

Product datasheet for **RG204728**

PIGK (NM_005482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGK (NM_005482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGK
Synonyms:	GPI8; NEDHCAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204728 representing NM_005482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTCACCGACAGCCTCAGCCGGCTGCGACTGTCTTGGCAACTGTGTTGCTCTTGTCTTCGGCA
GCGTGGCCGCTAGTCATATCGAGGATCAAGCAGAACAATCTTTAGAAGTGGCCATACAAACAATGGGC
TGTTCTGGTGTGTACATCCCGATTCTGGTTAATTATCGACATGTTGCAAATACCCTTCTGTTTATAGA
AGTGTCAAGAGGCTAGGTATTCCTGACAGTCACATTGCCTAATGCTTGCAGATGATATGGCCTGTAATC
CTAGAAATCCCAAACCAGCTACAGTGTTTGTGACAGAATATGGAACAAATGTGTATGGAGATGATGT
GGAAGTGGATTATAGAAGTTATGAGGTAAGTGTGAGAATTTTTACGGGTATTAAGTGGGAGGATCCCA
CCTAGTACTCCTCGGTCAAACGCTCTTCTTCTGATGACAGAAGCAATATTCTAATTTATATGACAGGGC
ATGGTGGAAATGGTTTCTTAAATTTCAAGATTCTGAAGAAATACCAACATAGAAGTCCGGGATGCTTT
TGAACAAATGTGGCAGAAAAGACGCTACAATGAGCTACTGTTTATTATTGACTTGGCAAGGAGCATCC
ATGTATGAACGATTTTATTCTCCTAACATAATGGCTCTAGCTAGTAGTCAAGTGGGAGAAGTCACTCT
CGCATCAACCTGATCCTGCAATTGGAGTCCATCTTATGGATAGATACACATTTTATGTCTTGGAAATTTT
GGAAGAAATTAACCCAGCTAGCCAACTAATATGAATGACTTTTTCAGGTATGTCCAAAAGTCTGTGT
GTGTCTACTCCTGGACATCGCACTGATCTTTTTCAGAGGGATCCTAAAAATGACTGATAACTGATTTCT
TTGGAAGTGTACGGAAGTGGAAATTAACAACAGAGACTATTAATTTGCAACAGGATTCAGAAATCATGGA
AAGCAGCTATAAGGAAGACCAGATGGATGAGAACTAATGGAACCTCTGAAATATGCTGAACAACCTCCT
GTAGCTCAGATAATACCCAGAAACCGAAGCTGAAAGACTGGCATCCTCCTGGGGCTTTATTCTGGGAT
TATGGGCATTATTATCATGTTTTCTTCAAACCTTATGGAATTAAGCATATGAAGTTTCATTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204728 representing NM_005482
 Red=Cloning site Green=Tags(s)

MAVTDSLRAATVLATVLLL SFGSVAASHIEDQAEQFFRSGHNTNNAVLVCTSRFWFNRYRHVANTLSVYR
 SVKRLGIPDSHIVLMLADDMACNPRNPKPATVFSHKNMELNRYGDDVEVDYRSYEVTVENFLRVLTGRIP
 PSTPRSKRLLSDDRSNLIYMTGHGGNGFLKFQDSEEITNIELADAFEQMWQKRRYNELLFIIDTCQGAS
 MYERFYSPNIMALASSQVGEDSLSHQPDPAIGVHLMDRYTFYVLEFLEEINPASQTNMNDLFQVCPKSLC
 VSTPGHRTDLFQRDPKNVLIITDFGFSVRKVEITTEIKLQDSEIMESSYKEDQMDEKLMEPLKYAEQLP
 VAQIIHQPKLKDWHPPGGFILGLWALIIMVFFKTYGIKHMKIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005482

ORF Size: 1185 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_005482.2](#), [NP_005473.1](#)

RefSeq Size: 4626 bp

RefSeq ORF: 1188 bp

Locus ID: 10026

UniProt ID: [Q92643](#)

Cytogenetics: 1p31.1

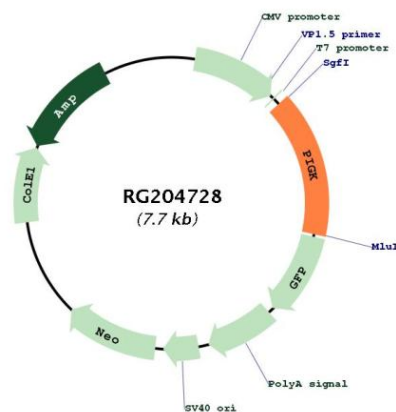
Domains: Peptidase_C13

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]

Product images:



Circular map for RG204728