

**Additional file 2:**

Housekeeping gene expression profiles of *C. stoebe* geo-cytotypes. Standards used to create normalization factors for analysis of genes of interest. For each sample, total RNA (ng/ul) was estimated using the appropriate standard curve and a normalization factor was calculated based on the geometric mean of all three standards, as suggested in Vandersompele et al. 2002 [61]. Significant differences in gene expression (log cDNA) were determined for geo-cytotypes of interest (EU 2× versus EU 4× and EU 4× versus US 4×) using pair-wise comparisons of LSmeans. Bars represent back-transformed LSmeans and standard errors. Fisher's LSD was used for pair-wise mean comparisons, and values are reported in Table 1. Different letters above the columns indicate significant differences ( $P < 0.05$ ) between pairs of geo-cytotypes. Legend; 2× EU, native Eurasian diploid populations; 4× EU, native Eurasian tetraploid populations; 4× US, invasive North American tetraploids.

