

### **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Summary of the identified genes involved in sulfoxide biosynthesis in *Allium fistulosum*.

File Name: Supplementary Data 2

Description: Summary of the identified genes involved in sulfoxide biosynthesis in *Allium Cepa*.

File Name: Supplementary Data 3

Description: Summary of the identified genes involved in sulfoxide biosynthesis in *Allium Sativum*.

File Name: Supplementary Data 4

Description: Detailed information on accessions used for re-sequencing.