

CaEnol	1	-----
AgTGase	1	-----
MmTGase	1	-----
GgTGase	1	-----
AmTGase	1	-----
HsTGase	1	MMDGPRSDVGRGGNPLQQPTTPSPEPEPDGRSRRGGRSFWARCCGCCSCRNAADD
HsFactorXII	1	-----
CaEnol	1	-----
AgTGase	1	MSTTSTNYRIWPARK
MmTGase	1	-----
GgTGase	1	-----
AmTGase	8	-----RYRIFNDRRFRP-----
HsTGase	61	WGPEPSDSRGRGSSSGTRR--PGSRGSDSRRPVSRGSGGVNAAGDGTIREGMLV-VNGVD
HsFactorXII	1	--SE---TSRTAFGGRRAVPPNNNSNAEEDDLPTVELQGV--VPRGVNLQEFLN-VTSVH
CaEnol	1	-----
AgTGase	30	SINLCFDENGKTFHTSHYEA MTKPRPTKRPROLIVRRGAPFEVRLLT-NRRFDP-T
MmTGase	9	RCDLEIQANGRDHHTADL-CQEKLIVRRGQRFRRLTLYFEGRGYQA-S
GgTGase	18	TCDLQCERNGREHRTTEEM-GSQQLVVRRGQPFITLNEACRGYEE-G
AmTGase	38	HVDPCIGENCAKERTSRYEAMS RNG--DGSRLVVRGQEFYHLAL-SRDYDP-D
HsTGase	117	LLSRSRDQNREHHTDEY-EYDELIVRRGQPFHMLLL-SRTYES-S
HsFactorXII	52	LFKERWDTNKVDHHTDKY-ENNKLIVRRGQSFYVQIDE-SRPYDP-R
CaEnol	27	TDKGLFRSIVPSG-A-----STGVHEAL-ELR-----DGDKSKVLGKVVLK-
AgTGase	84	VDTMVLVVSIVSYGSEKPCFGNGTETYVLVSVATDGTAPAE PDELAEDWRAVVVDSKDKE
MmTGase	54	VDSLTFGAVT-G-PDPSEEAGTKARF-SLSDN-V-EEGSWSASVLDQODN-
GgTGase	63	VDKLAFDVET-G-PCPVETSGTRSDF-TLTDC-P-EEGTWSAVLOODGA-
AmTGase	89	TDGISLWFTV-DGAERPOYGHGTLVAT-PVLYP-GQRSEASWQAYIDSLHSN-
HsTGase	161	-DRITLLELLI-G-NNPEVGKGTHVII-PVG-K-GG-SGGWKAQOVVKASGQ-
HsFactorXII	96	RDLFRVEYVI-G-RYPQENKGTYIPV-PIVSE-LQ-SCKWGA KIVMREDR
CaEnol	66	-----AVANVN-----DIIAPALIKAKIDVV
AgTGase	144	KGKVELTLOIMIPSYTPVWRWSIQFHRLDTTDAKS MTEIKEPLFVLFNPWCKNDAVYME
MmTGase	99	-----VLSLQLCTPANAPIGLYRLSLEASTGYQ---GSSFVLGHFILLYNAWCPADDVYLD
GgTGase	108	-----TLCVSLCSPSIARVGRYRLTLEASTGYQ---GSSFVLGD FVLLFNFNAWHPEDAVYLK
AmTGase	138	-----FLRLKIVPA PDAAIGKWRMDIDTKNKSTDGA VSMTMKHPFYLVPNPWCKEDAVYME
HsTGase	204	-----NLNLRVHTSPN AIIGKFQFTV RQS DAGEFQLPFDPRNEIVILFNPWC PEDIVYVD
HsFactorXII	141	-----SVRLSIQSSPKC IVGKFRMYV AVWTPYGV LRTSRNPETDT YILFNPWC EDDAVYLD
CaEnol	87	DOAKIDDEFLLSLDCTPNKSKLG-----ANAILGVSL-----AAANAAA
AgTGase	204	DEAWRSEYI LDDSTA TCKPASKGLHMSSWFLQ FEANVLD SALYIVEQV-----ANVKA
MmTGase	152	SEEERREYVLT TQOQFIYQGSV KFIKS VFWNFQ QDG ILDTCL MLLDMN PKFL KNRSRDC
GgTGase	161	EEDERQEVYV MAEDGLI WRGSY NRP RTV WKYS OFER DILD CAL HLMIEV-----GKRV
AmTGase	194	GEDERQEVYV MAEDGLI WRGSY NRP RTV WKYS OFER DILD CAL HLMIEV-----GKRV
HsTGase	260	HEDW RQEYV LNES GRI YY GTE AQI GERT WNY QGF DHG VLD A CLY ILDR-----RGMPY
HsFactorXII	197	NEKE ERE EYV LND IGV IFY GEV NDI KTR RSW SYQ FED GIL DTC LYV MDR-----AQMDL
CaEnol	125	AAQGIPLYK--HIANISNAKK-GKFVL PV FON VLNGG SHA-----GG ALA FQ EFM-----
AgTGase	258	PISGN PVL VIR LTS ALSG NTAD -GTG V LQ GN WS NV YEG GTA PT S WT G SA K I LQ EF Y DTG -E
MmTGase	212	SRRSS PI TYV GRV VSD MV CND -DQ G V L L G R W D N Y G D G I S P M A W I G S V D I L R W K E H G C Q
GgTGase	221	SRRND P V Y I C R V V S AM V NC CN D E D H G V L L G R W D N Y E D G M S P M A W I G S V D I L K R W R R L G C Q
AmTGase	248	SARH D P V T I S R V L S A A V N S P D -DNG A L M G N W S N D F G G G T P T K W L G S Q K I L Q Q Y K T R -K
HsTGase	313	GGRG D P V N V S R V I S A M V N S L D -DNG V L I G N W S G D V S R G T N P S A W V G S V E I I L S Y L R T G -Y
HsFactorXII	250	SGRG N P T K V S R V G S A M V N A K D -D E G V L V G S W D N I Y A Y G V P P S A W T G S V D I L E Y R S -N
CaEnol	173	-----IAPTGV S TF SE ALR IG SE V Y H NL K S LT KK Y G Q S A G N V G D E G G V A P D I K T P K
AgTGase	316	RVKY G Q C W V V A A V A C T V L R C L G I P T R V T N Y N S A H D Q N S N L I
MmTGase	271	QV K Y G Q C W V F A A V A C T V L R C L G I P T R V T N Y N S A H D Q N S N L I
GgTGase	281	PV K Y G Q C W V F A A V A C T V M R C L G V P S R V T N Y N S A H D Q N S N L I
AmTGase	306	PV K Y G Q C W V F A A V A C T V M R C L G V P S R V T N Y N S A H D Q N S N L I
HsTGase	371	SV P Y G Q C W V F A G V T T V L R C L G I P T R V T N E N S A H D T D T S L I
HsFactorXII	308	PV Y G Q C W V F A G V F N T F L R C L G I P A R I V T N Y F S A H D N D A N L Q

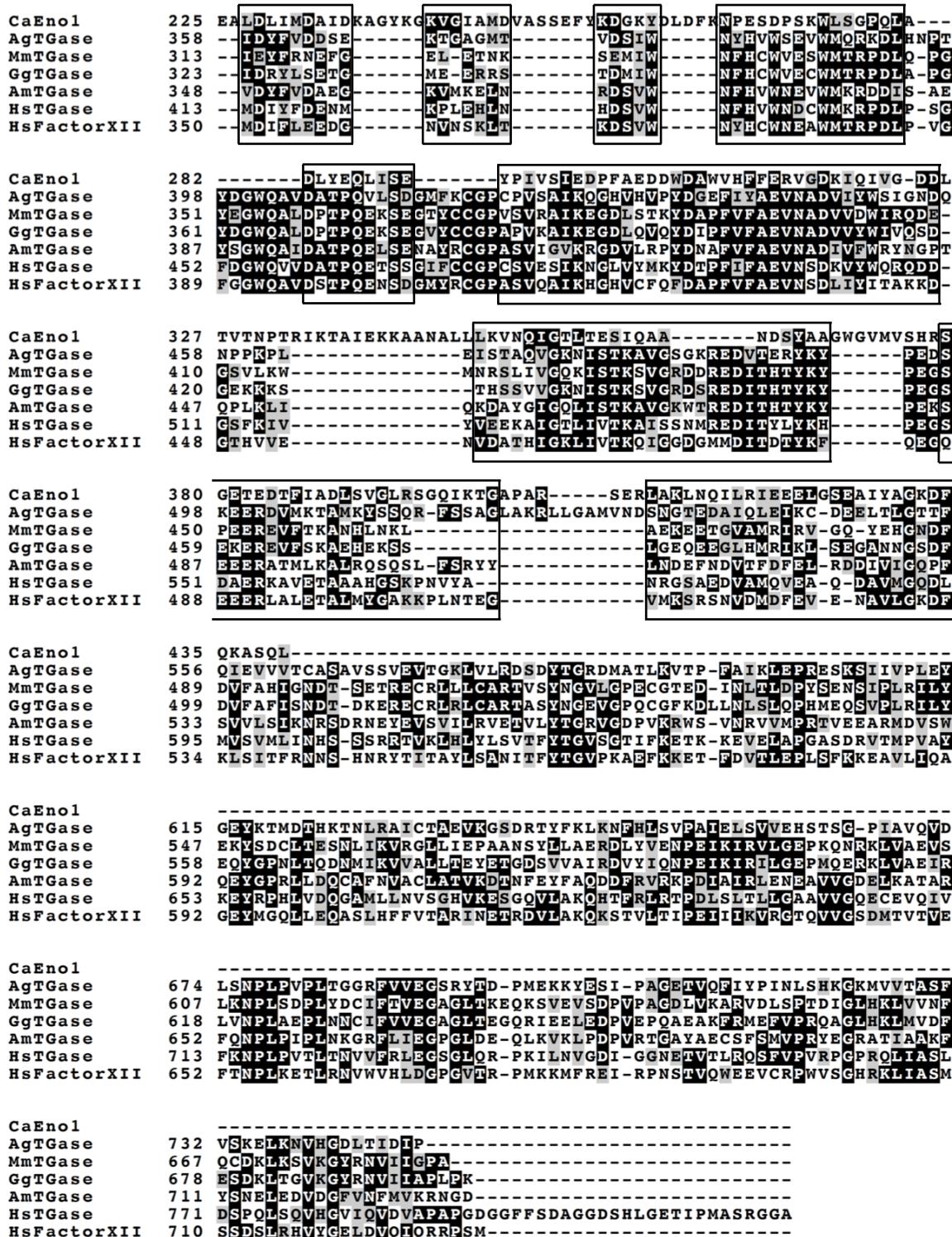


Figure S13. Clustal Omega alignment of *C. albicans* enolase 1 with TGases from *Anopheles gambiae* (Ag), *Mus musculus* (Mm), *Gallus gallus* (Gg), *Apis mellifera* (Am) and *Homo sapiens* (Hs).