



**Fig. S8. The phylogenetic tree of the albumin I gene (Zhang et al., 2013) in OrthoFinder group 12775 .** Different angiosperm lineages are coloured according to the colour code system in Fig. 2d. The two HGT clades represent independent HGT events in the *Cuscuta* genus and in the Orobanchaceae family. Consistent with the earlier finding by Zhang et al. (2013), this tree supports HGT in both *Cuscuta* and the Orobanchaceae parasites.

## References

Zhang, Y. et al. Evolution of a horizontally acquired legume gene, albumin 1, in the parasitic plant *Phelipanche aegyptiaca* and related species. BMC Evol Biol 13, 48, doi:10.1186/1471-2148-13-48 (2013).