

Product datasheet for **SC104528**

PIGX (AK000529) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGX (AK000529) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGX
Synonyms:	PIG-X
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK000529, the custom clone sequence may differ by one or more nucleotides

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AGCACTCGGTCCCAGCCGATAAATCTGGGGCAGCGCGGGTAGGAGCTGCGGGCGGCCAGGCCCTTCCT
GCGTCCGCACCTGGCCCCGCGCGCCCTCTCGGGCGTCCGGCTTCCGGCGTCTGGCGGCTCGGGTGGCG
GCGGTTTCGGGCGGCCGCTGGCTGCTCCTCGGGCGGCGACCGGGCTCACGCGGGGCCCGCGCGCCT
TCACCGCCGCGCGCTCTGACGCCGCATAAGGGCCATGTGTTCTGAAATTATTTGAGGCAAGAAGTTT
GAAAGATGGTTTTCCACAGAGACCTTTAATCAAAGTGAAGTTGGGAAAGCATTGAGGACTTGCACACC
TGCCGTCTCTTAATTAACAGGACATTCCTGCAGGACTTATGTGGATCCGTATGAGTTGGCTTCATTAC
GAGAGAGAAACATAACAGAGGCAGTGATGGTTTCAGAAAATTTGATATAGAGGCCCTAACTATTTGTC
CAAGGAGTCTGAAGTTCTCATTTATGCCAGACGAGATTCACAGTGCATTGACTGTTTTCAAGCCTTTTTG
CCTGTGCACTGCCGCTATCATCGGCCGCACAGTGAAGATGGAGAAGCCTCGATTGTGGTCAATAACCCAG
ATTTGTTGATGTTTTGTGACCAAGCTGGCTCCAGAAGAATGATCAGATCCGGTTTGATTCTTTGACAA
AACTATAGAGTTCCCGATTTTGAATGCTGGGCTCACTCAGAAGTGGCAGCCCCTTGCTTTGGAGAAT
GAGGATATCTGCCAATGGAACAAGATGAAGTATAAATCAGTATATAAGAATGTGATTCTACAAGTTCCAG
TGGGACTGACTGTACATACCTCTCTAGTATGTTCTGTGACTCTGCTCATTACAATCCTGTGCTCTAAAAA
AAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK000529 unedited ATACTTTACCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC GCGAATTCGGCACGAGGCTCGGTCCCAGCCGATAAATCTGGGGCAGCGCGCGGTAGGAGC TGCGGGCGGCCAGGCCCTTCTGCGTCCGCACCTGGCCCCGCGCCCTCTCGGGCGT CCGGCTTCCGGCGTCTTGGCGGCTCGGGTGGCGCGGTTGCGGGCGCCGCTGGCTGCTC CTCGGGGCGGCGACCCGGCTCACGCGCGGGCCCGCGCGCCTTACCCGCGCGCCTCT GACGCCGGCATAAGGGCCATGTGTTCTGAAATTATTTTGAGGCAAGAAGTTTTGAAAGAT GGTTCACAGAGACCTTTAATCAAAGTGAAGTTGGGGAAAGCATTGAGGACTTGACAC ACCTGCCGTCTCTTAATTAACAGGACATTCTGCAGGACTTTATGTGGATCCGTATGAG TTGGCTTCATTACGAGAGAGAAACATAACAGAGGCAGTGATGGTTTCAGAAAATTTGAT ATAGAGGCCCTAACTATTTGTCCAAGGAGTCTGAAGTTCTATTTATGCCAGACGAGAT TCACAGTGCATTGACTGTTTTCAAGCCTTTTTGCCTGTGCACTGCCGCTATCATCGGCCG CACAGTGAAGATGGAGAAGCCTCGATTGTGGTCAATAACCCAGATTTGTTGATGTTTTGT GACCAAGCTGGCTCCAGAAGAATGATCAGATTCCGGTTTGATTCTTTGACAAACTATAG AGTTCCCGATTTGAATGCTGGGCTCACTCAGAAGTGGCAGCCCTTGTGCTTTGGAGAA TGAGATATCTGCCATGGAACAAGA
Restriction Sites:	NotI-NotI
ACCN:	AK000529
Insert Size:	2650 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).
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:	AK000529.1 , BAA91233.1
RefSeq Size:	921 bp
RefSeq ORF:	921 bp
Locus ID:	54965
Cytogenetics:	3q29
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways

Gene Summary:

This gene encodes a type I transmembrane protein in the endoplasmic reticulum (ER). The protein is an essential component of glycosylphosphatidylinositol-mannosyltransferase I, which transfers the first of the four mannoses in the GPI-anchor precursors during GPI-anchor biosynthesis. Studies in rat indicate that the protein is translated from a non-AUG translation initiation site. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]