

Table 1. Genes and taxa sampled for Holometabola and outgroups.

Genes		# of bp
AATS Alanyl-tRNA synthetas		915
CAD Carbamoylphosphate synthase (CPS) domain		2057
PGD 6-Phosphogluconate dehydrogenase		802
SNF Sans fille		560
TPI triosephosphate isomerase		498
RNA Polymerase II		899
Taxa		
order		
Dictyoptera	<i>genus species</i>	Genbank #
Thysanoptera	<i>Blatella germanica</i>	XX000000
Hymenoptera	<i>Frankliniella fusca</i>	XX000000
Hymenoptera	<i>Ametastegia equiseti</i>	XX000000
Hymenoptera	<i>Muscidofurax raptorellus</i>	XX000000
Coleoptera	<i>Apis mellifera</i>	XX000000
Coleoptera	<i>Tribolium castaneum</i>	XX000000
Neuroptera	<i>Strangalia bicolor</i>	XX000000
Neuroptera	<i>Austronevrorthus brunneipennis</i>	XX000000
Neuroptera	<i>Kempynus sp.</i>	XX000000
Raphidioptera	<i>Platystoechotes sp.</i>	XX000000
Megaloptera	<i>Mongolorhaphidia martynovae</i>	XX000000

Trichoptera	<i>Nigronia sp.</i>	XX000000
Lepidoptera	<i>Hydropsyche phalerata</i>	XX000000
Lepidoptera	<i>Heliothis virescens</i>	XX000000
Diptera	<i>Bombyx mori</i>	XX000000
Diptera	<i>Anopheles gambiae</i>	XX000000
Diptera	<i>Tipula abdominalis</i>	XX000000
Diptera	<i>Musca domestica</i>	XX000000
Strepsiptera	<i>Drosophila melanogaster</i>	XX000000
Strepsiptera	Halictophagidae sp.	XX000000
Mecoptera	<i>Mengenilla sp.</i>	XX000000
Mecoptera	<i>Nannochorista sp.</i>	XX000000
Mecoptera	<i>Panorpa sp.</i>	XX000000
Mecoptera	<i>Boreus brumalis</i>	XX000000
Mecoptera	<i>Australobittacus sp.</i>	XX000000
Mecoptera	<i>Microchorista philpotti</i>	XX000000
Siphonaptera	<i>Boreus sp.</i>	XX000000
Siphonaptera	<i>Neotyphloceras sp.</i>	XX000000
