

Supplemental Data

GGT1_HUMAN	MKK <u>KL</u> VVLGLLAVVVLVIVGLCLWLPS <u>ASK</u> <u>E</u> PDNHVYTRAAVAADAK <u>QCSK</u> IGRDALRD
GGT1_RAT	MKNRFLVVLGVLAVVVLVFVVIIGLCIWLPTTSG-KPDHVYSRAAVATDAKRCSEIGRDMLQE
GGT1_MOUSE	MKNRFLVVLGVLAVVVLVFVVIIGLCIWLPTTSG-KPDHVYSRAAVATDAKRCSEIGRDILQE
GGT1_PIG	MKKRYLLLALAAVALVLLIILGLCLWLPSNSK-PHNHVYPRAAVAADALRCSEIGRDTLRD
GGT1_HUMAN	GGSAVDAAIAALLCVGLMNAHSMGIGGGLFLTIIYNSTTRKAEVINAREVAPRLAFATMFN
GGT1_RAT	GGSVVDAAIASLLCMGLINAHSMGIGGGLFFTIIYNSTTRKAEVINAREMAPRLANTSMFN
GGT1_MOUSE	GGSVVDAAIASLLCMGLMNAHSMGIGGGLFFTIIYNSTTGKVEVINAREVAPRLANTTFMN
GGT1_PIG	GGSAVDAAIAALLCVGLMNAHSMGIGGGLFLTIIYNSTTRKAEIINAREVAPRLASASMFN
GGT1_HUMAN	SSEQS <u>QK</u> GGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARQGFVPGKGLAAALEN
GGT1_RAT	NSKDSEEGGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARHGFPVPGKGLARALDK
GGT1_MOUSE	NSKDSEEGGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIQLARHGFPVPGKGLAIALDK
GGT1_PIG	SSEQSEEGGLSVAVPGEIRGYELAHQRHGRLPWARLFQPSIELASQGFVPGKGLAAALER
GGT1_HUMAN	KRTVIEQQ <u>PV</u> LCEVFCRDR <u>KV</u> LREGER <u>LTL</u> PQLADTYETLAIEGAQAFYNGSLTAQIVKD
GGT1_RAT	KRDIIEKTPALCEVFCRQGGKVLQEGETVTMPKLADTLQILAQEGARAFYNGSLTAQIVKD
GGT1_MOUSE	KRDVIEKTPALCEVFCRQGGKVLQEGETVTMPKLADTLQILAQEGAKAFYNGSLTAQIVKD
GGT1_PIG	SQDAIKRHPALCEVFCRNGNVLREGDLVTMPRLAKTYETLAVEGAQAFYNGSLTAQIVKD
GGT1_HUMAN	IQ <u>A</u> AGGIVTAEDLN ^Y RAELIEHPLN ^I SLGDV ^V LYMPSAPLSGPVLALILN ^I LKGYNFSR
GGT1_RAT	IQEAGGIMTVEDLN ^Y RAEVIIEHPMSIGLGDSTLYVPSAPLSGPVLILILN ^I LKGYNFSR
GGT1_MOUSE	IQEAGGIMTVEDLN ^Y RAELIEHPMSIGLGDATLYVPSAPLSGPVLILILN ^I LKGYNFSR
GGT1_PIG	IQEAGGIVTAEDLN ^Y RAELIEQPLRISLGDAQLYAPNAPLSGPVLALILN ^I LKGYNFSR
GGT1_HUMAN	<u>E</u> SVE <u>S</u> PEQKGLTYHRIVEAFRFAYAKRTLLGDPKFVDVTEVVRNM <u>T</u> SEFFAAQLRA <u>Q</u> ISD
GGT1_RAT	KSVATPEQKALTYHRIVEAFRFAYAKRTMLGDPKFVDVSVQVIRNMSSEFYATQLRARITD
GGT1_MOUSE	KSVATPEQKALTYHRIVEAFRFAYAKRTMLGDPKFVDVSVQVIRNMSSEFYATQLRARITD
GGT1_PIG	ASVETPEQKGLTYHRIVEAFRFAYAKRTLLGDPKFVNVTEVVRNMSSEFFADQLRARISD
	↓
GGT1_HUMAN	<u>D</u> TTHPI <u>S</u> Y <u>YK</u> PEFYTPDDGGTAHLSV <u>V</u> AEDGS ^A VSATSTINLYFGSKVRS <u>P</u> VSGILFN <u>N</u> E
GGT1_RAT	ETTHPTAYYEPEFYLPDDGGTAHLSV <u>V</u> SE ^D GS ^A VAAATSTINLYFGSKVLSRVSGILFNDE
GGT1_MOUSE	ETTHPAAYYEPEFYLQDDGGTAHLSAVSE ^D GS ^A VAAATSTINLYFGSKVLSRVSGILFNDE
GGT1_PIG	TTTHPDSYYEPEFYTPDDAGTAHLSV <u>V</u> SDDGS ^A VSATSTINLYFGSKVRSRISGILFNDE
GGT1_HUMAN	MDDFSSP <u>S</u> IT <u>N</u> EFGVPPSPANFIQPGKQPLSSMCPT <u>I</u> MVGQDGQVRMVVGA <u>AG</u> GTQIT <u>T</u> A
GGT1_RAT	MDDFSSPNFTNQFGVAPSPANFIKPGKQPLSSMCPSIIVDKDGKVRMVVGASGGTQITTS
GGT1_MOUSE	MDDFSSPNFINQFRVAPSPANFIKPGKQPLSSMCPSIILDKDGQVRMVVGASGGTQITTS
GGT1_PIG	MDDFSSPNITNQFGVRPSPANFITPGKQPLSSMCPVIVGEDGQVRMVVGASGGTQITTS
GGT1_HUMAN	TALAI <u>I</u> Y <u>N</u> LWFGYDVKRAVEE <u>P</u> RLHNQLLPN <u>V</u> TTVERNIDQAVTAAL <u>E</u> TRHHHTQI <u>A</u> STF
GGT1_RAT	VALAIINSLWFGYDVKRAVEE <u>P</u> RLHNQLLPN <u>T</u> TTTVEKNIDQVVTAGLKTRHHHTVTPDF
GGT1_MOUSE	VALAIINSLWFGYDVKRAVEE <u>P</u> RLHNQLLPN <u>T</u> TTTVEKDIDQVVTAGLKIRHHHTVTPTF
GGT1_PIG	TALAIIHSLWFGYDVKRAVEE <u>P</u> RLHNQLLPN <u>T</u> TTTLEKIDQAVAAALKTRHHYIQDASTF
GGT1_HUMAN	I <u>A</u> VVQAIVRT <u>A</u> GGWAAASDSRKGGE <u>P</u> AGY
GGT1_RAT	I <u>A</u> VVQAVVRT <u>S</u> GGWAAASDSRKGGE <u>P</u> AGY
GGT1_MOUSE	I <u>A</u> VVQAVVRASGGWAAASDSRKGGE <u>P</u> AGY
GGT1_PIG	I <u>G</u> VVQAIVRT <u>P</u> SGWAAASDSRKGGE <u>P</u> AGY

SUPPLEMENTAL FIGURE. Alignment of the GGT sequences from human, pig, rat and mouse. The amino acids in the human sequence that are highlighted in red are the same in rat, mouse and pig but different in human. Amino acids in the human sequence that differ from all others are underlined. The black arrow identifies the cleavage site at which the small subunit is released from the large subunit.