

Product datasheet for **RG209339**

PIGL (NM_004278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGL (NM_004278) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGL
Synonyms:	CHIME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209339 representing NM_004278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCAATGTGGCTCCTGTGTGTGGCGTTGGCGGTCTTGGCATGGGGCTTCCTCTGGGTTTGGGACT
CCTCAGAACGAATGAAGAGTCGGGAGCAGGGAGGACGGCTGGGAGCCGAAAGCCGGACCCCTGCTGGTCAT
AGCGCACCTGACGATGAAGCCATGTTTTTGGCTCCCACAGTCTAGGCTTGGCCCGCTAAGGCACTGG
GTGTACCTGCTTTGCTTCTCTGCAGAAATTAACAATCAAGGAGAGACTCGTAAGAAAGAACTTTTGC
AGAGCTGTGATGTTTTGGGGATTCCACTCTCCAGTGAATGATTATTGACAACAGGGATTCCCAGATGA
CCCAGGCATGCAGTGGGACACAGAGCACGTGGCCAGAGTCTCCTTCAGCACATAGAAGTGAATGGCATC
AATCTGGTGGTGACTTTTCGATGCAGGGGAGTAAGTGGCCACAGCAATCATTGCTCTGTATGCAGCTG
TGAGGGCCCTGCACTCAGAAGGGAAAGTTACCTAAAGGGTCTCTGTGCTCACGCTTCAGTCTGTGAATGT
GCTGCGCAAGTACATCTCCCTTCTGGATCTGCCCTTGTCTCTGCTTCATACGCAGGATGCTCCTTTCGTG
CTCAACAGCAAAGAAGTGGCACAGGCCAAGAAAGCCATGTCTGCCACCGCAGCCAGCTCCTCTGGTTCC
GCCGCTCTACATTATCTTCTCCCGGTACATGAGAATCAACTCACTGAGCTTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209339 representing NM_004278
 Red=Cloning site Green=Tags(s)

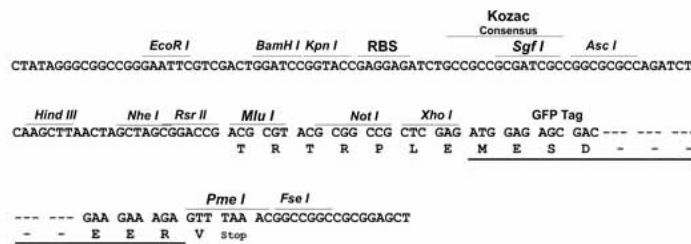
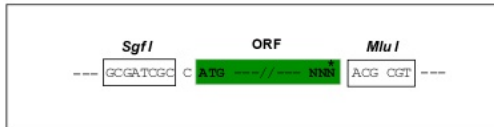
MEAMWLLCVLAVLAWGFLVWVWSSERMKSREQGGRLGAESRTLLVIAHPDDEAMFFAPTVLGLARLRHW
 VYLLCFSAGNYYNQGETRKKELLQSCDVLGIPLSSVMIIDNRDFDDPGMQWDEHVARVLLQHIEVNGI
 NLVVTFDAGGVSGHSNHIALYAAVRALHSEGLPKGC SVLTLQSVNVLKRYISLLDLPLSLLHTQDVLV
 LNSKEVAQAKKAMSCHRSQLLWFRRLYIIFSRMYRINLSFL

TRTRPLE - GFP Tag - V

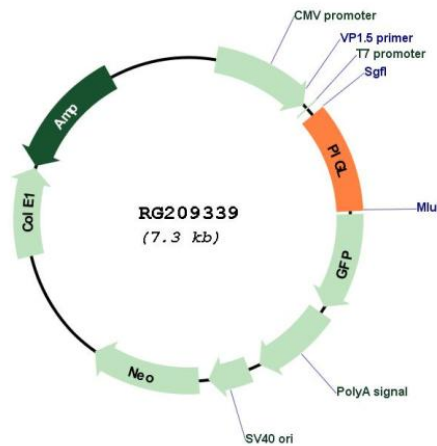
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_004278

ORF Size: 756 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_004278.4
RefSeq Size:	1163 bp
RefSeq ORF:	759 bp
Locus ID:	9487
UniProt ID:	Q9Y2B2
Cytogenetics:	17p11.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	This gene encodes an enzyme that catalyzes the second step of glycosylphosphatidylinositol (GPI) biosynthesis, which is the de-N-acetylation of N-acetylglucosaminylphosphatidylinositol (GlcNAc-PI). Study of a similar rat enzyme suggests that this protein localizes to the endoplasmic reticulum. [provided by RefSeq, Jul 2008]