



Figure S2: Categories of orthologous groups in the d_N/d_S evolutionary analysis. All: the orthologous groups containing a one-to-one relationship between all nine genomes. **Ara1:** the orthologous groups containing a one-to-one relationship within the *Arabidopsis* genus but allows for some pruning of the remaining six genomes and for lacking one of the genes in a coloured clade (red and green clade). **Variable:** this is the most variable category which only needs to have a single gene from *A. thaliana*, the rest can be pruned and lack one of the genes in a coloured clade (blue, red and green clade). Green, red and blue branch pairs: allows for lacking one of the genes within the clade and pruning, black branches: only one gene within the orthologous group, orange: allows for pruning of duplicated genes.