

Product datasheet for **RG208313**

PIGZ (NM_025163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGZ (NM_025163) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGZ
Synonyms:	GPI-MT-IV; PIG-Z; SMP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208313 representing NM_025163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGATCTGTGGATCCAGCGTAGCATCTGTAGCAGCTGGGACATCATTCCAGTTTTGGGCCCGGTGT
 GTTGGCAACAACCTGGATCTGAAGATGGCAGTCAGGGTGCCTTGGGGTGGTCTCAGCCTGCTCCGAGTGCT
 GTGGTGTCTCCTCCGCAGACGGGCTATGTGCACCCAGATGAGTTCTCCAGTCCCTGAGGTGATGGCA
 GAGGACATCCTGGGCGTTCAGGCCCGCGGCCCTGGGAGTTTTACCCAGCAGCTCCTGCCGCTCGGTGC
 TCTTCCCCTGCTGATCTCCGGTCCACCTTCTGGCTGCTCAGGCTCTGGGAGGAGCTGGGGCCGTGGCC
 TGGCCTGGTGAGCGGCTATGCGCTGCTGGTGGGCGCTCGACTCCTCCTACTGCCCTTCTCTTGTCTG
 GACGGGGCCGTACCACCTGGCCCCGCCGATGGGGCGGATCGCTGGAACGCCCTGGCCCTGCTGTCTG
 GTTCTACGTACCCTGGTCTTACACAAGGACCTTCTCAACACCATTGAGGGACTCCTTTCACGTG
 GCTGCTGGTGTGATCCTCCATGTAACGTGGGGCCCTACACGCAAGGAGCCGCGCCGGTCCACGG
 TGGCGCAGCTGGCTTCTGGAGGCAATTGTGGCTGCTGGCTTCTCAACCGGCCACCTTCTGGCCCTTG
 CTGTGGTCCCCCTACCTCTGGGGCACTCGTGGAGCCACAAACCTGGTTTGAAGTCTCTGACCCGGGA
 GGCCCTGGTGTGCTCCTGGGGCGACCCTCACAGCAGCGGTGTTGTGGCCACGGACAGCTGGTATTTT
 TCCAGCCCCGCTACATCCAGGAACCTTGTCTGACACCTGTAACCTCCTGCACTACAACCTGAATCCCC
 AAAACCTGGCGAGACATGGCACGACGCGCGGCTCACTCACCTGGCAGTCAACGGCTTCTGCTCTTCGG
 GGTGCTGCATGCCAGGCCCTGCAGGCTGCGTGGCAACAGCTGCAAGTCGGCCTCCAGGCCCTGCACAA
 ATGGGCTCCTGAGGGCACTGGGTGCCCGAGCCTGCTGTCCAGCCCCAGTCTATCTCCTTCTCCTCT
 ACTTCATGCCTTGCCCTGCTATCTGCCTTAGCCACCAGGAGGCTCGTTCCTGATTCCCTCCTGGT
 CCCCTGGTCTGCTTTGTAGTCCACAGACGACGCTGTGCCTTGGAAAGGCACTGTGGTCTCTTCAAC
 GCCCTCGGTGCCCTCCTCTCGGCTGCCTGCATCAGGGGGCCTGGTGCCTGGCCTGGAGTACCTGGAGC
 AGGTGGTCCATGCCCTGTGCTCCCAAGCACACCCACCCACTACACACTCCTTCTACTCACACTACAT
 GCCCCCCGGCACCTCTACACCTCCAGGCCCTGGGGCACCAAGTGGAGGTGGTGGACATAGGGGGGACT
 GAGGACTGGGCCCTGTGCCAAACCTGAAAAGCTTACCAGACAACCAGCCTGCCAAGTGGCTGGTGGGC
 CATGGCTCTGCCGCTCTTTGTGGTAACCCCTGGCACCACCAGGCGTCCCGTGGAGAAGTGCAGCTTCCC
 CTTCAAGAAATGAAACACTTTTATTTCCCATCTGACCCTGGAGGATCCACCAGCCCTGTCCTCCTGCTG
 AGTGGGGCTTGGAGGGACCACCTCAGTCTTACATTGTGGAGCTGGGGGAAGAAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208313 representing NM_025163
 Red=Cloning site Green=Tags(s)

MQICGSSVASVAAGTSFQVLGPVWCQQLDLKMAVRVLWGGLSLLRVLWCLLPQTGYVHPDEFFQSPEVMA
 EDILGVQAARPWEFYPPSSCRSVLFPLLISGSTFWLLRLWEELGPWPGLVSGYALLVGPRLLLTALSFA
 DGAVYHLAPPMGADRWNALALLSGSYVTLVFYTRTFSTNIEGLLFTWLLVLVSSHVTWGPTRKEPAPGPR
 WRSWLLGGIVAAGFFNRPTFLAFVAVPLYLWGTRGATNPGLKSLTREALVLLPGATLTAAVFVATDSWYF
 SSPATSRNLVLPVNFLHYNLNPQNLARHGTHARLTHLAVNGFLLFGVLHAQALQAAWQQLQVGLQASAQ
 MGLLRALGARSLSSPRSYLLLLYFMPALLSAFESHQEARFLIPLLVPLVLLCSPQTQPVPWKGTVVLFN
 ALGALLFGCLHQGGLVPGLEYLEQVHAPVLPSTPTHYLLFTHTYMPPRHLLHLPGLGAPVEVVDIGGT
 EDWALCQTLKSFTRQPACQVAGGPWL CRLFVVTPTGTRRAVEKCSFPFKNETLLFPHLTLEDPPALSSLL
 SGAWRDHLSLHIVELGEET

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_025163.2 , NP_079439.2
RefSeq Size:	2721 bp
RefSeq ORF:	1740 bp
Locus ID:	80235
UniProt ID:	Q86VD9
Cytogenetics:	3q29
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis
Gene Summary:	The glycosylphosphatidylinositol (GPI) anchor is a glycolipid found on many blood cells that serves to anchor proteins to the cell surface. This gene encodes a protein that is localized to the endoplasmic reticulum, and is involved in GPI anchor biosynthesis. As shown for the yeast homolog, which is a member of a family of dolichol-phosphate-mannose (Dol-P-Man)-dependent mannosyltransferases, this protein can also add a side-branching fourth mannose to GPI precursors during the assembly of GPI anchors. [provided by RefSeq, Jul 2008]