

Additional File 1: Primers used for TILLING screen

Gene	Domain/Chr	Primer Sequence
<i>WKS1</i>	Kinase	AAGAATAAAATTGGTTTTTAATTTTCGGAAAAGGTC ATGGAGGTGTTGGCTTTTGTGAGATGTTT
	START	TGCTGGAACCTTGGAGCCATATAAAAATGC TGAACGGAGGGAGTGTTAACTAGCATAGG
<i>WKS2</i>	Kinase	GCCATGAACAACGAACAATCACACGATA TAAGTTGTTACTCAGCCCCAGCGCAATAC
	START	TCTGCTCCCAGACCCACCTCATACTTAAA GCAAAAGAGAAAAATGTTAAGCAGCGGAAA
<i>SBEIIa</i> (6x)	2A	ACCCGCAGGTAAATTTAAAGCTTCAGT GTTACATTATACCGAGCTATTGCAATAACATTAGA
	2B	CCCGCAGGTAAATTTAAAGCTTT <u>G</u> CTATG ¹ TCGAAATGCAATGGAAATCTTAGAGACAAAAA
	2D	TACCCGCAGGTAAATTTAAAGC <u>G</u> TTATT ¹ TCTTACAGAAGACAAAAGAACAAGCAGACAA
<i>SBEIIa</i> (4x)	2A	ACCCGCAGGTAAATTTAAAGCTTCAGT TGCATCCTAAGTGGGAAACC
	2B	CCCGCAGGTAAATTTAAAGCTTT <u>G</u> CTATG ¹ TCGAAATGCAATGGAAATCTTAGAGACAAAAA
<i>SBEIIb</i> (4x)	2A	TGCAATGTGAGCTACCGATAAG GACTGAAATGACACTATTCCAGCA
	2B	TGGACGGGTGTTCTTTTACC AGTTACATCAAGTTAAACATTTGACCA

¹ Bold underlined bases indicate positions of introduced mismatches with respect to the genomic sequence.