

The present invention relates to a method for selecting or identifying a *B. napus* plant having resistance to Phoma stem canker, such as resistance to fungal pathogen(s) *L. maculans* and/or *L. biglobosa*, comprising detecting in said *B. napus* plant, or part thereof (such as tissue or seed), the presence or absence of at least one marker which is on a chromosomal interval between SEQ ID No: 1 and SEQ ID No: 10. The present invention also provides kits of primers for identifying a *B. napus* plant having resistance to Phoma stem canker, such as resistance to fungal pathogen(s) *L. maculans* and/or *L. biglobosa*. Also provided is the use of a marker as defined herein, or a sequence selected from SEQ ID No: 1-10, or a kit of primers according to the present invention to select a *B. napus* plant having resistance to Phoma stem canker, such as resistance to fungal pathogen(s) *L. maculans* and/or *L. biglobosa*.