

Product datasheet for **RR204246**

Gpc3 (NM_012774) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpc3 (NM_012774) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpc3
Synonyms:	OCI-5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204246 representing NM_012774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGGACCGTGCACCCGCTGCTTGTGGTGGCGATGCTGCTCGGCTTGGGCTGCCTGGGACAGG
 CGCAGCCCCCGCCCTCCAGACGCCACCTGTCCACAGGTCGGTCTTTCTTCCAGAGACTGCAGCCCGG
 ACTCAAATGGGTTCCAGAAACCCCTGTGCCAGGATCAGATTTGCAAGTATGTCTCCCAAGGCCCAACA
 TGCTGCTCAAGAAAGATGGAAGAAAAATACCAACTAACAGCGCGCCTGAACATGGAACAAGTCTCCAGT
 CTGCGAGTATGGAAGTCAAGTCTTAATTATTCAGAATGCTGCGGTTTTCCAAGAGGCCCTTTGAAATTGT
 TGTTCCGCATGCCAAGAACTACACCAATGCCATGTTCAAGAATACTACCCAGCCTGACTCCACAAGCT
 TTTGAGTTGTCGGTGAATTTTTACAGATGTCTCTCTACATCTTGGGTTCTGATATCAATGTGGATG
 ATATGGTCAATGAATTGTTGCAGCCTCTTTCCAGTCATCTATACCCAGATGATGAACCCAGGCCCTCCC
 CGAGTCAGTATTAGACATCAACGAGTGCCTCCGAGGAGCAAGACGCGACCTGAAAGTATTTGGCAGTTTC
 CCCAAGCTTATTATGACCAGGTTTCCAAGTCACTGCAAGTACTAGAATCTTCCTTCAGGCCCTGAACC
 TCGGAATTGAAGTAAACACCACCGACCACCTCAAGTTTGTAGTAAAGACTGTGGCCGATGCTCACCCG
 AATGTGGTACTGCTTACTGCCAGGACTGATGATGGTCAAACCTTGTGGTGGTTATTGCAATGTGGTC
 ATGCAAGGCTGTATGGCAGGTGTGGTAGAGATCGACAAGTACTGGAGAGAATACATTCTGTCTCTTGAAG
 AGCTCGTGAACGGCATGTACAGAATCTACGACATGGAGAATGTGCTGCTCGGACTCTTTCAACCATCCA
 TGATTCATCCAGTATGTGCAGAAGAACGGAGGCAAGCTGACCACCACTATTGGCAAGTTGTGCGCCAC
 TCCACGCAACGCCAATATAGATCTGCTTATTATCCTGAAGATCTGTTTATTGACAAGAAGTATTTAAAG
 TCGCCCGTGCAGCATGAAGAAACCTTATCCAGCCGAAGAAGGGAAGTATTGCAAGTTGAAGTCTTT
 CATCAGCTTCTATAGTGTCTTGGCAGGCTACATCTGCAGCCATAGCCCCGTGGCCGAAAACGACACCCTG
 TGCTGGAACGGACAAGAGCTTGTGGAGAGATACAGCCAGAAGGCGGCAAGGAATGGGATGAAGAATCAGT
 TTAACCTCCATGAGCTGAAAATGAAGGGCCCTGAGCCAGTGGTTAGCCAGATCATTGACAAACTGAAGCA
 CATTAAACCAGCTCCTGAGAACCATGTCTGTGCCAAGGGTAAAGTTGTGGATAAAAGCCTGGATGAGGAA
 GGACTTGAGAGTGGAGACTGTGGTGTGATGAGGATGAGTGCATCGGGAGCTCTGGTACGGCATGATGA
 AAGTGAAGAACCAACTGCGCTTCTTGCAGAACTGGCATATGATCTGGATGTGGACGATGCTCCAGGGAA
 CAAGCAACATGGAATCAGAAGGACAACGAGATCACCACTCTCACAGCGTGGGGAACATGCCATCCCCA
 CTGAAAATCCTCATCAGTGTGGCCATCTACGTGGCGTGTCTTTTTTCTGGTGCCTGACTGCTGCCATGCC
 CATGCCTGTGCTGCCCTGCAGCACCTTGTGGCCCTCTACA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204246 representing NM_012774
 Red=Cloning site Green=Tags(s)

MAGTVRTACLLVAMLLGLGCLGQAQPPPPDATCHQVRSFFQRLQPGLKWPETPVPGSDLQVCLKPGPT
 CCSRKMEEKYQLTARLNMEQLLQSASMEKFLIIQNAAVFQEA FEIVVRHAKNYTNAMFKNNYPSLTPQA
 FEFVGEFFTDVSLYILGSDINVDDMVNELFDSLFPVIYQMMNPGLPESVLDINECLRGARRDLKVFSGF
 PKLIMTQVSKSLQVTRIFLQALNLGIEVINTTDHLKFSKDCGRMLTRMWYCSYQGLMMVKPCGGYCNV
 MQGCMAGVVEIDKYWREYILSLEELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNGGKLTITIGKLC
 AHSQQRQYRSAYYPEDLFIDKKVLKVARVEHEETLSSRRRELIQKLKSFISFYALPGYICSHSPVAENDTL
 CWNGQELVERYSQKAARNGMKNQFNLHELKMGKPEPVVSQIIDKLNHINQLLRMTMSVPKGVVDDKSLDEE
 GLESGDCGDEDECEIGSSGDGMMKVNQLRFLAELAYLDVDDAPGNKQHGKQKDNIEITTSVGNMPS
 LKILISVAIYVACFFSWCTDLPCPLCCPAAPCGPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

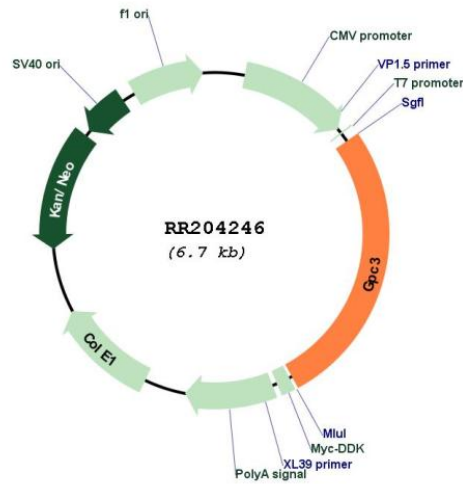
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012774

ORF Size: 1791 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:	<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:	NM_012774.1 , NP_036906.1
RefSeq Size:	2213 bp
RefSeq ORF:	1794 bp
Locus ID:	25236
UniProt ID:	P13265
Cytogenetics:	Xq36
MW:	67 kDa
Gene Summary:	heparan sulfate cell surface proteoglycan, may be involved in development of mesodermal tissues, may modulate Igf2 function [RGD, Feb 2006]