

Product datasheet for **RR212052**

Gp2 (NM_134418) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gp2 (NM_134418) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gp2
Synonyms:	gp80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212052 representing NM_134418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAGGATGGTGGCTTGTGACCTGCTGTGGCTGGCTGCAGCCTCCTGCCTTCTGACTGGTATTTCC
 CATCTACAACACATCAAGTTATGGAAACCCAGAAACACCTCCAATGTGGACTTGGACTGTGGAGCCCC
 CGGCTCATCAAGTGTGGCATCTGCTTTGACCCCTGCCAGAATCACACCGTCCTGAATGATCCCTCCAGA
 AGCACAGAGAACCGGTGTATCGGAGGAGTGTGATAGTACCTGAGGGGCTGGTACCGCTTTGTGGGTG
 ATGGGGGAGTGAAGATGCCAGAGACCTGTGTGAATGTGTACCGGTGCCACACCTATGCTCCCATGTGGCT
 GAGTGAATCACACCCATCCTTGGAGATGGCATTGTCAACCGCACAGCCTGTGCCAACTGGAATGAAAAT
 TGTGTTTCTGGAGTTCTGAGGTCCAGGTGAAGGCCTGTTGGGAGAATCAGGAGAATATCACGTGTACA
 AGTTACAGGGCACCCCTGAATGCAGTCTGAGATACTGTACAGACCCCTCCACCGCACGAAAAAGTGTGA
 GATTGCTTGTGCTCCTGAGGAGGAATGTGATTCCAAAATAACAGCTGGACCTGTGTCTGTAGGCAAGAC
 CTAATGTTTCTGACCCTCAGAGTTGACGCTCTTCTGGACTGTGGGGCTAATGAGATCAAGGTGAAGC
 TGGACAAGTGTGCTGGGAGGTCTGGGTTCAAGGAGGACATCATCACCTACCTGAATGACCGGAACTG
 CAGAGGTACCATGAAAGATGAGCCCAACAACCTGGGTGTCCACGACCAGCCCTGTTGTGGCTAATGACTGT
 GGGAAATCCTGGAGAACAATGGGACCCATGCCATCTATAGAAACACCCTCTCCTTGGCCACTGATTTCA
 TTATCAGGGACTTCTTGTCAACGTCAACTCCAGTGTGCTACCTCTGGACATGAATGTCAGTCTCCA
 AACTGCACTCCAGCCCATCGTAAGTCCCTGAATGTTGATGTGGTGGAGCAGGAGAGTTCACTGTTACG
 ATGGCACTCTTCAAGACCAAGCTACACACCCCTTGAAGGAAGCAAAGTGTGCTTCCAGTGGAGA
 ATACTCTACGTGGGCGTCTCTTGAATAGGGGTGATACCTCCAGGTTCAAAGTGTGCTGACCAACTG
 CTATGCCACCCCTCAGGAGACAGGAATGACATTGTGAAGTACTTCATCATCAGGAACAGATGCCCAAC
 CAACGTGATTCCACCATCAATGTGGAGGAGAATGGGGTGTCTCGAAAGCCGATTTTCACTGTCAGATGT
 TCATGTTTGTGGAAATTATGACCTAGTTTTCTGCATTGTGAGGTTTACCTGTGTGACTCCACTACTGA
 ACAGTGTCAACCATCTTGTCTACAAGTCGACTTCGCAGTAGTGAACCAGCCATCGACTTAACTCGGGTT
 CTGGATATAGGACCCATCACTAAGAAAAGTGTTCAGAACTCTGATACCTCCAACGGGACTCCCCGAAGTA
 CAGGGTCTGTGGCCTGGCCACGTTCTTCTGCCTGTCTTCTGGCCTGGCTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212052 representing NM_134418
 Red=Cloning site Green=Tags(s)

MKRMVACDLLWLAASCLLTLVFPSTTHQGYGNPRNTSNVDLDCGAPGSSSAGICFDPQNHVTLNDPSR
 STENTVSSECDSHLRGWYRFVGDGGVKMPETCVNVYRCHTYAPMWLSEHPILGDGIVNRTACANWNE
 CCFWSSEVQVKAACLGESGEYHVYKLGQTPESLRYCTDPSTAPKKCEIACRPEEECVFQNNSWTCVCRQD
 LNVSDPQSLQPLLDGANEIKVKLKDCLLGGGFKEDIIITYLNDNRNCRGTMKDEPNWVSTTSPVVANDC
 GNILENNGTHAIYRNTLSLATDFIIRDFLVNVNFQAYPLDMNVSLQALQPIVSSSLNVDVGGAGEFTVT
 MALFQDQSYTHPYEGSKVLLPVENILYGVLLNRGDTSRFKLLL TNCYATPSGDRNDIVKYFIIIRNRCPN
 QRDSTINVEENGVSSES RFSVQMFMFAGNYDLVFLHCEVYLCDSSTTEQCQPSCSTSRLRSSEPAIDLTRV
 LDIGPITKKSQVNPDTSNSTGPRSTGFLLAWPTFFLPVFLAWLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_134418

ORF Size: 1599 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_134418.3](#), [NP_599245.2](#)

RefSeq Size: 1919 bp

RefSeq ORF: 1602 bp

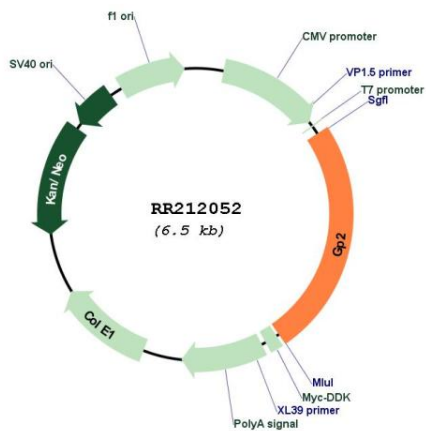
Locus ID: 171459

Cytogenetics: 1q35

MW: 59.2 kDa

Gene Summary: GPI-linked protein that is a major component of pancreatic zymogen granule membranes [RGD, Feb 2006]

Product images:



Circular map for RR212052