

Product datasheet for **MG219938**

Pgs1 (NM_133757) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgs1 (NM_133757) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgs1
Synonyms:	2610019F11Rik; 4933424M23Rik; SAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219938 representing NM_133757
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCCGGCAGCGGGCCCGGTGTTCTGGAGGCGGTGCTGGCCCTGCTGCCTGGCAGGCCGGGC
 TGGCCGCGCTCCTGGGCCGCTCTCCGACCGTCTGGGCAGGAGCCGGGAGCGCCGCGCCGGAGGTCAAC
 ATGGCTGTTATTGGCTCCCTTGCTGTCCCAACCGTTCCTCAGGTCACCTCCCCACCTTGCTGCCTATGT
 CCCGAGGGTGTACACAGGTTCCAGTGGATCAGAAACCTGGTTCCAGAGTTTGGAGTCTCCAGCTCTCATG
 TCAGGGTACTGTCTCCCTGCAGAGTTCCTCGAGCTCATGAAGGGGCAGATAAAAAAGCCAAGAGGCG
 AGTTGTGATGGCATCCCTCTACTTGGGGACAGGACCTTTGGAACAGGAACTGGTGGATTGCTGGAAAGT
 TCTCTAGAAAAGTCACTCAAGCGAAGTTTCTTCCGACCTCAAGGTCTCCATTCTCTGGACTTCACCA
 GAGGCTCAAGAGGTAGGAAGAACTCTCGACTATGCTGCTCCACTCCTGCAGAGGTTCCAGAGCGCGT
 GCGCGTCTCCCTCTCCACACACCAACCTCCGAGGACTCCTCCGACTCCTTATCCCTGAGCGCTTCAAT
 GAGACCATCGGCCTCCAGCACATCAAGGTGTACCTCTTTGACAACAACGTCATCCTGAGTGGTGAACCC
 TGAGTGACTCATACTTCCCAACCGCCAGGACCGCTACGTGTTCTTGCAGGACTGCGCTGAGATTGCCGA
 CTTCTTACAGAGCTGGTGGACGCCGTGGGGATGTATCCTTGCAGTTGCAGGGCGACGACACAGTGGAG
 GTTGTGGATGGGATGGTGACCCCTTACAAAGGTGACCGGGCTGCGTACTGCAGAGCAGCGAACAAGCGGG
 TCATGGACGTATCCACTCGGCCAGGGCCCGGCAGCAGATGCTGCACGCACAGACCTTTCACAGTGATTC
 TCTGCTGAGCCAGGAAGAGGCTGCAGCTGCCGGGACCGGAGGCCAGCGCCGACACCTGGATTTACCCA
 CTGATCCAGATGAAGCCCTTTGAGATTGAGATTGATGAGATAGTACGGAGACGCTGCTGACGGAGGCTG
 AGCGCGGAGCTAAGGTCTTCTCACCACCTACTTCAACCTGACCCAGGCCTACATGGACCTGGTGGT
 AGGCCTCGAGCTGAGTATCAGATCCTTCTAGCCTCACCAGGAGTGAATGGCTTCTTTGGGGCTAAGGGC
 GTGGCGGCGCCATCCAGCCGCTATGTGCACATTGAGCGACAGTTCTACAGTGAAGTGTGTAGCCTGG
 GGCAGCAGGATCGGGTCCAGCTCCAGGAATACTGGCGCAGGGGTTGGACCTTTCATGCCAAAGCCCTCTG
 GCTGTACTGGCAGGGAGCAGCTGCCCTGCCCTCACGCTGATTGGCTCTCCTAATTTTGGGTACAGGTCA
 GTTCACCGGGACCTGGAAGCCAGATTGCCATCGTGACGGAGAGCCGGTCCCTGCAGCAGCAGCTTCATC
 AGGAGCAAGAGCAGCTCTACCTGCGGTCTGGTGTGGTACCTCCGCAACCTTTGAGCAGCCAGGGCGGCA
 GGTCAGCTGTGGTGAAGATGGTGACCCCGCTAATCAAGAACTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219938 representing NM_133757
 Red=Cloning site Green=Tags(s)
 MAAPAAGPVFWRRLGLLPGRPLAALLGRLSDRLGRSRERRRRSPWLLAPLLSPTVPQVTSPPCCLC
 PEGVHRFQWIRNLVPEFGVSSSHVRLSSPAEFFELMKGQIKIAKRRVVMASLYLGTGPLEQELVDCLES
 SLEKSLQAKFPSDLKVSILLDFTRGSRGRKNSRTMLLPLLQRFPERVRVSLFHTPNLRGLLRLLIPERFN
 ETIGLQHIKYYLFDNNVILSGANLSDSYFTNRQDRYVFLQDCAEIAADFFTELVDVAVGDVSLQLQGDDTVE
 VVDGMVHPYKGDRAAYCRAANKRVMVDVIHSARARQMLHAQTFHSDSLLSQEAAAAGDRRPAWDWIYP
 LIQMKPFEIQIDEIVTETLLTEAERGAQVFLTTGYFNLQAYMDLVLGTRAEYQILLASPEVNGFFGAKG
 VAGAIPAAYVHIERQFYSEVCSLGQQDRVQLQEYWRGWTFHAKGLWYLAGSSLPCLTLIGSPNFGYRS
 VHRDLEAQIAIVTESRSLQQQLHQEQELYLRSVVTSAFTEQPGRQVKLWVKMVTPLIKNFF

TRTRPLE - GFP Tag - V

Restriction Sites:

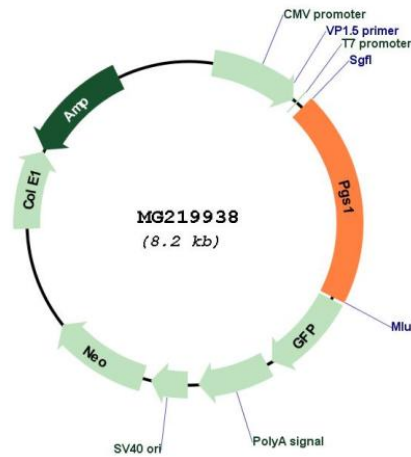
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_133757
ORF Size:	1659 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_133757.2 , NP_598518.1
RefSeq Size:	2298 bp
RefSeq ORF:	1662 bp
Locus ID:	74451
UniProt ID:	Q8BHF7
Cytogenetics:	11 E2
Gene Summary:	Functions in the biosynthesis of the anionic phospholipids phosphatidylglycerol and cardiolipin.[UniProtKB/Swiss-Prot Function]