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Product datasheet for SC101219

PIGK (NM_005482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGK (NM_005482) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGK
Synonyms:	GPI8; NEDHCAS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC101219 sequence for NM_005482 edited (data generated by NextGen Sequencing)

ATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTGTTGCTCTTG
TCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCAGAACAATTCTTTAGAAGT
GGCCATACAAACAACTGGGCTGTTCTGGTGTGTACATCCCGATTCTGGTTTAATTATCGA
CATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAGGTATTCCTGACAGT
CACATTGTCCTAATGCTTGCAGATGATATGGCCTGTAATCCTAGAAATCCCAAACCAGCT
ACAGTGTTTAGTCACAAGAATATGGAACTAAATGTGTATGGAGATGATGTGGAAGTGGAT
TATAGAAGTTATGAGGTAACTGTGGAGAATTTTTTACGGGTATTAACTGGGAGGATCCCA
CCTAGTACTCCTCGGTCAAAACGTCTTCTTTCTGATGACAGAAGCAATATTCTAATTTAT
ATGACAGGGCATGGTGGAAATGGTTTCTTAAAATTTCAAGATTCTGAAGAAATTACCAAC
ATAGAACTCGCGGATGCTTTTGAACAAATGTGGCAGAAAAGACGCTACAATGAGCTACTG
TTTATTATTGATACTTGCCAAGGAGCATCCATGTATGAACGATTTTATTCTCCTAACATA
ATGGCTCTAGCTAGTAGTCAAGTGGGAGAAGATTCACTCTCGCATCAACCTGATCCTGCA
ATTGGAGTCCATCTTATGGATAGATACACATTTTATGTCTTGGAATTTTTGGAAGAAATT
AACCCAGCTAGCCAAACTAATATGAATGACCTTTTTCAGGTATGTCCCAAAAGTCTGTGT
GTGTCTACTCCTGGACATCGCACTGATCTTTTTCAGAGGGATCCTAAAAATGTACTGATA
ACTGATTTCTTTGGAAGTGTACGGAAAGTGGAAATTACAACAGAGACTATTAAATTGCAA
CAGGATTCAGAAATCATGGAAAGCAGCTATAAGGAAGACCAGATGGATGAGAAACTAATG
GAACCTCTGAAATATGCTGAACAACTTCCTGTAGCTCAGATAATACACCAGAAACCGAAG
CTGAAAGACTGGCATCCTCCTGGGGGCTTTATTCTGGGATTATGGGCACTTATTATCATG
GTTTTCTTCAAAACTTATGGAATTAAGCATATGAAGTTCATTTTTTAG

Clone variation with respect to NM_005482.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005482 unedited
GTCAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGTGAAGCCGGTA
AACATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTGTTGCTC
TTGTCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCAGAACAATTCTTTAGA
AGTGGCCATACAAACAACTGGGCTGTTCTGGTGTGTACATCCCGATTCTGGTTTAATTAT
CGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAGGTATTCCTGAC
AGTCACATTGTCCTAATGCTTGCAGATGATATGGCCTGTAATCCTAGAAATCCCAAACCA
GCTACAGTGTTTAGTCACAAGAATATGGAACTAAATGTGTATGGAGATGATGTGGAAGTG
GATTATAGAAGTTATGAGGTAACTGTGGAGAATTTTTTACGGGTATTAACTGGGAGGATC
CCACCTAGTACTCCTCGGTCAAAACGTCTTCTTTCTGATGACAGAAGCAATATTCTAATT
TATATGACAGGGCATGGTGGAAATGGTTTCTTAAAATTTCAAGATTCTGAAGAAATTACC
AACATAGAACTCGCGGATGCTTTTGAACAAATGTGGCAGAAAAGACGCTACAATGAGCTA
CTGTTTATTATTGATACTTGCCAAGGAGCATCCATGTATGAACGATTTTATTCTCCTAAC
ATAATGGCTCTAGCTAGTAGTCAAGTGGGAGAAGATTCACTCTCGCATCAACCTGATCCT
GNCATTGGAGTCCATCTTATGGATAGATACACATTNTATGTCTTGGAATTTTGGNAAGAA
ATAACCCAGCTAGCCAAACTAATATGAATGACCTTNNTCAGGTATGTCCCANAAGTCTTG
TGTGTGTCTACTCCTGGCATCGCACTGATCTTTTNCANAGGGATCCTAAAATGTACTGGA
TACTGATTCTTTTGGAAGGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005482 unedited
AATTTACTTGNACCGCGGCCCGCTTNCTAGNGATCGATTTTTTTTTTTTTTTTTTCATCT
TTGCTTTTAATTAAAGCTGCAGGATTCCATGAGTGACCAGCAGTAAAATATTAATACATT
AAAGAATAAACCAAAGGAAAACATTTGGTACAATGTAAGTGGTCCAACAATAGAAGACTG
TGAAATGAATTAAATATTCATAAAGTGAATACTATGCAGTCATTCACAATGTATTTTTGA
GAGGGAAAAGGTTGATAATACATTGTAAAATGAAAAAAGACATTACAAAATAGTACATTC
CATATGATCTCCATATTGGGAAAAAATATGTGCATAAGTCAAAAGATTGGGAGGATATAC
AAAAAATAATTAACCAAAGTTACTTCTGTTAGTGAGAATTTAATGTCTTCACAATTGTTT
CTTTTCCAAATGAAAAGGGGATAAGGGGAAATTACTATTTTCAAAAACAGTCAATGTATT
CTGATCTCTGTCTCATTCGCTTTTATAATACACAAAATACAAAACTGGAATATATTTAGT
GCCATTAAGCAGTTGCATTAACAATTATTTTTCTTTAAGTTATAAAATTAATAGTTGATT
CAAATTTAGTTTCCTTATACTTATTTCCAATTCATACAAGAGAAACACATTTTTAAAAAT
ATATAATGACATAAATTATTATCCAAGTTTGCAGTCCCTCATGCATTCTTCATTCATCAT
CAACTCTAAAAAATGAACTTCATATGCTTAATTCCATAAGTTTTGAAGAAAACCATGATA
ATAAGTGCCCATAATCCCAGAATAAAGCCCCCAGGAGGATGCCAGTCTTTCAGCTTCGGT
TTCTGGTGTATTATCTGAGCTACAGGAAGTTTGTCCACCATATTTCAGAGTTTCCCATAG
TTTCCTCACCCATCTGGGTCTTCCTTATAGCTGCTTTTCAG

Restriction Sites: NotI-NotI

ACCN: NM_005482

Insert Size: 2000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: A TrueClone.

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_005482.1, NP_005473.1
RefSeq Size:	1897 bp
RefSeq ORF:	1188 bp
Locus ID:	10026
UniProt ID:	Q92643
Cytogenetics:	1p31.1
Domains:	Peptidase_C13
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	This gene encodes a member of the cysteine protease family C13 that is involved in glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This protein is a member of the multisubunit enzyme, GPI transamidase and is thought to be its enzymatic component. GPI transamidase mediates GPI anchoring in the endoplasmic reticulum, by catalyzing the transfer of fully assembled GPI units to proteins. [provided by RefSeq, Jul 2008]