

Sup Table S4 - Results from the comparative analysis of the predicted proteome of *H. guilliermondii*, *H. uvarum* and *H. opuntiae*. In this table it is provided the complete list of *H. guilliermondii* proteins having an orthologue in *H. Uvarum* but not in *opuntiae* or vice-versa. The list of proteins only found to be present in *H. guilliermondii* is provided in Table 3

H. guilliermondii* UTAD222 proteins having an orthologue in *H. uvarum* but not in *H. opuntiae

ORF name	Probable Function	<i>H. uvarum</i> orthologue (in AWRI3580/in DSM2768)
HGUI_03766	40S ribosomal protein S9-B	AWRI3580_g1278/-
HGUI_03940	ATP synthase F0 subunit 6	*
HGUI_03532	Predicted to be involved in endosome-to-Golgi intracellular trafficking	-/HuPEP8
HGUI_00706	Dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosyltransferase	AWRI3580_g2240/HuALG6
HGUI_03286	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase	AWRI3580_g1764/HuOST2
HGUI_03882	Dol-P-Glc:Glc(2)Man(9)GlcNAc(2)-PP-Dol alpha-1,2-glucosyltransferase	AWRI3580_g1578/-
HGUI_01192	Eukaryotic translation initiation factor eIF-1	AWRI3580_g477/-
HGUI_00394	Predicted hydroxyacyl-thioester dehydratase involved in fatty acid biosynthesis	AWRI3580_g894/HuHTD2
HGUI_02418	hypothetical protein	AWRI3580_g1155/-
HGUI_02236	hypothetical protein	AWRI3580_g1206/D499_0A01470
HGUI_02674	hypothetical protein	AWRI3580_g195/-
HGUI_01572	hypothetical protein	AWRI3580_g2315/D499_0V00460
HGUI_01919	hypothetical protein	AWRI3580_g3156/-
HGUI_01507	hypothetical protein	AWRI3580_g3494/-
HGUI_03033	hypothetical protein	AWRI3580_g680/-
HGUI_01967	hypothetical protein	AWRI3580_g1057/D499_0B02930
HGUI_03880	hypothetical protein	AWRI3580_g769/D499_0D00190
HGUI_03533	hypothetical protein	AWRI3580_g2712/D499_0O00610
HGUI_00957	hypothetical protein	AWRI3580_g3205/D499_0S00140
HGUI_01400	Predicted to be involved in meiotic recombination	AWRI3580_g1315/-
HGUI_03082	Predicted oxidoreductase of unknown function	AWRI3580_g988/HuMHO1
HGUI_03531	Predicted mitochondrial import inner membrane translocase subunit	AWRI3580_g2710/HuTIM54
HGUI_02284	Predicted to be involved in intracellular protein trafficking, similar to ScSss1	AWRI3580_g3696/-
HGUI_02921	Ribosomal protein S27B	AWRI3580_g1002/-
HGUI_02055	U6 snRNA-associated Sm-like protein LSM6	AWRI3580_g1519/-
HGUI_03514	Predicted UDP-N-acetylglucosamine transferase	AWRI3580_g742/HuALG14

*although not found in AWRI3580 or DSM2768 strains, this protein presents similarity with the *H. uvarum* MUCL 31704 protein encoding gene *atp6*

H. guilliermondii* UTAD222 proteins having an orthologue in *H. opuntiae* but not in *H. uvarum

ORF name	Probable Function	<i>H. opuntiae</i> 3578 orthologue
HGUI_02309	Predicted chitin synthase export chaperone	AWRI3578_g694
HGUI_03602	Predicted vacuolar membrane Cu transporter	AWRI3578_g678
HGUI_02076	Cytochrome c oxidase assembly protein Cox19	AWRI3578_g1039
HGUI_02829	DNA-directed RNA polymerases I, II, and III subunit RPABC5	AWRI3578_g778
HGUI_01733	Dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1,3-glucosyltransferase	AWRI3578_g4036
HGUI_00687	Predicted to be involved in ER-derived vesicles, similar to ScErv14	AWRI3578_g1629
HGUI_01945	FIT family protein YFT2	AWRI3578_g2756
HGUI_02281	Predicted Golgi apparatus membrane protein, similar to ScTvp23	AWRI3578_g2662
HGUI_01849	Predicted to be involved in meiosis, similar to ScSpo11	AWRI3578_g1481

HGUI_02598	Mitochondrial import inner membrane translocase subunit TIM12	AWRI3578_g3410
HGUI_03213	Mitochondrial inner membrane protease subunit 2	AWRI3578_g347
HGUI_01086	Mitochondrial protein required for assembly of cytochrome c oxidase, mitochondrial	AWRI3578_g916
HGUI_02427	Predicted to be involved in protein palmitoylation, similar to ScSwf1	AWRI3578_g3718
HGUI_00194	Predicted transcriptional regulator of the Zn-finger family, shows some similarity with ScRim101	AWRI3578_g3297
HGUI_02570	Pre-mRNA-splicing factor, similar to ScBUD31	AWRI3578_g3471
HGUI_00920	Pre-mRNA-splicing factor, similar to ScCWC24	AWRI3578_g3969
HGUI_00264	Mitochondrial protein predicted to be involved in ethanol metabolism, similar to ScSym1	AWRI3578_g1271
HGUI_02287	putative 5-hydroxyisourate hydrolase	AWRI3578_g2657
HGUI_00707	putative glucan endo-1,3-beta-glucosidase btgC	AWRI3578_g1650
HGUI_01349	Predicted GPI-anchored protein of unknown function	AWRI3578_g2558
HGUI_04010	ribosomal protein S30	AWRI3578_g1898
HGUI_01297	Predicted to be involved in sporulation, similar to ScSpo7	AWRI3578_g1932
HGUI_01594	Structure-specific endonuclease subunit SLX1	AWRI3578_g1590
HGUI_02312	Predicted membrane protein of unknown function	AWRI3578_g691
HGUI_02743	Predicted membrane protein of unknown function	AWRI3578_g3447
HGUI_03176	Predicted to be involved in vacuolar ATPase assembly integral membrane protein VPH2	AWRI3578_g316
HGUI_03779	Uncharacterized protein	AWRI3578_g1012
HGUI_01084	Uncharacterized protein	AWRI3578_g914
HGUI_02099	hypothetical protein	AWRI3578_g1062
HGUI_03580	hypothetical protein	AWRI3578_g107
HGUI_01791	hypothetical protein	AWRI3578_g125
HGUI_01745	hypothetical protein	AWRI3578_g1260
HGUI_03984	hypothetical protein	AWRI3578_g1414
HGUI_02153	hypothetical protein	AWRI3578_g1466
HGUI_01852	hypothetical protein	AWRI3578_g1484
HGUI_01860	hypothetical protein	AWRI3578_g1493
HGUI_01879	hypothetical protein	AWRI3578_g1512
HGUI_01556	hypothetical protein	AWRI3578_g1553
HGUI_03701	hypothetical protein	AWRI3578_g1615
HGUI_00563	hypothetical protein	AWRI3578_g1655
HGUI_00712	hypothetical protein	AWRI3578_g1655
HGUI_02623	hypothetical protein	AWRI3578_g1756
HGUI_03641	hypothetical protein	AWRI3578_g1767
HGUI_02459	hypothetical protein	AWRI3578_g2007
HGUI_00652	hypothetical protein	AWRI3578_g2102
HGUI_03409	hypothetical protein	AWRI3578_g2117
HGUI_03324	hypothetical protein	AWRI3578_g2205
HGUI_02363	hypothetical protein	AWRI3578_g2240
HGUI_02556	hypothetical protein	AWRI3578_g2277
HGUI_01194	hypothetical protein	AWRI3578_g231
HGUI_03866	hypothetical protein	AWRI3578_g2330
HGUI_00512	hypothetical protein	AWRI3578_g2451
HGUI_00507	hypothetical protein	AWRI3578_g2456
HGUI_03629	hypothetical protein	AWRI3578_g2493
HGUI_01326	hypothetical protein	AWRI3578_g2581
HGUI_00327	hypothetical protein	AWRI3578_g2634
HGUI_03558	hypothetical protein	AWRI3578_g2717

HGUI_03551 hypothetical protein
HGUI_03550 hypothetical protein
HGUI_01957 hypothetical protein
HGUI_01664 hypothetical protein
HGUI_01687 hypothetical protein
HGUI_03684 hypothetical protein
HGUI_03921 hypothetical protein
HGUI_02520 hypothetical protein
HGUI_00191 hypothetical protein
HGUI_04004 hypothetical protein
HGUI_02493 hypothetical protein
HGUI_02419 hypothetical protein
HGUI_02412 hypothetical protein
HGUI_02238 hypothetical protein
HGUI_01428 hypothetical protein
HGUI_00891 hypothetical protein
HGUI_01725 hypothetical protein
HGUI_03574 hypothetical protein
HGUI_00952 hypothetical protein
HGUI_04052 hypothetical protein
HGUI_03983 hypothetical protein
HGUI_00026 hypothetical protein
HGUI_02004 hypothetical protein
HGUI_02012 hypothetical protein
HGUI_02115 hypothetical protein
HGUI_00754 hypothetical protein
HGUI_02835 hypothetical protein
HGUI_01043 hypothetical protein
HGUI_00872 hypothetical protein

AWRI3578_g2723
AWRI3578_g2724
AWRI3578_g2744
AWRI3578_g2934
AWRI3578_g2958
AWRI3578_g3095
AWRI3578_g3146
AWRI3578_g3165
AWRI3578_g3300
AWRI3578_g3425
AWRI3578_g3556
AWRI3578_g3726
AWRI3578_g3732
AWRI3578_g3776
AWRI3578_g3912
AWRI3578_g3938
AWRI3578_g4044
AWRI3578_g4154
AWRI3578_g4168
AWRI3578_g4170
AWRI3578_g4175
AWRI3578_g442
AWRI3578_g496
AWRI3578_g504
AWRI3578_g591
AWRI3578_g623
AWRI3578_g784
AWRI3578_g875
AWRI3578_g933