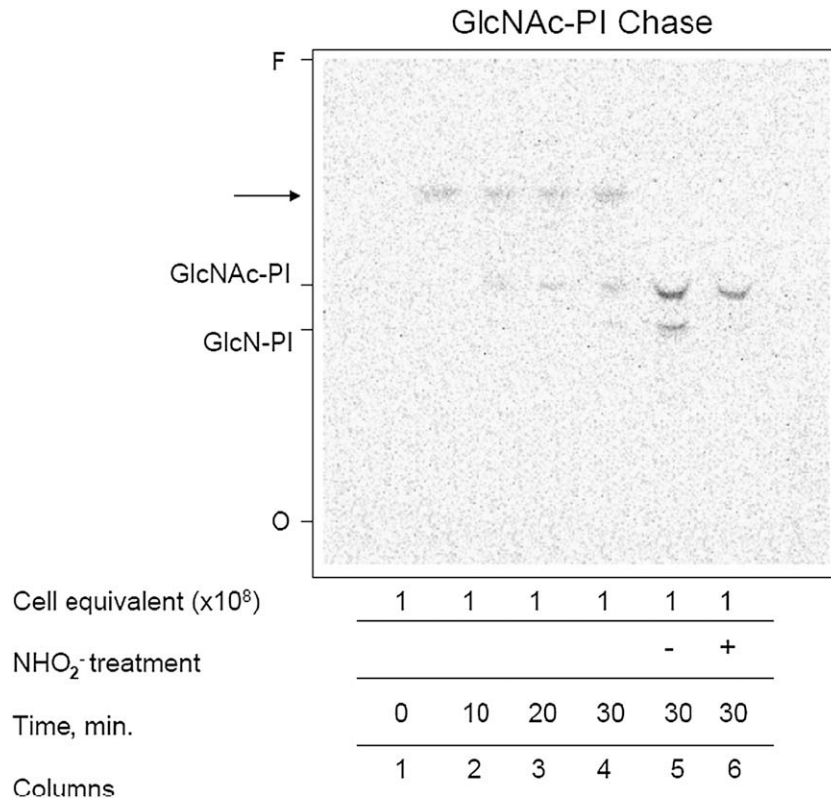


**Supplemental Table S1.** Polymerase chain reaction (PCR) primer sequences

A. Primer sequences for real-time PCR (human)		
Gene	Forward primer 5'-3'	Reverse primer 5'-3'
<i>PIGA</i>	GTTCGGGAGAGAGTACAGATA	GCTTGTGTTGTAAGCACCGAGC
<i>PIGC</i>	GCCTGAGTTTGAATGAAAGGA	CCCTCATCCATATAACCACCA
<i>PIGH</i>	GCCATTTACATGCAGAAGGT	GGCTTAAGAGTCACTCCCA
<i>PIGP</i>	GAGGAGACAGATGGTACTTTACC	ATTGTATGGATGGAGTCGAGTG
<i>PIGQ</i>	CTGTGGATCAGCTACATCCA	CCAGGTCATAGGAACAGGAG
<i>PIGL</i>	TACCTAAAGGGTGCTCTGTG	CCGGGAGAAGATAATGTAGAGG
<i>PIGM</i>	TCACCGCTTTCCTCTTATACC	TGGGAAGGATGTAAGTCACTG
<i>PIGN</i>	AGAAGTGAAGAAACCAAGCC	TCAACACTGATACAACAAGGTC
<i>PIGB</i>	CTTACCCTTCTTTATTATGCGCTG	GGTTAATGAGTATCCACAGAACAC
<i>PIGF</i>	ACTGATAGAGTTGGCATTGGA	CTAGAAAATTGTAGTGATCTGGAG
<i>PIGO</i>	GTATTCAGATTCTGGCCTGTG	CTGTCTTGAGATCATCCAG
<i>PIGK</i>	GCAGCTATAAGGAAGACCAGATG	GCCCCATAATCCCAGAATAAAGCC
<i>GPAA1</i>	CCGGGTGGTAAGCACACAG	GGGCAGCATAAAGGGTCCG
<i>PIGS</i>	GCGGCTACACACCTAGAGG	CTGGGAGTAAGGCAACGAGG
<i>PIGT</i>	AGCGGTACGTGAGTGGCTAT	GATACCAGGGTACGGTGTCCA
<i>DPM1</i>	ACAGAATTCTTCTAAGACCACG	CTCCATTTCTTTGTAGCGA
<i>DPM2</i>	TTAGCCTGATCATCTTACCT	ATGAACAGTCCCACAAACAG
<i>DPM3</i>	ATGACGAAATTAGCGCAGTGG	GCGGACACCAGCAAGTAGG
<i>SL15</i>	TCACTTCTAGTAAAGCTGCCC	TCTGGAGCATCAGGAATAAGG
<i>PIGU</i>	TCTGGCCGAGTTCATTTCCG	CCAAGTCCAACAGTGAAAGGC
<i>PIGV</i>	CATGTTTCAGGTTCTCACCAG	GCCTAGAATGTATCGTGTGAC
<i>PIGX</i>	CATAACAGAGGCAGTGATGG	AATGCCTGTGAATCTCGTC
<i>PIGW</i>	CACCATTGGAGTACGTGAG	AGGAGGATAAATGAAGCCCA
<i>PIGY</i>	AGAATGTTTCTGTCTTCTCCTACGTT	GCATCAATTATGCCTGAAGAGTTTAAT
<i>ACTB</i>	AAGATCAAGATCATTGCTCCTC	CAACTAAGTCATAGTCCGCC
B. Primer sequences for methylation-specific PCR		
<i>PIGL-U</i>	AAAATTTTAAGTTTTTGGAGTATGTTGGT	CTAACTCCAATAAAAACTTCACCA
<i>PIGL-M</i>	ATTTTAAGTTTTTCGGAGTATGTCGGC	TAACTCCGACTAAAAAACTTCACCG



**Supplementary Figure S1.** Pulse-chase experiment of GlcNAc-PI synthesis. In vitro assay, a very small amount of GlcNAc-PI was detected in Akata membrane fraction samples after 30 minute incubation with 2  $\mu\text{l}$  (2  $\mu\text{Ci}$ ) of UDP- $^3\text{H}$ GlcNAc. To investigate whether the product is formed at the earlier time, at intervals of 10 minutes an membrane fraction aliquot ( $1 \times 10^8$  cell equivalent,  $\sim 0.7$  mg protein measurements) was taken out from the reaction mixture with UDP- $^3\text{H}$ GlcNAc and subjected to lipid extraction, a chromatogram developing, and Phosphorimage analysis as described in the methods. A sample of wild type Ramos membrane fractions was a positive control in the experiment. GlcNAc-PI conversion to GlcN-PI was characterized by treating with  $\text{HNO}_2$ . O, origin; F, front. Species marked by arrows are unidentified. Lane 1-4 Akada cells; lane 5-6- wild type Ramos cells.