

Product datasheet for **MG208834**

Gpc4 (BC006622) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpc4 (BC006622) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpc4
Synonyms:	9530073D23Rik; AF311610; AI385680; AI661372; K-glypican
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208834 representing BC006622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGCTTAGGCTTGCTCGCGCTCCTCTGCACCCCTGGCCGCGCTCAGCGCCTCGCTGCTGGCTGCGG
 AGCTCAAGTCGAAAAGTTGCTCGGAAGTGCACGCTCTCTACGTGTCCAAAGGCTTCAACAAGAATGATGC
 CCCCTCTATGAGATCAACGGTGACCATTTGAAGATCTGTCCCAAGGATTATACATGCTGTTCTCAAGAG
 ATGGAAGAGAAGTACAGCCTGCAAAGTAAAGATGATTTCAAACCGTGGTCAAGCAACAGTGCAACCATT
 TGCAAGCCATCTTGCATCCCGTTACAAGAAGTTGATGAATTCTTCAAAGAAGTCTTGAAAATGCAGA
 GAAATCCCTGAATGATATGTTTCGTGAAGACATATGGCCACTTATACATGCAAAAATTCAGAGCTATTTAAA
 GATCTCTCGTTGAGTTGAAGCGCTACTATGTGGCGGAAATGTGAACCTGGAAGAAATGTTAAATGACT
 TCTGGGCTCGCCTCTGGAGCGCATGTTTCGCCTGGTGAACCTCCAGTACCATTTTACAGATGAGTACTT
 GGATGTGTGAGCAAATATACAGAGCAGCTGAAGCCTTTTGGAGATGTCCCTCGGAAACTGAAGCTCCAG
 GTTACCCGCGCATTTGTTGCAGCCAGGACCTTCGCTCAAGGCTTAGCAGTTGCAAGGGATGTAGTAAGCA
 AAGTGTCCTGGTGAACCCACAGCTCAGTGCACCCATGCACTGCTGAAGATGATCTACTGCTCCCACTG
 CCGGGCCTGGTACTGTGAAGCCCTGTTACAACATTTGCTCAAACATCATGCGAGGCTGTTTGGCCAAC
 CAAGGAGACCTTGATTTTGAAGTGAACAATTTTATAGATGCTATGCTGATGGTGGCAGAGAGGCTGGAGG
 GTCCTTTCAACATTGAGTCCGTTATGGATCCCATCGATGTGAAGATTTCTGATGCTATCATGAATATGCA
 GGATAATAGTGTCAAGTGTCTCAGAAGGTTTTCCAAGGCTGTGGCCCTCCGAAGCCTCTCCAGCTGGA
 CGAATTTCTCGCTCCATCTCTGAAAGTGCCTTCAAGTCTGATTGATGCAAGGAGAACTGAAACAAGCTAA
 CAACACCGCAGCTGGCACTAGTTTGGACCGACTGGTACTGATGTCAAGGAGAACTGAAACAAGCTAA
 GAAGTTCTGGTCTCTCTCCAAGCACCGTTTGAATGATGAGAGGATGGCAGCAGGAAATGAAAATGAG
 GATGACTGCTGGAATGGCAAAGGCAAAGCAGGTACCTGTTTGCAGTGACAGGAAATGGATTGGCCAACC
 AGGGCAACAACCCAGAAGTCCAGGTTGACACCAGCAAGCCAGACATACTGATCCTTCGTCAGATCATGGC
 CCTTCGGGTTATGACCAGTAAAAATGAAGAATGCTTACAATGGAATGACGTGGACTTCTTTGACATCAGT
 GATGAGAGTAGTGAGAGGGAAGTGAAGCGGATGTGAATATCAGCAGTGCCTTCGGAGTTCGAGTACA
 ACGCCACTGACCATTCTGGGAAGAGTGCCAACGAGAAAGCTGACAGTGCCGGTGGTCCCATGCAGAGGC
 AAAGCCCTACCTCTCGCTGCTCTCTGCATCCTGTTTCTCGCTGTGCAGGGAGAGTGGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208834 representing BC006622
 Red=Cloning site Green=Tags(s)

MARLGLLALLCTLAALSASLLAELKSKSCSEVRRLLYVSKGFNKNDAPLYEINGDHLKICPQDYTCSSQE
 MEEKYSLQSKDDFKTVVSEQC�NHLQAI FASRYKFFDEFFKELLENAEKSLNDFVKTYGHL YMQNSEL FK
 DLFVELKRYVYVAGNVNLEEMLNDFWARLLERMFRLVNSQYHFTDEYLECVSKYTEQLKPFQDVPKRLKQ
 VTRAFVAARTFAQGLAVARDVVSXSVVNPTAQCTHALLKMIYCSHRGLVTVKPCYNYCSNIMRGLAN
 QGDLD FEWNFI DAML MVAERLEGP FNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQCGCPPKLPAG
 RISRSISESASF SARFRPYHPEQRPTTAAGTSLDRLVTDVKEK LKQAKKFWSLPSTVCNDERMAAGNENE
 DDCWNGKGSRYLFAVTGNLANQGNNPEVQVDT SKPDILILRQIMALRVMTSKMKNA YNGNDVDFDIS
 DESSGEGSGSGCEYQCPSEFEYNATDHSKGSANEKADSAGGAHAEAKPYLLAALCILFLAVQGEWR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	BC006622
ORF Size:	1673 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC006622 , AAH06622
RefSeq Size:	2344 bp
RefSeq ORF:	1673 bp
Locus ID:	14735
Cytogenetics:	X 28.33 cM
Gene Summary:	Cell surface proteoglycan that bears heparan sulfate. May be involved in the development of kidney tubules and of the central nervous system.[UniProtKB/Swiss-Prot Function]