

Table S1. Results of primary sequence analysis of insect transferrins.

Species	Accession number	Orthologous Group	Predicted signal peptide	Predicted C-terminal trans-membrane region	Predicted GPI anchor	Predicted iron binding†
<i>Drosophila melanogaster</i>	AAC67389	Tsf1	Yes	No	No	Yes
	NP_524044	Tsf2	Yes	Yes	Yes	Yes
	NP_523759	Tsf3	Yes	Yes	Yes	No
<i>Aedes aegypti</i>	XP_001647719	Tsf1	Yes	No	No	Yes
	XP_021699709	Tsf2	Yes	Yes	Yes	No
	EAT34844 edited	Tsf3	Yes	Yes	Yes	No
	XP_001661801	Tsf4	Yes	Yes	Yes	No
<i>Ctenocephalides felis</i>	XP_026466165	Tsf1	Yes	No	No	Yes
	XP_026479930	Tsf2	Yes	Yes	Yes	Yes
	XP_026471608 and 026471609	Tsf3	Yes	Yes	Yes	No
<i>Manduca sexta</i>	P22297	Tsf1	Yes	No	No	Yes
	Msex2.11184 edited	Tsf2	Yes	Yes	Yes	No
	Msex2.10792 and 10793	Tsf3	Yes	Yes	Yes	No
	Msex2.12754-RB	Tsf4	Yes	Yes	Yes	No
<i>Papilio xuthus</i>	XP_013173464	Tsf1	Yes	No	No	Yes
	KPJ03186	Tsf2	Yes	Yes	Yes	No
	KPI99226	Tsf3	No	Yes	Yes	No
	KPI99233 edited	Tsf4	Yes	Yes	Yes	No
<i>Annulipalpia species</i>	GATX01086443	Tsf1	Yes	No	No	Yes
	GATX01000541	Tsf2	Yes	Yes	No	No
	GATX01016449 edited	Tsf3	Yes	No	No	No
	GATX01086805	Tsf4	Yes	Yes	Yes	No
<i>Micropterna lateralis</i>	GELV01013828	Tsf2	Yes	Yes	Yes	No
	GELV01010679	Tsf3	Yes	Yes	Yes	No
	GELV01015247	Tsf4	Yes	Yes	Yes	No
<i>Tribolium castaneum</i>	XP_001808066	Tsf1	Yes	No	No	Yes
	XP_015839046	Tsf2	Yes	Yes	No	No
	XP_015838610	Tsf3	Yes	Yes	Yes	No
	XP_008199941 edited	Tsf4	Yes	Yes	Yes	No
<i>Apis mellifera</i>	NP_001011572	Tsf1	Yes	No	No	Yes
	XP_396618	Tsf2	Yes	Yes	Yes	Yes
	XP_001122328 edited	Tsf3	Yes	Yes	No	No
<i>Pediculus humanus</i>	XP_002422999	Tsf2	No	Yes	No	Yes
	XP_002425773 edited	Tsf3	Yes	No	Yes	No

<i>Acyrtosiphon pisum</i>	XP_001947699	Tsf2	Yes	Yes	Yes	No
	XP_016660805	Tsf2	Yes	No	No	No
	XP_001946481	Tsf3	Yes	Yes	Yes	No
<i>Rhodnius prolixus</i>	GECK01013297	Tsf1	Yes	No	No	Yes
	GECK01101790	Tsf2	Yes	Yes	Yes	No
	GECK01023379	Tsf4	Yes	Yes	Yes	No
<i>Frankliniella occidentalis</i>	XP_026287309	Tsf2	Yes	Yes	Yes	Yes
	XP_026287716	Tsf4	Yes	Yes	Yes	No
<i>Zootermopsis nevadensis</i>	XP_021919348	Tsf1	Yes	No	No	Yes
	XP_021922858	Tsf2	Yes	Yes	Yes	Yes
	XP_021919332 edited	Tsf3	Yes	Yes	Yes	No
	XP_021919264	Tsf4	Yes	Yes	Yes	No
<i>Blaberus discoidalis</i>	Q02942	Tsf1	Yes	No	No	Yes
<i>Medauroidea extradentata</i>	GAWD01077063	Tsf1	No	No	No	Yes
	GAWD01046554	Tsf2	Yes	Yes	Yes	Yes
	GAWD01030369	Tsf3	Yes	Yes	Yes	No
	GAWD01074570	Tsf4	Yes	Yes	Yes	No
<i>Locusta migratoria</i>	BBE27867	Tsf1	Yes	No	No	Yes
	JAMg_model_8133	Tsf2	Yes	Yes	Yes	Yes
	JAMg_model_4881	Tsf3	Yes	Yes	Yes	No
<i>Ephemera danica</i>	Ed_EDAN016810 edited	Tsf2	Yes	Yes	Yes	Yes
	EDAN009681_PA	Tsf3	No	Yes	Yes	No
	EDAN001636_PA	Tsf4	Yes	Yes	Yes	No
<i>Ladona fulva</i>	LFUL008155_PA edit	Tsf1	Yes	No	No	Yes
	LFUL002433 and LFUL002434 (has gap)	Tsf2	Yes	Yes	Yes	No
	LFUL016472 and LFUL016473 (has gap)	Tsf3	No	Yes	Yes	No
<i>Atelura formicaria</i>	GAYJ02040055	Tsf1	Yes	No	No	Yes
	GAYJ02040158	Tsf3	Yes	Yes	Yes	No
	GAYJ02044273	Tsf4	No	Yes	No	No
<i>Thermobia domestica</i>	GASN02065056	Tsf1	Yes	No	No	Yes
	GASN02058069	Tsf3	Yes	Yes	Yes	No
	GHEH01000467	Tsf4	Yes	Yes	Yes	No
<i>Meinertellus cundinamarcensis</i>	GAUG02039070		Yes	Yes	Yes	Yes
	GAUG02047150*		-	No	No	-

†For Tsf2 predictions, two signatures were predicted to be iron binding: DYHNTT and DYYNTT.

*Gene prediction has an amino-terminal truncation that prevents signal peptide and iron binding predictions.