

Supplementary **Table S1.** Genomes used for primer design in this study

Supergroup	Strain	Host	Accession
A	wMel	<i>Drosophila melanogaster</i>	NC002978
A	wInc_Cu	<i>Drosophila incompta</i>	CP011148
A	wRi	<i>Drosophila simulans</i>	CP001391
A	wCauA	<i>Carposina sasakii</i>	CP041215
A	wHa	<i>Drosophila simulans</i>	NC021089
A	wMelPop	<i>Drosophila melanogaster</i>	NZ_AQQE00000000.1
A	wYak	<i>Drosophila yakuba</i>	NZ_VCEF00000000.1
A	wAu	<i>Drosophila simulans</i>	NZ_LK055284.1
A	wRec	<i>Drosophila recens</i>	NZ_JQAM00000000.1
A	wAna	<i>Drosophila ananassae</i>	NZ_CP042904.1
A	wSpc	<i>Drosophila subpulchrella</i>	NZ_NTHL00000000.1
A	wSuzi	<i>Drosophila suzukii</i>	NZ_CAOU00000000.2
A	wOneA1	<i>Nasonia oneida</i>	NZ_QESS00000000.1
A	wUni	<i>Muscidifurax uniraptor</i>	NZ_MUJL01000001.1
A	wVitA	<i>Nasonia vitripennis</i>	NZ_MUJM01000001.1
A	wGmo	<i>Glossina morsitans</i>	NZ_AWUH00000000.1
A	wNfla	<i>Nomada flava</i>	NZ_LYUW00000000.1
A	wNleu	<i>Nomada leucophthalma</i>	NZ_LYUV00000000.1
A	wNpa	<i>Nomada panzeri</i>	NZ_LYUX00000000.1
A	wNfe	<i>Nomada ferruginata</i>	NZ_LYUY00000000.1
A	wDacA	<i>Dactylopius coccus</i>	NZ_LSYX00000000.1
B	wMeg	<i>Chrysomya megacephala</i>	CP021120
B	wPipPel	<i>Culex quinquefasciatus Pel</i>	NC010981
B	wTpre	<i>Trichogramma pretiosum</i>	CM003641
B	wAlbB	<i>Aedes albopictus</i>	CP031221
B	wBol1-b	<i>Hypolimnas bolina</i>	NZ_CAOH00000000.1
B	wPipMol	<i>Culex molestus</i>	NZ_CTEH00000000.1
B	wAus	<i>Plutella Australiana</i>	NZ_MRWX01000001
B	wOb	<i>Operophtera brumata</i>	NZ_JYPC00000000.1
B	wLcla	<i>Leptopilina clavipes</i>	NZ_QJHA00000000.1
B	wVitB	<i>Nasonia vitripennis</i>	NZ_AERW00000000.1
B	wDacB	<i>Dactylopius coccus</i>	NZ_LSYX00000000.1
B	wStri	<i>Laodelphax striatellus</i>	NZ_MUIX00000000.1
B	wDi	<i>Diaphorina citri</i>	NZ_AMZJ01000001.1
B	wLug	<i>Nilaparvata lugens</i>	NZ_MUIY00000000.1
B	wCon	<i>Cylisticus convexus</i>	NZ_QPIP00000000.1
B	wVulC	<i>Armadillidium vulgare</i>	NZ_ALWU01000001.1