

Product datasheet for RC209339

PIGL (NM_004278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGL (NM_004278) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIGL
Synonyms:	CHIME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209339 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCAATGTGGCTCCTGTGTGGCGTTGGCGTCTTGGCATGGGGCTTCCTCTGGGTTTGGGACT
CCTCAGAACGAATGAAGAGTCGGGAGCAGGGAGGACGGCTGGGAGCCGAAAGCCGGACCCCTGCTGGTCAT
AGCGCACCCCTGACGATGAAGCCATGTTTTTGGCTCCCACAGTCTAGGCTTGGCCCGCTAAGGCACTGG
GTGTACCTGCTTTGCTTCTCTGCAGGAAATTAACAATCAAGGAGAGACTCGTAAGAAAGAACTTTTGC
AGAGCTGTGATGTTTTGGGGATTCCACTCTCCAGTGAATGATTATTGACAACAGGGATTCCCAGATGA
CCCAGGCATGCAGTGGGACACAGAGCACGTGGCCAGAGTCTCCTTCAGCACATAGAAGTGAATGGCATC
AATCTGGTGGTGACTTTTCGATGCAGGGGAGTAAGTGGCCACAGCAATCATTGCTCTGTATGCAGCTG
TGAGGGCCCTGCACTCAGAAGGGAAGTTACCTAAAGGGTCTCTGTGCTCACGCTTCAGTCTGTGAATGT
GCTGCGCAAGTACATCTCCCTTCTGGATCTGCCCTTGTCTCTGCTTCATACGCAGGATGCTCCTCTCGTG
CTCAACAGCAAAGAAGTGGCACAGGCCAAGAAAGCCATGTCTGCCACCGCAGCCAGCTCCTCTGGTTCC
GCCGCTCTACATTATCTTCTCCCGGTACATGAGAATCAACTCACTGAGCTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209339 protein sequence
Red=Cloning site Green=Tags(s)

MEAMWLLCVLAVLAWGFLVWVWSSERMKSREQGGRLGAESRTLLVIAHPDDEAMFFAPTVLGLARLRHW
 VYLLCFSAGNYNQGETRKKELLQSCDVLGIPLSSVMIIDNRDFPDDPGMQWDEHVARVLLQHIEVNGI
 NLVVTFDAGGVSGHSNHIALYAAVRALHSEGKLPKGC SVLTLQSVNVLKRYISLLDLPLSLLHTQDVLV
 LNSKEVAQAKKAMSCHRSQLLWFRRLYIIFSRMYRINLSLFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6705_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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

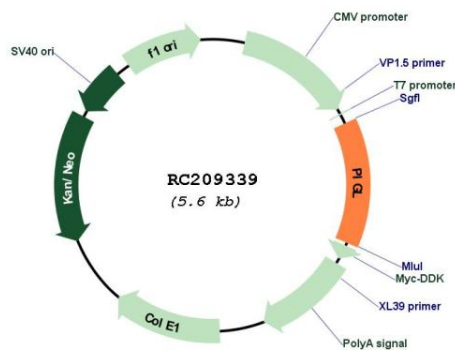
Protein Families: Transmembrane

Protein Pathways: Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways

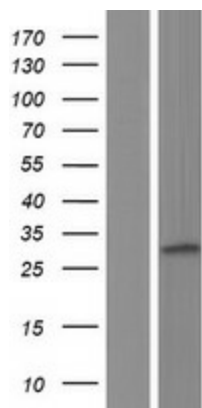
MW: 28.5 kDa

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]

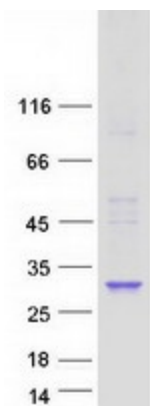
Product images:



Circular map for RC209339



Western blot validation of overexpression lysate (Cat# [LY418094]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209339 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIGL protein (Cat# [TP309339]). The protein was produced from HEK293T cells transfected with PIGL cDNA clone (Cat# RC209339) using MegaTran 2.0 (Cat# [TT210002]).