100
90 TraesCS5A02G397100
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79.1
100 At2g21480
At4g39110
97.9
100 TraesCS4A02G441600
84.6 TraesCS7A02G055000
TraesCS7D02G050100
100 At5g59700
AtHERCULES_At3g46290
100 TraesCS4B02G201600
73.6 TraesCS4A02G102900
TraesCS4D02G202300
100 TraesCS3A02G308100
TraesCS3D02G134400
TraesCS3B02G151200
100 TraesCS1B02G130300
51.4 TraesCS1A02G108100
TraesCS1D02G110900
100 TraesCS7B02G241900
79.9 TraesCS7A02G340700
TraesCS7D02G338800
83.5
78.1
100 TraesCS3A02G538300
74.3 TraesCS3B02G603800
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100 TraesCS5A02G197000
TraesCS5D02G194500
99.9
TraesCS5B02G186300
100 TraesCS5B02G186400
100 TraesCS5D02G193700
100 TraesCS5A02G197300
99.7 TraesCS5A02G197200
TraesCS5D02G193800
100 TraesCS4B02G389700
TraesCSU02G123800
TraesCS6A02G001900
TraesCS6D02G003800
100 TraesCS6A02G001800
76.2 TraesCS6B02G006600
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57.6 TraesCS6B02G006800
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TraesCS3B02G366500
86.2 TraesCS3A02G335700
100 TraesCS3B02G366600
90 TraesCS3D02G328800
52.4
TraesCS3A02G335200
60.4 100 TraesCS3A02G335400
100 TraesCS3B02G366100
TraesCS3D02G328400
58.8 99.8 TraesCS3A02G335600
TraesCS3D02G328700
90.2 98.1 TraesCS3B02G366200
100 TraesCS3A02G335500
TraesCS3D02G328500
100 TraesCS5A02G082900
83.6 TraesCS5D02G095300
88.8 TraesCS5B02G089000
100
99.9
100
100

1.0

Figure S3 Expanded Neighbour-joining (NJ) tree based on the wheat (T. aestivum) and Arabidopsis protein sequences containing both predicted kinase-like (PF07714) and malectin-like (PF12819) domains. The numbers indicate the NJ bootstrap values for 1000 replicates. The protein name in blue indicates the Arabidopsis Feronia (AtFER). The names in red indicate the wheat sequences closely related to AtFER (TaFER1 and TaFER2). The names in black are the other members of Arabidopsis and wheat Feronia families.