

Product datasheet for **MR208834**

Gpc4 (NM_008150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpc4 (NM_008150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpc4
Synonyms:	9530073D23Rik; AF311610; AI385680; AI661372; K-glypican
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208834 representing NM_008150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGCTTAGGCTTGCTCGCGCTCCTCTGCACCCCTGGCCGCGCTCAGCGCCTCGCTGCTGGCTGCGG
 AGCTCAAGTCGAAAAGTTGCTCGGAAGTGCACGCTCTCTACGTGTCCAAAGGCTTCAACAAGAATGATGC
 CCCCTCTATGAGATCAACGGTACCATTGAAGATCTGTCCCAAGGATTATACATGCTGTTCTCAAGAG
 ATGGAAGAGAAGTACAGCCTGCAAAGTAAAGATGATTTCAAACCGTGGTCAAGCAACAGTGCAACCATT
 TGCAAGCCATCTTGCATCCCGTTACAAGAAGTTGATGAATTCTTCAAAGAAGTCTTGAAAATGCAGA
 GAAATCCCTGAATGATATGTTTCGTGAAGACATATGGCCACTTATACATGCAAAAATTCAGAGCTATTTAA
 GATCTCTCGTTGAGTTGAAGCGCTACTATGTGGCGGAAATGTGAACCTGGAAGAAATGTTAAATGACT
 TCTGGGCTCGCCTCTGGAGCGCATGTTTCGCCTGGTGAACCTCCAGTACCATTTTACAGATGAGTACTT
 GGATGTGTGAGCAAATATACAGAGCAGCTGAAGCCTTTTGGAGATGTCCCTCGGAAACTGAAGCTCCAG
 GTTACCCGCGCATTTGTTGCAGCCAGGACCTTCGCTCAAGGCTTAGCAGTTGCAAGGGATGTAGTAAGCA
 AAGTGTCCGTGGTGAACCCACAGCTCAGTGCACCCATGCACTGCTGAAGATGATCTACTGCTCCCACTG
 CCGGGGCTGGTACTGTGAAGCCCTGTTACAACATTTGCTCAAACATCATGCGAGGCTGTTTGGCCAAC
 CAAGGAGACCTTGATTTTGAAGTGAACAATTTTATAGATGCTATGCTGATGGTGGCAGAGAGGCTGGAGG
 GTCCTTCAACATTGAGTCCGTTATGGATCCCATCGATGTGAAGATTTCTGATGCTATCATGAATATGCA
 GGATAATAGTGTCAAGTGTCTCAGAAGGTTTTCCAAGGCTGTGGCCCTCCGAAGCCTCTCCAGCTGGA
 CGAATTTCTCGCTCCATCTCTGAAAGTGCCTTCAGTCTGATTGAGACCTTATCATCCAGAGCAACGCC
 CAACACCGCAGCTGGCACTAGTTTGGACCGACTGGTTACTGATGTCAAGGAGAAAAGTGAACAAGCTAA
 GAAGTTCTGGTCTCTCTCCAAGCACCGTTTGAATGATGAGAGGATGGCAGCAGGAAAATGAAAATGAG
 GATGACTGCTGGAATGGCAAAGGCAAAGCAGGTACCTGTTTGCAGTGACAGGAAATGGATTGGCCAACC
 AGGGCAACAACCCAGAAGTCCAGGTTGACACCAGCAAGCCAGACATACTGATCCTTCGTCAGATCATGGC
 CCTTCGGGTTATGACCAGTAAAAATGAAGAATGCTTACAATGGAATGACGTGGACTTCTTTGACATCAGT
 GATGAGAGTAGTGAGAGGGAAGTGAAGCGGATGTGAATATCAGCAGTGCCTTCGGAGTTCGAGTACA
 ACGCCACTGACCATTCTGGGAAGAGTGCCAACGAGAAAGCTGACAGTGCCGGTGGTCCCATGCAGAGGC
 AAAGCCCTACCTCTCGCTGCTCTCTGCATCCTGTTTCTCGCTGTGCAGGGAGAGTGAGAA

**ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR208834 representing NM_008150
 Red=Cloning site Green=Tags(s)

MARLGLLALLCTLAALSASLLAAELKSKSCSEVRRLYVSKGFNKNDAPLYEINGDHLKICPQDYTCSSQE
 MEEKYSLQSKDDFKTVVSEQCNHLQAI FASRYKKFDEFKELLENAEKSLNDFVKTYGHL YMQNSELFK
 DLFVELKRYVYVAGNVNLEEMLNDFWARLLERMFRLVNSQYHFTDEYLECVSKYTEQLKPFQDVPRKLLQ
 VTRAFVAARTFAQGLAVARDVSVKSVVNPTAQCTHALLKMIYCSHRGLVTVKPCYNYCSNIMRGLAN
 QGDLDFEWNFI DAMLMAERLEGPFI NESVMDPIDVKISDAIMNMQDNSVQVSQKVFQCGGPPKPLPAG
 RISRSISESAFSARFRPYHPEQRPTTAAGTSLDRLVTDVKEKLLKQAKKFWSSLPSTVCNDERMAAGNENE
 DDCWNGKGSRYLFAVTGNLANQGNPEVQVDTSKPDILILRQIMALRVMTSKMKNAYNGNDVDFDIS
 DESSGEGSGSGCEYQCPSEFEYNATDHSKGSANEKADSAGGAHAEAKPYLLAALCILFLAVQGEWR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008150

ORF Size: 1671 bp

OTI Disclaimer: 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.

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](#)

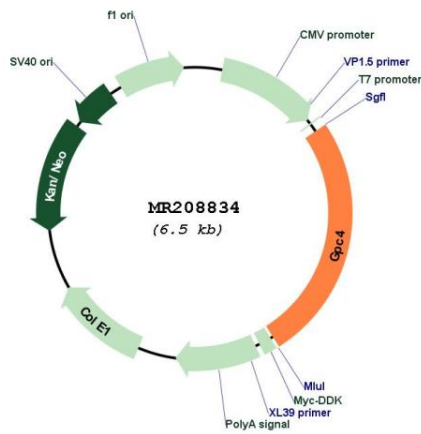
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_008150.2, NP_032176.2](#)
RefSeq Size: 2325 bp
RefSeq ORF: 1674 bp
Locus ID: 14735
UniProt ID: [P51655](#)
Cytogenetics: X 28.33 cM
MW: 63 kDa
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]

Product images:



Circular map for MR208834