

**Table S4.** Pairwise comparison of DIA1 and DIA1R proteins.

Protein		DIA1									DIA1R								
	Species <sup>a</sup>	Hsapi <sup>b</sup>	Mmula	Btaur	Mmusc	Rnorv	Mdome	Ggall	Dr(a)	Dr(b)	Hsapi <sup>b</sup>	Mmula	Btaur	Mmusc	Rnorv	Mdome	Ggall	Dreri	
Percentage amino acid similarity <sup>c</sup>	DIA1																		
		Hsapi	-	100	99	98	98	97	90	78	82	28	29	28	26	26	29	28	27
		Mmula	100	-	99	98	98	97	90	78	82	28	29	28	26	26	29	28	27
		Btaur	100	100	-	98	98	97	90	78	82	28	29	28	26	26	29	28	27
		Mmusc	99	99	99	-	100	96	89	78	82	28	29	27	27	27	29	28	27
		Rnorv	99	99	99	100	-	96	89	78	82	28	29	27	27	27	29	28	27
		Mdome	99	99	100	99	99	-	88	77	82	28	28	28	26	27	27	29	27
		Ggall	96	96	96	99	96	96	-	78	82	29	29	28	27	27	28	28	29
		Dreri(a)	96	96	96	97	95	96	95	-	88	28	28	28	26	27	27	26	25
		Dreri(b)	97	97	97	97	97	97	97	98	-	28	28	28	25	26	28	29	26
		DIA1R																	
		Hsapi	62	62	62	63	63	62	62	62	62	-	97	83	81	80	74	65	45
		Mmula	63	63	63	64	64	63	63	63	62	99	-	83	81	83	73	64	44
		Btaur	61	61	61	64	64	62	62	63	62	96	94	-	79	78	70	62	46
		Mmusc	63	63	63	64	64	62	64	63	62	94	95	93	-	91	71	63	45
		Rnorv	60	60	60	60	60	62	60	62	62	95	94	94	97	-	70	61	45
		Mdome	63	63	63	63	63	63	63	65	62	91	91	90	90	89	-	66	48
	Ggall	61	61	61	61	61	62	62	63	63	87	87	86	86	86	90	-	45	
	Dreri	59	59	59	59	59	60	62	60	60	78	78	77	76	76	78	76	-	

<sup>a</sup>Species with both a DIA1 and DIA1R orthologue (on the current databases) are presented.

<sup>b</sup>Species abbreviations are the first letter of the genus name, followed by the first four letters of the species name e.g. Homo sapiens = Hsapi. Full details of species names and protein accession numbers can be found in from Tables S1 and S5.

<sup>c</sup>The percent identity (above diagonal) and similarity (below diagonal) between proteins aligned pair-wise using CLUSTALW [47] are displayed.