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GPI3      MG-----FNIAMLCDFYFQLGVE
PIGA      MACRGGAGNGHRASATLSRVSPGSLYTCRTRTHNICMVSDFFYPNMGGVE
TbGPI3    MR-----RHRVAVVSDFFYPGFGGVE
          *                               . . . . . :***** :****

GPI3      FHIYHLSQKLIDLGHSSVVIITHAYKDRVGRHLTNGLKVYHVPFFVIF--
PIGA      SHIYQLSQCLIERGHKVIIVTHAYGNRKGIRYLTSGLKVYYLPLKVMY--
TbGPI3    VHIYSLGQCLMRRGHKVIVITRAYGDTGCVRYLTNGMKVYYLPLMAVKLP
          *** *. * * : **.*:::*** : *:*:*.*:***::* : .

GPI3      -RETFPTVFSTFFPIRNILLREQIQIVHSHGSASTFAHEGILHANTMGL
PIGA      -NQSTATTLFHSPLRLRYIFVRERVTIHSHSSFSAMAHDALFHAKTMGL
TbGPI3    AGSVTLPTMYLTFATMRSIFIRERITVVHGHQNTSNLCHEALFHAGTLGL
          . * .*: :. :* *::***: :*. * . * .*: :*** *:*

GPI3      RTVFTDHSLYGFNNLTSIWVNKLLTFTLTNIDRVICVSNTCENMIVRTE
PIGA      QTVFTDHSLFGFADVSSVLTNKLTVSLCDTNHICVSYTSKENTVLRRA
TbGPI3    KTCFTDHSLFGFADVSSIHINKVCEWSLRNVDQVICVSNTSRENTVLRRA
          :* *****:* :*: : ** : * : :*:*** *:* :*:

GPI3      LSPDIISVIPNAVVSDFKPRDPTGG--TKRKQSRDKIVIVVIGRLFPNK
PIGA      LNPEIVSVIPNAVDPDFTDFDPDF-----RRHDSITIVVVSRLVYRK
TbGPI3    IDPQRVSVIPNATDCSFFTPDDMKYKSWASKVENEGTLIVVIGRLVYRK
          :.* :*****. *. * . : :*.***:*. *

GPI3      GSDLLTRIIPKVCSSHEDVEFIVAGDGPKFIDFQQMIESHRLQKRVQLLG
PIGA      GIDLDSGIIPELCQKYPDLNFIIGGEGPKRIILEEVRERYQLHDRVRLLG
TbGPI3    GSDLFVDVIPEICKRHPNIRWIVGGDGPRRSQFQQMIERHDLMDRVKMLG
          * ** : **::* . : :*:*.***: :*: * : * .***:***

GPI3      SVPHEKVRDVLQCGDIYLHASLTEAFGTILVEAASCNLLIVTQVGGIPE
PIGA      ALEHKDVRNVLVQGHIFLNTSLTEAFCAIVEAASCGLQVVSTRVGGIPE
TbGPI3    SLPHSGVRNVLIQGGIIFLNCSLTEAFICIALIEAASCGLLCVSTRVGGVPE
          : : * . **:* **.*:* :***** :*****.* *:*:***:*

GPI3      VLPNEMTVYAEQTSVSDLVQATNKAINIIRSK-ALDTSSFHDSVSKMYDW
PIGA      VLPENLIILCEP-SVKSLCEGLEKAIQKSGTLPAPENIHNVKTFYTW
TbGPI3    VLPNMLLLAEP-DPSSITLLEAIASVP---YISPWELHDNVRRFYRW
          *** : : . * . . : :** : . .:* : * *

GPI3      MDVAKRTVEIYTNISSTSSADDKDWKMKVANLYKRDGIWAKHLYLLCGIV
PIGA      RNVAERTEKVYDRVSVEAVLPMDK---RLDRLISHCGPVTGYIFALLAVF
TbGPI3    DWVAERTERVYDKIMCTKSPSLYE---RLMNYAS-VGCVYGVICWLLCIG
          **:* ** .:* . : . . * : * :

GPI3      EYMLFFLEWLWYPRDEIDLAPKW--PKKTVSNETKEARE-----T
PIGA      NFLFLIFLRWMTFDSIIDVAIDATGPRGAWTNNYSHSKRGGENNEISETR
TbGPI3    DWLMLTFLEFWFSELIDIAPDF--PLELYSRNREKLQVVGSPS-----
          :*: :* : * . **:* . * : : . . :

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S1 Fig. Sequence alignment of GPI3, PIGA and TbGPI3. The alignment was generated by the Tcoffee program, * = identical residues, : = conserved residues. GPI3, PIGA and TbGPI3 sequences are from Uniprot; GPI3 (P32363 GPI3_YEAST) PIGA (P37287 (PIGA_HUMAN)); TbGPI3 (Q585S5 (Q585S5_TRYB2)).