

Product datasheet for **MG208656**

Pigb (NM_018889) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigb (NM_018889) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigb
Synonyms:	Pig-b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208656 representing NM_018889
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCCCAGGCCCGACTATAACCCGGCCTCCCGCAATCTCCACGGCAGCTCGGGAGAAATGAAGC
 TCGGAGGAGGAAGTCCAGGCAGTACGTGAGCGCGCAGGAGAAACGCTCTCCGCGCGTGGTCTTCTTGG
 AGAAAACACTTACCTGGTCTTGTACCATCGCTCTGCGAATACTTAAGTCTTCTAGTCAGACAAGC
 TTTGTTCTGATGAATACTGGCAGTCCCTCGAAGTTGCACACCGCATGGTTTTAGTTATGGTTATTTGA
 CCTGGGAATGGACGGAGCGATTGAGAGGCTACACTTACCCCTCATCTTCGCCAGTATTTACAAGTTCT
 GCATCTTCTGGGAAAGACAGTGTCAATTCTGATCTGGATTCCAGACTTGGCCAAGCTTCTGTCT
 GCTGTAGCGGATATAAGGCTCTACTCCCTCTGAAGCAGCTGGAAAACCAGGAAGTGGCACAATGGGTGT
 TCCTCTGCCAGCTGTCTCTGGTTCACATGGTACTGCTGCACACGGACCCTCACGAACCCATGGAGAC
 CTCCTCACTGCCCTCGCCCTTTCTACTATCCTCTGGAAGGCTCGAGGTCGGTGAACAGCGTCAAGTAC
 TCGCTCCTGGTGGCACTTGTGTGTGGTCCGCCCCACAGCTCTTATCCCATGGGTGCCGCTGCTCTTCA
 GACATTTCTACCAAGAACAGAGAAAGCTCCATCTGACTCTGCATCATTTTTTACCTGTAGGATTTATAAC
 CTTTCAAGTTTGTCTCTGATAATTGACCGTATCTTTTTGGCCAATGGACGCTGGTCCAATTAATTTCTTG
 AAATTTAACGTGCTGCAGAACCTAGGGACGTTTTATGGTCCCATCCATGGCACTGGTACCTCAGTCAAG
 GGTCCCAGTTGTCTGGGGACCACTTACCTTCTTATTACGGTTGCTTCTAGCCCCAAGGAGGCT
 CCACATACTGTGCTGACCGTGTGGACTGCTGGTATACAGCATGTTGGGCCACAAAGAATTCAGG
 TTTATCTATCCAGTTTACCATTCTGCATGGTCTTCTGTGGTTACTACTAGCCACCTGAAGACATGGA
 GGAAGGCAGCCCTGAGCTTCTGCTCTTGTCAAATGTGCCACTGGCATTCTACTGGCCTAGTTTCA
 GAGAGGCACCCTGGATGTCATGAATCACGTTACAGAAAGTCTGCCCCGAGGTCCTGACCCAGCTTCGGCC
 TCAGTATTCATAATGATGCCCTGCCACTCCACGCCTTACTACAGCCATGTTCACTGCCACTGTCCATGC
 GTTTTCTCCAGTGTCCCCAGACTTACTGAAAACTCAGTATCTTGTGAAGCAGATATGTTCTACTT
 AAACCCCTTAAGATGGTTACAACAAGAATTTACAGCAATGCGTCACTCCCCACTCACTTGGTCACTTC
 AATGTTCTGGAGAAGGAGATCAATACCTTCTCACCTCAGGGAACACGAGAGGGCCGCTACATTCTTCC
 ACCTCACTGGCCAGAGCGCCGAAGTCAATACAGCTACGAGCGAAGGTTACCCGGCAGGGT
 CAACACAGGAGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208656 representing NM_018889
 Red=Cloning site Green=Tags(s)

MESQAADYNPASRNHLHGSSGEMKLRKRKSRQYVSAQEKRSPPRGLLGENTYLVLFITIALRILNCFVQTS
 FVPDEYQSLVAHRMVF SYGLTWEWTERLRGYTYPLIFASIYKVLHLLGKDSVQFLIWIIPRLGQALLS
 AVADIRLYSLLKQLENQVAQWVFLCQLCSWFTWYCCTRTLNTMETSLTALALFYYPLEGRSRSVNSVKY
 SLLVALACVVRPTALIPWVPLFRHFYQEQKRLHLTLHHFLPVGFITFSLSLIIDRIFFGQWTLVQLNFL
 KFNVLQNLGTFYGSHPWHWYLSQGFPPVVLGTHLPFFIHGCFAPRRLHILLLTVLWTLVYSMLGHKEFR
 FIYPVLPFCMVFVCGYSLAHLKTRKAALSFLLLSNVPLAFYTGTVHQRTLDVMNHVQKVCPRGPD PASA
 SVFIMMPCHSTPYYSVHVCPLSMRFLQCPPDLTGKTQYLDEADMFYLNPLRWLQEQEFHSNASLPTHLVTF
 NVLEKEINTFLTSGNYERAATFFHHTHPERRTGSHIHVYERRLPGRVNTGGN

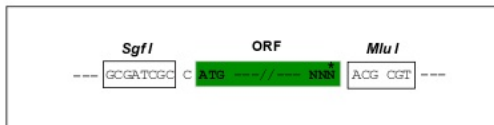
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

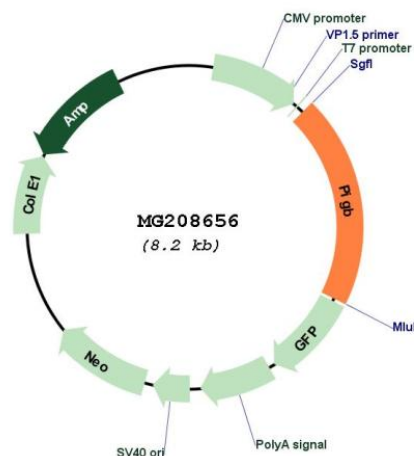
Cloning Scheme:

Cloning sites used for ORF Shutting:



						Kozac						
						Consensus						
EcoRI	BamHI	KpnI	RBS	SgfI	AscI							
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCGATCT												
HindIII	NheI	RsrII	MluI	NotI	XhoI	GFP Tag						
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- -- --												
			T R T R P L E			M	E	S	D	-	-	-
						PmeI	FseI					
--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT												
-	-	E	E	R	V	Stop						

Plasmid Map:



ACCN:	NM_018889
ORF Size:	1626 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_018889.1 , NP_061377.1
RefSeq Size:	2196 bp
RefSeq ORF:	1629 bp
Locus ID:	55981
UniProt ID:	Q9JJQ0
Cytogenetics:	9 D
Gene Summary:	Mannosyltransferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers the third alpha-1,2-mannose to Man2-GlcN-acyl-PI during GPI precursor assembly (By similarity).[UniProtKB/Swiss-Prot Function]