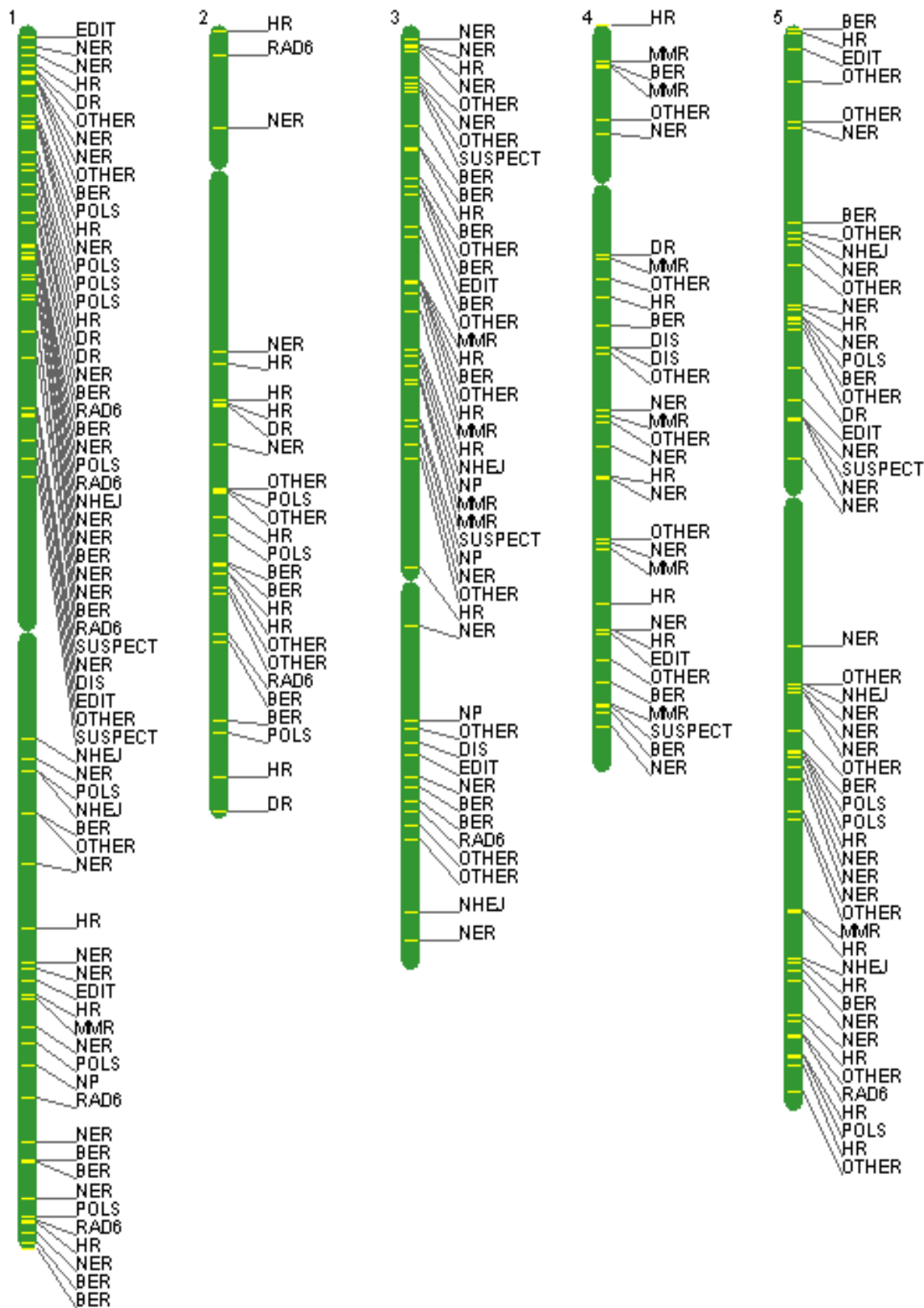
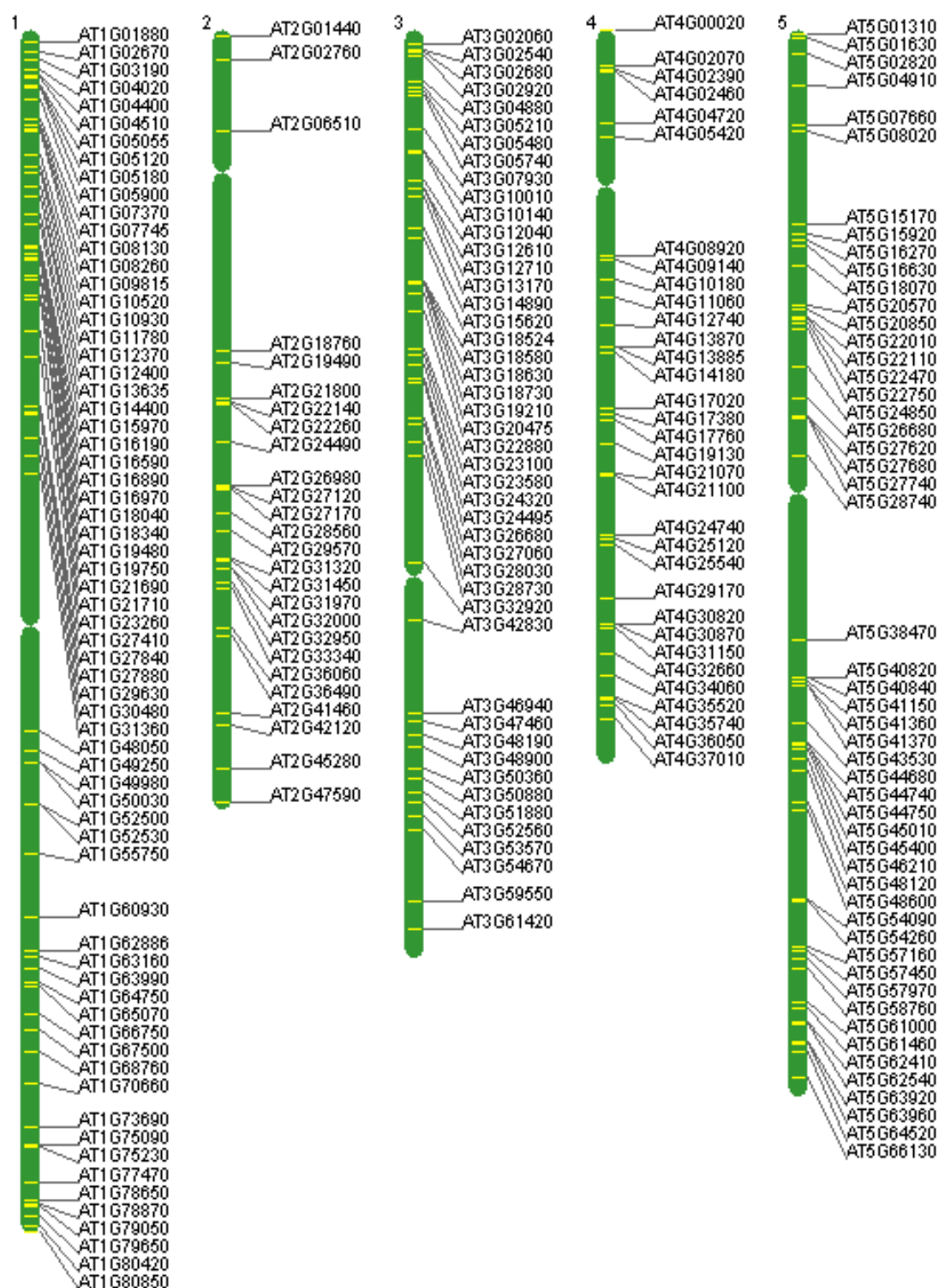




(a)



(b)

Additional file 4 Location of DNA repair and recombination genes on different chromosome of Arabidopsis by (a) their function in different pathway and (b) by their TAIR accession number