

Product datasheet for **RG208602**

GPC1 (NM_002081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPC1 (NM_002081) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPC1
Synonyms:	glypican
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208602 representing NM_002081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCCGGGCCGAGGCTGGTGGCTGCTATGTGCGGCCGACGCGCTGGTCGCCTGCGCCCGGGG
 ACCCGGCCAGCAAGAGCCGGAGCTGCGGCGAGGTCGCCAGATCTACGGAGCCAAGGCTTCAGCCTGAG
 CGACGTGCCCCAGGCGGAGATCTCGGGTGAACCTGCGGATCTGTCCCCAGGGTACACCTGCTGCACC
 AGCGAGATGGAGGAGAACCCTGGCCAACCGAGCCATGCCGAGCTGGAGACCGCGCTCCGGGACAGCAGCC
 GCGTCTCGAGGCCATGCTTGCCACCCAGCTGCGCAGCTTCGATGACCACTTCCAGCACCTGCTGAACGA
 CTCGGAGCGGACGCTGCAGGCCACCTTCCCGGCCCTTCGGAGAGCTGTACACGCAGAACGCGAGGGCC
 TTCGGGACCTGTACTCAGAGCTGCGCCTGTACTACCGCGGTGCCAACCTGCACCTGGAGGAGACGCTGG
 CCGAGTCTGGGCCCGCTGCTCGAGCGCTCTTCAAGCAGCTGCACCCAGCTGCTGCTGCCTGATGA
 CTACCTGGACTGCCTGGCAAGCAGGCCGAGGCGCTGCGGCCCTTCGGGGAGGCCCGAGAGAGCTGCGC
 CTGCGGGCCACCCGTGCCTTCGTGGCTGCTCGCTCCTTTGTGCAGGGCCTGGGCGTGGCCAGCGAGCTGG
 TCCGAAAAGTGGCTCAGGTCCCCCTGGGCCCGGAGTGCTCGAGAGCTGTCATGAAGCTGGTCTACTGTGC
 TCACTGCCTGGGAGTCCCCGGCGCCAGGCCCTGCCCTGACTATTGCCAAATGTGCTCAAGGGTGCCTT
 GCCAACAGGCCGACCTGGACGCCGAGTGGAGGAACCTCCTGGACTCCATGGTGCATCACCGACAAGT
 TCTGGGTACATCGGGTGTGGAGAGTGTATCGGCAGCGTGCACACGTGGCTGGCGGAGGCCATCAACGC
 CCTCCAGGACAACAGGGACAGCTCACGGCCAAGGTATCCAGGGCTGCGGGAACCCCAAGTCAACCC
 CAGGGCCCTGGCCTGAGGAGAAGCGGCCCGGGCAAGCTGGCCCGGGGAGAGGCCACCTTCAGGCA
 CGCTGGAGAAGCTGGTCTCTGAAGCCAAGGCCAGCTCCGCGAGCTCCAGGACTTCCAGGACTTCCAGCTCC
 AGGGACACTGTGCAGTGAGAAGATGGCCCTGAGCACTGCCAGTATGACCGCTGCTGGAACGGGATGGCC
 AGAGGCCGGTACCTCCCCGAGGTGATGGGTGACGGCCTGGCCAACCAGATCAACAACCCCGAGGTGGAGG
 TGGACATACCAAGCCGGACATGACCATCCGGCAGCAGATCATGCAGCTGAAGATCATGACCAACCGGCT
 GCGCAGCGCTACAACGGCAACGACGTGGACTTCCAGGACGCCAGTACGACGGCAGCGGCTCGGGCAGC
 GGTGATGGCTGTCTGGATGACCTCTGCGGCCGGAAGGTGACGAGGAAGAGCTCCAGCTCCCGGACGCCCT
 TGACCCATGCCCTCCAGGCCTGTCAGAGCAGGAAGGACAGAAGACCTCGGCTGCCAGCTGCCCCAGCC
 CCCGACCTTCTCTGCCCTCCTCTTCTCTGGCCCTTACAGTAGCCAGGCCCGCGGTGGCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208602 representing NM_002081
 Red=Cloning site Green=Tags(s)

MELRARGWLLCAAALVACARGDPASKSRSCGEVRQIYGAKGFSLSVDPQAEISGEHLRIPCQGYTCCT
 SEMEENLANRSHAELETALRDSSRVLQAMLATQLRSFDDHFQHLLNDSERTLQATFPGAFGELYQNARA
 FRDLYSELRLYYRGANLHLEETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFGEAPREL
 LRATRAFVAARSFVQGLGVASDVVRKVAQVPLGPECSRAVMKLVYCAHCLGVPGARPCPDYCRNVLKGL
 ANQADLDAEWRNLLDSMVLITDKFWGTSGVESVIGSVHTWLAEAINALQDNRTL TAKVIQGCNPKVNP
 QGPGPEEKRRRGLAPRERPPSGTLEKLVSEAKAQLRDVQDFWISLPGTLCSEKMALSTASDDRCWNGMA
 RGRYLPEVMGDLANQINNPEVEVDITKPDMTIRQQIMQLKIMTNRLRSAYNGNDVDFQDASDDGSGSGS
 GDGCLDDLGRKVSRSKSSSRTPLTHALPGLSEQEGQKSAASCPQPPTFLLPLLLFLALTVARPRWR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_002081

ORF Size: 1674 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_002081.1](#), [NP_002072.1](#)

RefSeq Size: 3692 bp

RefSeq ORF: 1677 bp

Locus ID: 2817

UniProt ID: [P35052](#)

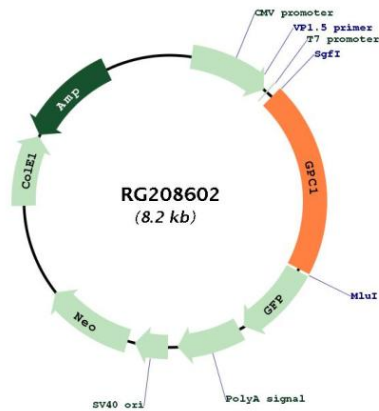
Cytogenetics: 2q37.3

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208602