Additional file 3 – Neighbour-joining tree of pre-reassessment data set.

Kimura 2-parameter NJ tree of 1133 high quality COI sequences (≥600bp) from 160 Muscidae species and undetermined material of *Graphomya*. The five putative lineages of *Graphomya* based on 1.2% threshold are highlighted in different colours. Bootstrap values based on 1000 replicates.