

Product datasheet for MR218058

Pgap3 (NM_001033537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgap3 (NM_001033537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgap3
Synonyms:	CAB2; D430035D22Rik; PerId1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218058 representing NM_001033537 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGCGGACGGCGCCGCTGCTGCTGCTAACCTTGGCAGTGGGACTCGCGGGGGTCCAGGGCG
ACCGCGAGCCCGTGTACCGGACTGCGTGTCCGATGCGAGGAACGGAAGTTCGGGAGACGCACTGAA
GCACTTCCGCTCCCGCCAGCCAATCTACATGAGCCTAGCTGGCTGGACCTGTCGGGACGACTGCAAGTAT
GAGTGTATGTGGTTCACCTGTTGGCCTCTACCTCAGGAGGGCCACAGAGTGCCTCAGTTCATGGCAAGT
GGCCCTTCTCCCGTTCCTGTTCAATCAAGAGCCAGCTTCTGCCGTGGCCTCACTCCTCAATGGCCTGGC
CAGCCTGGTGTGCTCTGCCGCTATCGCGCCTCTGTGCCAGCCTCTCCCCATGTACCATACCTGCATG
GCCTTCGTTGGGTGCTCTCAATGCTTGGTCTGGTCCACAGTCTTCCATACCAGGGACACTGACCTCA
CAGAGAAGATGGACTACTTCTGCGCTTCAGCTGTCATCCTGCATTCTGTTTACCTGTGCTGTGCAGGAC
CGTGGGACTACAGCACCCGCTGTGGCCAGTGCCTTCGGTGGCCTGCTGCTGCTGCTGACAGGACAC
ATATCCTACCTGAGCCTTGTCATTTGACTACGGCTACAACATGATGGCCAACGTGGCTATCGGCCTGG
TGAACCTGGCGTGGTGGTGGTCTGGTGCCTACGGAACCGCCAGCGCCTCCCTCACACCCGAGGTGTAT
GGTGGTGGTAGTGTGCTGCAGGGGCTGTCCCTGCTGGAATTGCTTGACTCCCGCCCTCTTCTGGGTC
CTGGAGCCCACGCCATCTGGCACATCAGCACCATCCCGTCCACACCCTTTTTTCAGGTTTCTGGAAG
ATGACAGCTTGTACCTACTGAAGGAATCTGGAGCCATGTTCAAGCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218058 representing NM_001033537
Red=Cloning site Green=Tags(s)

MAKRTAPLLLLLTLAVGLAGGSQGDREPVYRDCVLRCEERNCSGDALKHFRRSRQPIYMSLAGWTCRDDCKY
 ECMWFTVGLYLQEGHRVPQFHGKWPFSRFLFIQEPASAVASLLNGLASLVMLCRYRASVPASSPMYHTCM
 AFAWVSLNAWFSTVFHTRDLDLTKMDYFCASAVILHSVYLCCVVRTVGLQHPVSVASAFGALLLLLLLTGH
 ISYLSLVHFDYGYNMMAVAIGLVNLAWWLVWCLRNRQRLPHTRRCMVVVVLLQGLSLELLDFPPLFWV
 LDAHAIWHIISTIPVHTLFFRFLIEDDSL YLLKESGAMFKLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9021_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033537

ORF Size: 960 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_001033537.2](#), [NP_001028709.2](#)

RefSeq Size: 2424 bp

RefSeq ORF: 963 bp

Locus ID: 320655

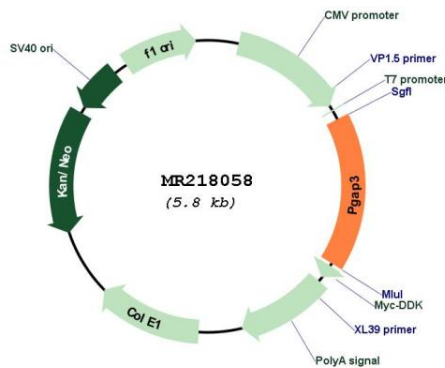
UniProt ID: [A2A559](#)

Cytogenetics: 11 D

MW: 37 kDa

Gene Summary: Involved in the lipid remodeling steps of GPI-anchor maturation. Lipid remodeling steps consist in the generation of 2 saturated fatty chains at the sn-2 position of GPI-anchors proteins. Required for phospholipase A2 activity that removes an acyl-chain at the sn-2 position of GPI-anchors during the remodeling of GPI (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218058