

Table S1. Family, species and Genbank accession number and Barcode Index Number (BIN) ID of the sequences used in the phylogenetic tree

Family	Fruit fly species	Genbank accession number	BIN ID	Country
Tephritidae	<i>Carpomya incompleta</i>	ON045002		Iraq
		ON045003		Iraq
	<i>Carpomya vesuviana</i>	OK147323	BOLD:ACR7938	Spain
		JX515609	BOLD:ADV5079	China
		JQ668127	BOLD:ACH5208	Iran
		KU131576	BOLD:AEG6878	China
		KP638430	BOLD:ADV5079	China
		KP638431	BOLD:ADV5079	China
		KP638432	BOLD:ADV5079	China
		KP638433	BOLD:ADV5079	China
		MN256057	BOLD:AEG6877	Thailand
		MN256056	BOLD:AEG6877	Thailand
		MN256055	BOLD:AEG6877	Thailand
		MN256054	BOLD:AEG6877	Thailand
		MN256053	BOLD:AEG6877	Thailand
		MN256052	BOLD:AEG6877	Thailand
		MN256051	BOLD:AEG6877	Thailand
		MN256050	BOLD:AEG6877	Thailand
		MN256049	BOLD:AEG6877	Thailand
		MN256048	BOLD:AEG6877	Thailand
		MN256047	BOLD:AEG6877	Thailand
		MN256046	BOLD:AEG6877	Thailand
		MN256045	BOLD:AEG6877	Thailand
		MN256044	BOLD:AEG6877	Thailand
		MN256043	BOLD:AEG6877	Thailand
		MN256042	BOLD:AEG6877	Thailand
		MN256041	BOLD:AEG6877	Thailand
		MN256040	BOLD:AEG6877	Thailand
		MN256039	BOLD:AEG6877	Thailand
	MT533182	BOLD:ADV5079	India	
	<i>Rhagoletis turanica</i>	MH998899	BOLD:AEA8133	Kyrgyzstan
	<i>Rhagoletis berberis</i>	MH998943	BOLD:ADB1426	USA
	<i>Rhagoletis zoqui</i>	HQ677130	BOLD:AAY0139	Mexico
<i>Rhagoletis completa</i>	HQ677111	BOLD:AAY0139	Mexico	
<i>Rhagoletis ramosae</i>	HQ677141	BOLD:AAY0139	Mexico	
<i>Euleia heraclei</i>	MK882936		Iraq	
<i>Bactrocera tryoni</i>	MH135261		Australia	
<i>Bactrocera dorsalis</i>	MN454428		South Africa	
	MN454448		South Africa	
Drosophilidae	<i>Leucophenga albiceps</i>	KP697101		China