

Product datasheet for RC207733

PIGA (NM_020473) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIGA (NM_020473) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PIGA
Synonyms: GPI3; MCAHS2; PIG-A; PNH1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC207733 representing NM_020473
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGA**ACT**CACCGGGATCGATTTGCTTAGTGGTATAATACCTGA**ACT**CTGTCAGAAATATCCAGATTTAA
ATTT**CATA**AATTGGAGGAGAGGGACCAAAGAGAATC**ATTTT**GGAAGAAGTTCGGGAAAGATACCAGCTGCA
TGACAGGGTGC**GTCTTTT**GGGAGCTTTAGAACACAAGGATGTTAGAAATGTCTTAGTTCAAGGACATATT
TTTCTGAATACCTCCCTTACTGAAGCATTCTGCATGGCGATCGTGAAGCAGCCAGTTGTGGTTTACAGG
TTGTAAGTACCAGAGTTGGTGAATTCCTGAGGTGCTTCCAGAAAACCTTATTATTTTATGTGAGCCTTC
AGTAAATCTTTGTGTAAGGATTGAAAAGGCTATTTTCCA**ACT**GAAGTCAGGGACATTGCCAGCTCCA
GAAAACATCCATAACATAGTAAAGACTTTCTACACCTGGAGGAATGTTGCAGAAAGAACTGAAAAGGTAT
ATGACCGGGTATCAGTGGAA**CGTGTGTT**GCCAATGGACAAACGACTGGACAGACTTATTTCTCACTGCGG
CCCAGTAACAGGCTACATCTTTGCTTTGTTGGCAGTTTCA**ACT**TCCTCTCCTCATTTCCTTGGAGATGG
ATGACTCCAGATTCTATCATTGATGTTGCAATAGATGCCACTGGCCACGGGGTGCCTGGACTAATACT
ATTCTCACAGTAAAGAGGGGGTGAATAATGAGATATCTGAAACCAGG

ACGCGTACGCGGCCGCTCGAGCAGAA**ACT**CATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC207733 representing NM_020473
 Red=Cloning site Green=Tags(s)

MELTGIDLLSGIPELCQKYPDLNFIIGGEGPKRIILEEVREYQLHDRVRLGAL EHKDVRNVLVQGH I
 FLNTSLTEAFCMAIVEAASCGLQVVSTRVGGIPEVLPENLIILCEPSVKSLCEGLEKAIFQLKSGTLPAP
 ENIHNI VKTFYWRNVAERTEKVYDRVSVEAVLPMDKRLDRLISHCGPVTGYIFALLAVFNFLFLIFLRW
 MTPDSIIDVAIDATGPRGAWTNNYSHSKRGGENNEISETR

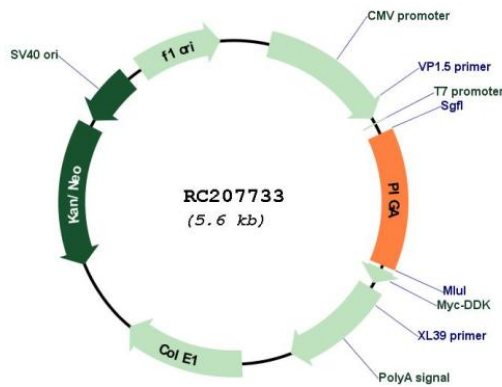
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020473
ORF Size: 750 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_020473.3 , NP_065206.3
RefSeq Size:	2867 bp
RefSeq ORF:	753 bp
Locus ID:	5277
UniProt ID:	P37287
Cytogenetics:	Xp22.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
MW:	28 kDa
Gene Summary:	This gene encodes a protein required for synthesis of N-acetylglucosaminyl phosphatidylinositol (GlcNAc-PI), the first intermediate in the biosynthetic pathway of GPI anchor. The GPI anchor is a glycolipid found on many blood cells and which serves to anchor proteins to the cell surface. Paroxysmal nocturnal hemoglobinuria, an acquired hematologic disorder, has been shown to result from mutations in this gene. Alternate splice variants have been characterized. A related pseudogene is located on chromosome 12. [provided by RefSeq, Jun 2010]