATTGGTTTT  
 CACACCAAACCATCCTATTCTCTCCCTCAGCCCTGGCCCTGCTTGACCTCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206633 representing NM\_152742  
 Red=Cloning site Green=Tags(s)

MSALRPLLLLLLPLCPGPGPGPSEAKVTRSCAETRQVLGARGYSLNLIIPPALISGEHLRVCPQEYTCSS  
 SETEQRLIRETEATFRGLVEDSGSFLVHTLAARHRKFDEFFLEMLSVAQHSLTQLFSHSYGRLYAQHALI  
 FNGLFSRLRDFYGESGGLDDTLADFWAQLLERVFPLLHPQYSFPPDYLLCLSRLASSTDGSLQPFQDPS  
 RRLRLQITRRLVAARAFVQGLETRNVVSEALKVPVSEGCSQALMRLIGCPLCRGVPSLMPQGFCLNVV  
 RGCLSSRGLPEPDWGNLGDLLILADKLQGPFSFELTAESIGVKISEGLMYLQENSAKVSQVQECGPPD  
 PVPARNRRAPPREEAGRLWSMVTEERPTTAAGTNLHRLVWELRERLARMRGFWARLSLTVCGDSRMAA  
 DASLEAAPCWTGAGRGRYLPVVGGSAPAEQVNNPELKVDASGPDVPTRRRRLQLRAATARMKTAALGHDL  
 DGQDADEASGSGGGQYADDWMAGAVAPPARPPRPPYPPRRDGSGGKGGGSARYNQGRSRSGGASIGF  
 HTQTILILSLSALALLGPR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_152742

ORF Size: 1737 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:
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\\_152742.3](#)

RefSeq Size: 2666 bp

RefSeq ORF: 1740 bp

Locus ID: 221914

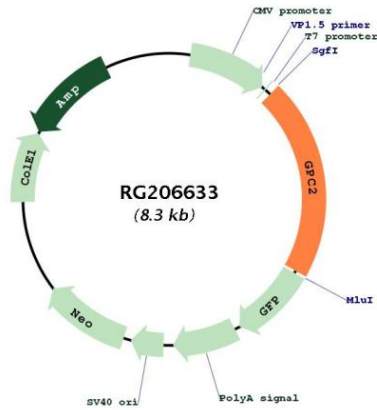
UniProt ID: [Q8N158](#)

Cytogenetics: 7q22.1

**Protein Families:** Druggable Genome

**Gene Summary:** Cell surface proteoglycan that bears heparan sulfate. May fulfill a function related to the motile behaviors of developing neurons (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206633