

Product datasheet for **MG223537**

Pgap1 (NM_001163314) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgap1 (NM_001163314) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgap1
Synonyms:	5033403E17Rik; 9030223K07Rik; A530084K22; D230012E17Rik; oto
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223537 representing NM_001163314
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCTCCACTCAGTCAACCTCTGGAATCTGGCCTTCTATGTCTTCATGGTGTCTGCGCACCTGG
 GGCTGTGGGATGTCTTCTCGGCTTCGAGGAAAACAAGTGCAGCATGAGCTACATGTTCCAGTACCCCGA
 GTACCAGAAAATAGAGCTCCCAAAGAACTGACAAAGCGTTATCCAGCATATGAGTTATATCTTTACGGA
 GAAGGATCGTACGCTGAAGAACAACAAAATTCTCCCTTTGACAGGAATTCCTGTTCTCTTTCTTCTGGTA
 ATGCTGGAAGCTATAAGCAAGTTCGATCTATCGGCTCTATTGCACTTAGGAAAGCAGAAGACATCGACTT
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 ACTTCTCTGGCTGTGGCGTGATTGCTTTTGGCTCCTCCACTTATACAGGGTCCCGTGTGTTTGTGATC
 ATTCTCTTGTGTTCCATGCGTTATGCAACTTTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223537 representing NM_001163314
 Red=Cloning site Green=Tags(s)

MFLHSVNLWNLAFYVFMVFLATLGLWDVFFGFEENKCSMSYMFYPEYQKIELPKKLTkryPAYELLYG
 EGSYAEEHKILPLTGIPVFLPGNAGSYQVRSIGSIALRKAEDIDFKYHFDFFSVNFNEELVALYGGSL
 QKQTKFVHECIKAILKL YKGQEFAPTSVAIIGHSMGGLVARALL TLKNFKQDLINLLVTQATPHVAVPMP
 LDRFITEFYMNVNYYWILNARHINLTTLSVAGGFRDYQVRSGLTFLPKLSHYTSALSVVSSAVPKTWVST
 DHLsIVWCKQLQLTTIRAFFDLIDADTKQITQKPKKLSVLNHHFIRHPAKQFEENPSIIIDL TGTSMWV
 PVKVSRSYVAYNESDKIYFAFLANHRKIYTHAYCQSTMLDTNSWIFGCINSTSMCRQGVDSLWKAELL
 PTIKSLTLRLQDYPSLSHIVVYVPSVHGSKFVVDCEFFKKEARSMQLPVTHLFSFGLSSRKVTLNTNGLY
 YNIELLNFGQIYQAFKVNVSCKTGSKEEITSIYKLHIPWSYEDSLTIAQVPSSTDISLKLHVAQPENDS
 HVALLKMYTSSDCQYEVTIKTSFPQILGQVRFHGGALPAYVSSILLAYGGQLYSLSTGYCLEYSTIL
 DKEAKPYKVPDFVIMIKFLLGYKWFKELWDAVLLPELDAIVLTSQSMCFPLVSLILFLFGTCTAYWSGLL
 SSTSVQLLSSLWLALKRPAELPKDIKVMSPDLPVLTVVFLIVSWTTCGALAILLSYLYYVFKVVHLQASL
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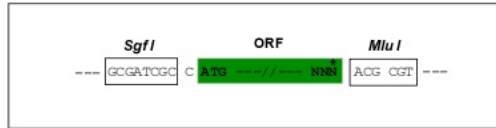
TRTRPLE - GFP Tag - V

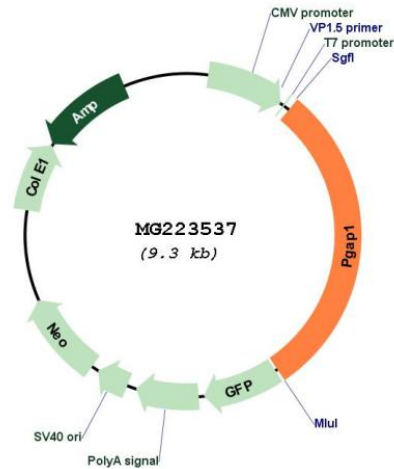
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001163314

ORF Size: 2766 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_001163314.2](#), [NP_001156786.1](#)

RefSeq Size: 2871 bp

RefSeq ORF: 2769 bp

Locus ID: 241062

UniProt ID: [Q3UUQ7](#)

Cytogenetics: 1 C1.2

Gene Summary:

Involved in inositol deacylation of GPI-anchored proteins. GPI inositol deacylation may important for efficient transport of GPI-anchored proteins from the endoplasmic reticulum to the Golgi (By similarity).[UniProtKB/Swiss-Prot Function]