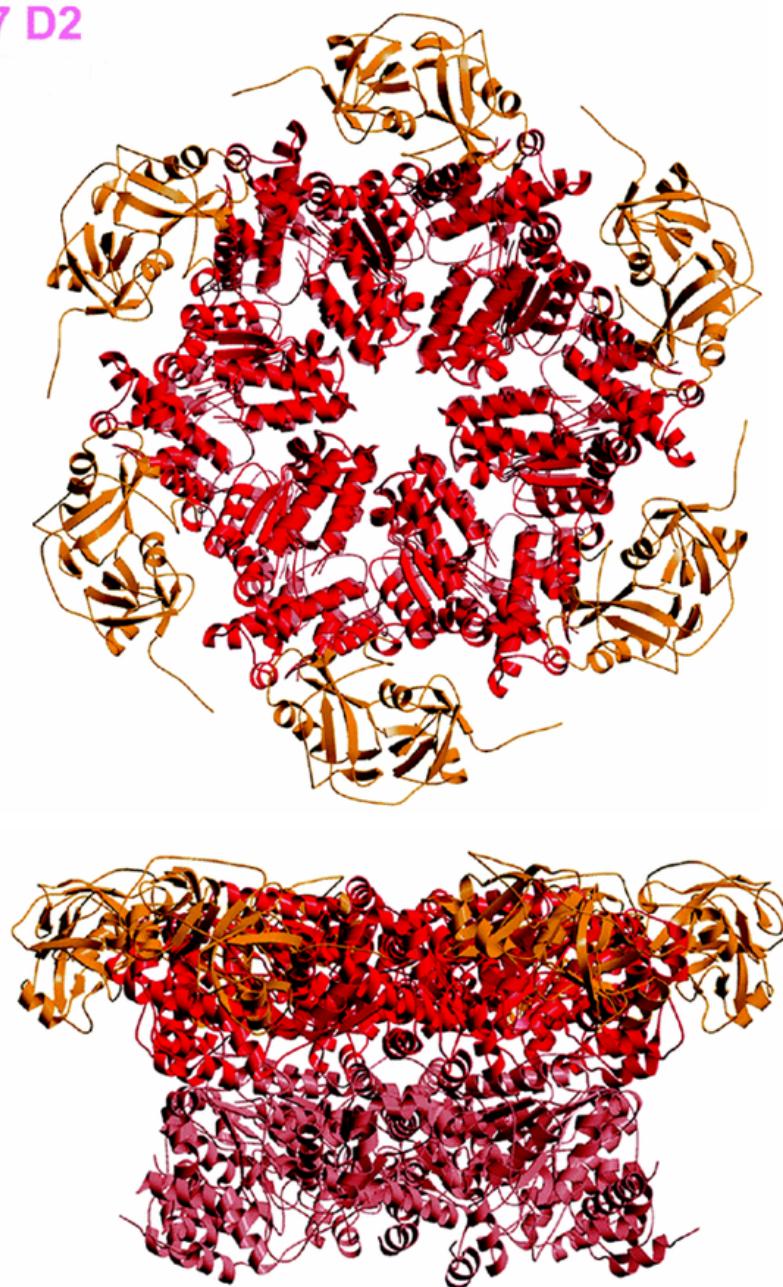


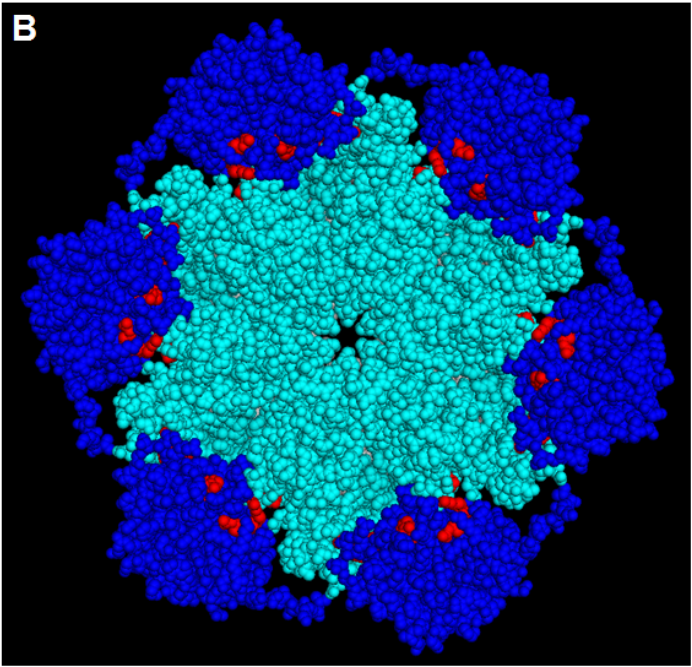
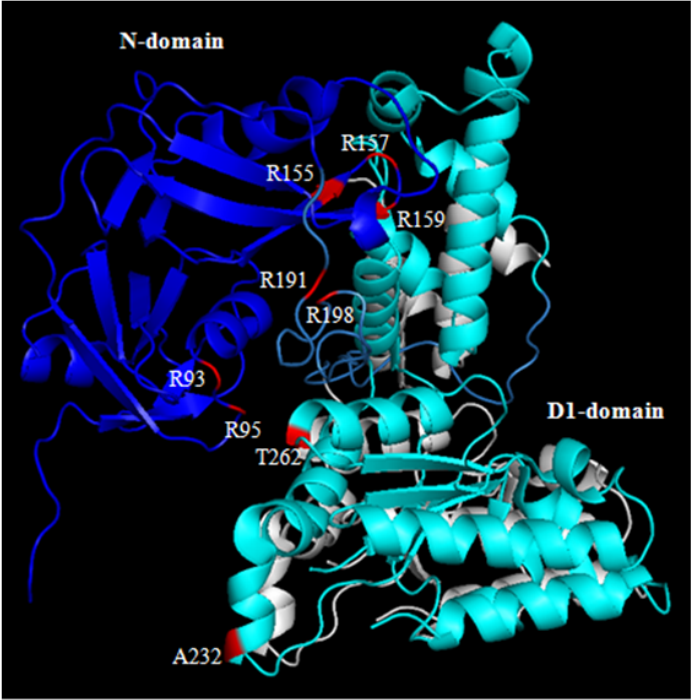
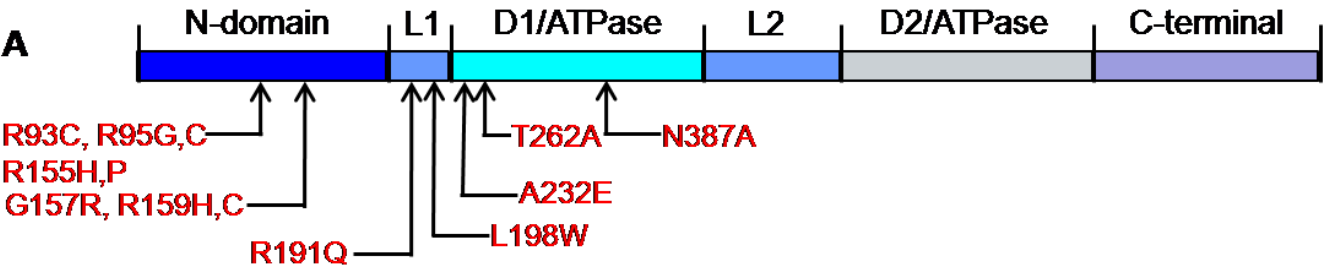
B

p97 N
p97 D1
p97 D2



(Dreveny et al., 2004)

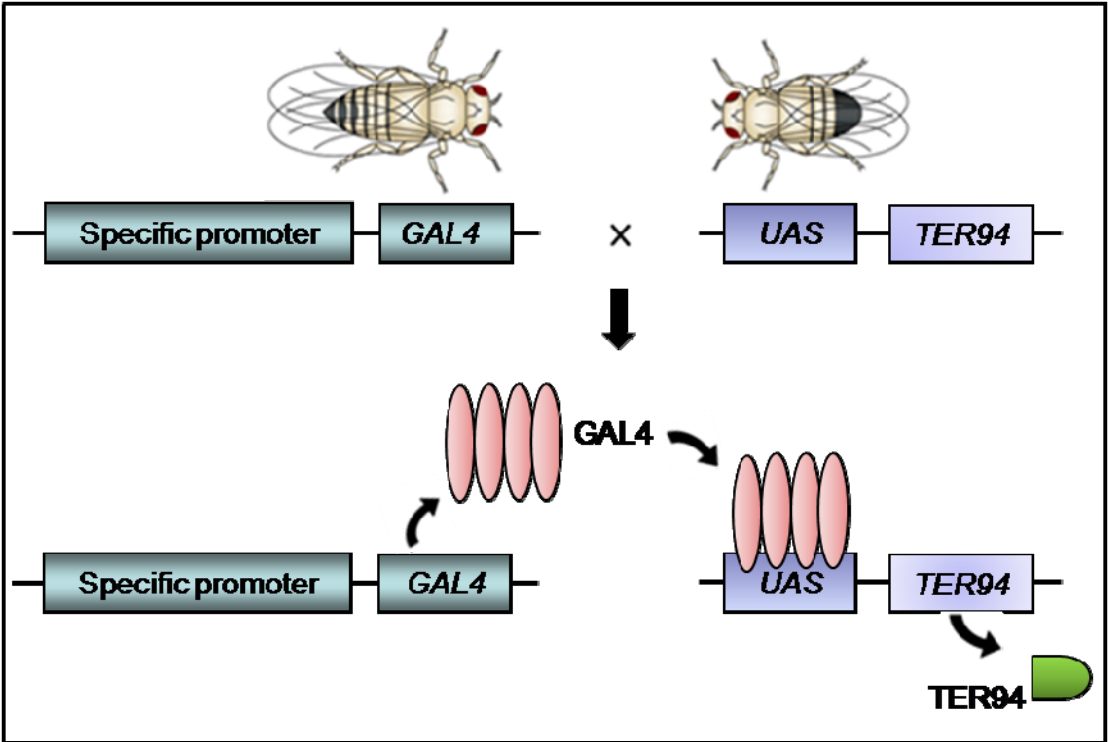
Supplementary Figure 1



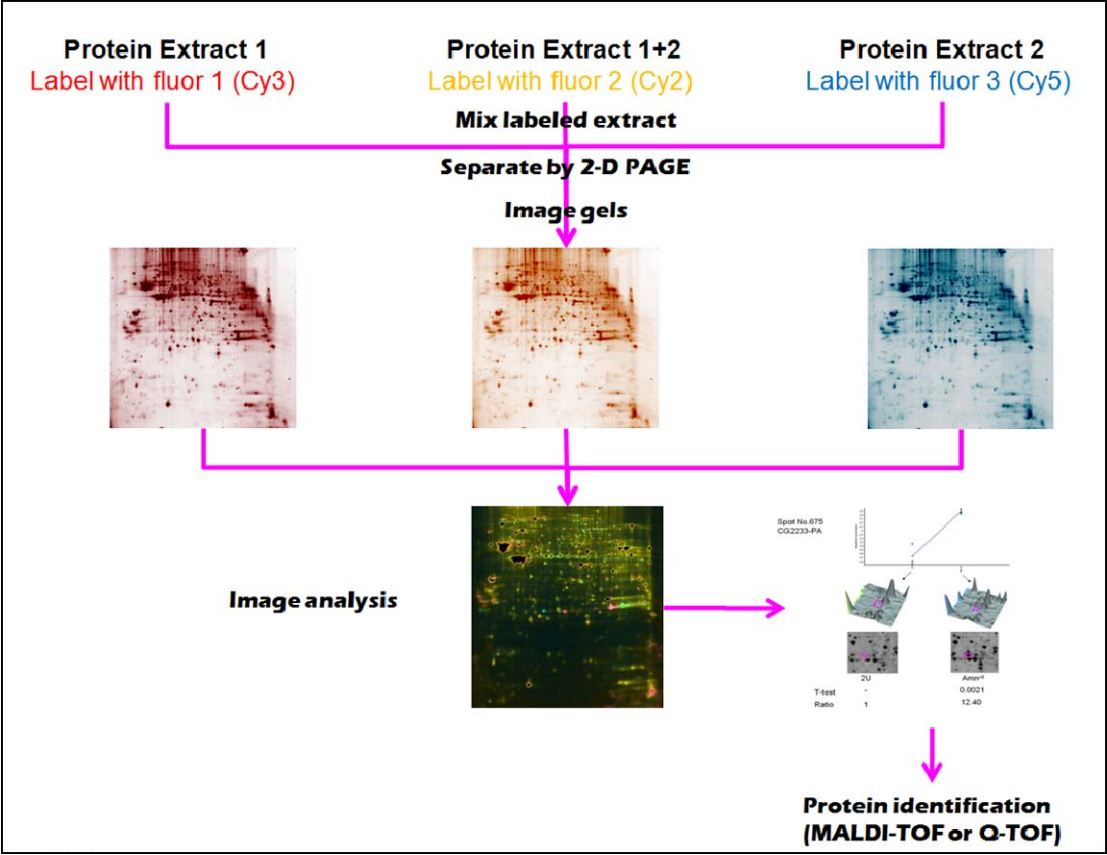
Supplementary Figure 2

Homo_sapiens	MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVSVLSQPKMDELQFRGDTVLLK
Mus_musculus	MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVSVLSQPKMDELQFRGDTVLLK
Drosophila_mela	--MADSKGEDLATAILKRNDRPNRLIVEEAQNDDNSVSVLSQAKMDELQFRGDTVILK
consensus	masgADSKGdDLsTAILKqKnRPnRLIVdEaINeDnSVVSLsQpKMDELQFRGDTVlLK
Homo_sapiens	GKKRRREAVCIVLSDDTCSDEKIRMNRVVRNRLRVRLGDVVISIQPCFDVKYGKRIHVLPID
Mus_musculus	GKKRRREAVCIVLSDDTCSDEKIRMNRVVRNRLRVRLGDVVISIQPCFDVKYGKRIHVLPID
Drosophila_mela	GKKRRKETVCIVLSDDTCSDEKIRMNRVVRNRLRVRLSDVVSQSCFDVKYGKRVRILPID
consensus	GKkRrEaVCIVLSDDTCSDEKIRMNRVVRNRLrVrLgDVIsiQpCFDVKYgKRihvLPID
Homo_sapiens	DTVEGITGNLFEVYLKPYFLEAYRPIRKGDIFLVRGGMRRAVEFKVVEETDPSFYCIVAFDT
Mus_musculus	DTVEGITGNLFEVYLKPYFLEAYRPIRKGDIFLVRGGMRRAVEFKVVEETDPSFYCIVAFDT
Drosophila_mela	ESTEGVTGNLFEIYXLPYFLEAYRPIHMGDNFTVRAAMRPIEFKVVLTDPEFYCIVAFET
consensus	dtvEGiTGNLFEvYlKpYfLEaYrPIrkGDiFlVRggMRaVeFKVVeTDpSFyCIVaPdT
Homo_sapiens	VIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLRHPALFKAIGVKPPRG
Mus_musculus	VIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLRHPALFKAIGVKPPRG
Drosophila_mela	VIFCDGDPKREDEEESLNAVGYDDIGGCRKQLAQIKEMVELPLRHPSLFKAIGVKPPRG
consensus	ViHcEGePiKReDEEESLNeVGYYDDIGGCRKQLaQIKEMVELPLRHpALfKaIGvKPPRG
Homo_sapiens	ILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLKAFEEAEKNAPAI
Mus_musculus	ILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLKAFEEAEKNAPAI
Drosophila_mela	ILMYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLKAFEEAEKNAPAI
consensus	ILlYgPPGTgKtLIARAVANeTGAFFfLIngPeImSkLaGeSeNLrKaFEeAEKnAPaI
Homo_sapiens	IFIDELDAIAPKREKTHGEVERRIVSQLLTMDGLKQRAHVIVMAATNRPN SIDPALRRF
Mus_musculus	IFIDELDAIAPKREKTHGEVERRIVSQLLTMDGLKQRAHVIVMAATNRPN SIDPALRRF
Drosophila_mela	IFIDETDAIAPKRDKTHGEVERRIVSQLLTMDGMKKSSHITVMAATNRPN SIDPALRRF
consensus	IFIDeLDAIAPKReKThGEVeRRiVSQLLTMDGLKqraHvIVMAATNRPNsIDPaLRRF
Homo_sapiens	GRFDREV DIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAAL
Mus_musculus	GRFDREV DIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAAL
Drosophila_mela	GRFDREIDIGIPDATGRLEVLRIHTKNMKLHDDVDLEQIAAESHGHVADLASLCSEAAAL
consensus	GRFDREvDIGIPDATGRLEiLqIHTKNMKLaDDVDLEQvAnEtHGHVGADLaALCSEAAAL
Homo_sapiens	QAIRKMDLIDLEDETIDAEMVNSLAVTMDDFRWALSQSNPSALRETVEVEPQVTWEDIG
Mus_musculus	QAIRKMDLIDLEDETIDAEMVNSLAVTMDDFRWALSQSNPSALRETVEVEPQVTWEDIG
Drosophila_mela	QQIREKMDLIDLEDDKIDAENVASLAVTMENFRYAMTKSSPSALRETVEVEPNTWTWEDIG
consensus	QaIRkMDLiDLeDeTiDAeVmNSlAVTMddFRwAlsqSnPsaLREtVVeVpQvTWEDiG
Homo_sapiens	GLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPFGCGKTLAKAIANECQANFI
Mus_musculus	GLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPFGCGKTLAKAIANECQANFI
Drosophila_mela	GLESVKRELQELVQYPVEHPDKFLKFGMQPSRGVLFYGPFGCGKTLAKAIANECQANFI
consensus	GLedVkrELQELVQYPVEHPDKFLKFGMtPskGVLFYGPFGCGKTLlAKAIANeCQANFI
Homo_sapiens	SIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNI GDGGGAADRV
Mus_musculus	SIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNI GDGGGAADRV
Drosophila_mela	SVKGPELLTMWFGSEANVRDIFDKARS AAPCVLFFDELDSIAKARGGNI GDGGAADRV
consensus	SiKGPELLTMWfGSeANvReIFDKARqAaPCVlFFDeLDSIAKARGGNIgDgGGAADRV
Homo_sapiens	INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIFLPDEKSRVAILKAN
Mus_musculus	INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIFLPDEKSRVAILKAN
Drosophila_mela	INQILTEMDGMGA KKNVFIIGATNRPD IIDPAILRPGRLDQLIYIFLPDDKSR EAILKAN
consensus	INqILTEMDGMstKKNVfIIGATNRpDIIDPaILRPGRlDQlIyIFlPDeKSRvAILKAN
Homo_sapiens	LRKSPVAKDVDLEFLAKMTNGFSGADLTEICQRACKLAIRESEIEIRREERERQTNP-SA
Mus_musculus	LRKSPVAKDVDLEFLAKMTNGFSVADLTEICQRACKLAIRESEIEIRREERERQTNP-SA
Drosophila_mela	LRKSPLAKEVDLT YIAKVTQGFSGADLTEICQRACKLAIRQAIEAIEIRREKERAENQNSA
consensus	LRKSPvAKdVDLeFlAKmTnGfSGADLTeICQRACKLAIResIEsEIRRErERqtNp-SA
Homo_sapiens	MEVEEDDPVPEIIRRDHFEEAMRFARRSVSDNDIRKYEMFAQTLQQSRGFGS-FRFFSGNQ
Mus_musculus	MEVEEDDPVPEIIRRDHFEEAMRFARRSVSDNDIRKYEMFAQTLQQSRGFGS-FRFFSGNQ
Drosophila_mela	MDMDEDDPVPEITSAHFEEAMKFARRSVSDNDIRKYEMFAQTLQQSRGFGQNTFRFP----
consensus	MeVeEDDPVPEIrrdHFEEAMrFARRSVSDNDirKYEMfAQTLQQSRGFGs-FRFPsgnq
Homo_sapiens	GGAGPSQGS GGGGTGGSVYTEDNDDDLYG 100%
Mus_musculus	GGAGPSQGS GGGGTGGSVYTEDNDDDLYG 99%
Drosophila_mela	GQTENTSGSCNNLPVNSPGDNGDDDLYS 84%
consensus	GgaGpsqGSGggtggsvytednDDDLyG

Supplementary Figure 3



Supplementary Figure 4



Supplementary Figure 5