

Additional file 3: Outgroup taxa.

Table S1: Detailed sampling and sequence information on the outgroup taxa used in the phylogenetic analyses (Figure 1). Geographic origins see Table 2. Both specimens of *L. hirticornis* from central and northern Germany shared the same haplotype. Three and two samples of *L. testaceipes* each shared identical haplotypes, both occurring at distantly separated regions in southern France, respectively.

Species	Host species	Geographic origin	GenBank accession number	
			COI	ATP6
<i>Lysiphlebus hirticornis</i>	<i>Metopeurum fuscoviride</i>	Hesse (D)	HQ724540	HQ724577
<i>Lysiphlebus hirticornis</i>	<i>Metopeurum fuscoviride</i>	Dithmarschen (D)	HQ724540	HQ724577
<i>Lysiphlebus testaceipes</i> ¹	<i>Aphis hederæ</i>	Camargue (F)	HQ724537	HQ724574
<i>Lysiphlebus testaceipes</i> ¹	<i>Aphis ruborum</i>	Camargue (F)	HQ724537	HQ724574
<i>Lysiphlebus testaceipes</i> ¹	<i>Aphis fabæ fabæ</i>	Côte d’Azur (F)	HQ724537	HQ724574
<i>Lysiphlebus testaceipes</i> ²	<i>Brachycaudus cardui</i>	Camargue (F)	HQ724538	HQ724575
<i>Lysiphlebus testaceipes</i> ²	<i>Aphis</i> sp.	Côte d’Azur (F)	HQ724538	HQ724575
<i>Adialytus salicaphis</i>	<i>Chaitophorus</i> sp.	Zurich-area (CH)	HQ724539	HQ724576
<i>Diaeretiella rapae</i>	<i>Brevycoryne brassicae</i>	Zurich-area (CH)	HQ724536	HQ724573
<i>Aphidius colemani</i>	<i>Myzus persicae</i>	Zurich-area (CH)	HQ724535	HQ724572