

**Supporting Information Table S3 Information of 33 single copy SSR fragments between P15 and P17**

SSR Fragments	Name <sup>a</sup>	Motif	Repeat Numbers	Fragment Position	Forward Primers (5'-3')	Reverse Primers (5'-3')	Marker Position	P
1		AT	5	25937249-25937558				
7		AT	5	26073544-26073853	TTCTTTCTCCAAATTGCTGACG	TTCTTGCTCGGCTGGGAC	26073626-26073816	
<b>23</b>	<b>P19</b>	<b>TA</b>	<b>5</b>	<b>26216846-26217155</b>	<b>CGAGAGAAAGGGCTGCG</b>	<b>CATATGGAATGGTATTAAGCACG</b>	<b>26216888-26217144</b>	<b>P</b>
24		CGG	6	26218190-26218507	TAATCCCTAACTACTACGTACTGCC	GTCGGTCTCGTCGAACTGG	26218219-26218496	
<b>45</b>	<b>P20</b>	<b>TA</b>	<b>5</b>	<b>26426522-26426831</b>	<b>GCAGGATGGCAATTTAGTG</b>	<b>TATTTTCGTGGTGTATATGTTTC</b>	<b>26426585-26426786</b>	<b>P</b>
56		GC	5	26655800-26656109				
<b>57</b>	<b>P21</b>	<b>TA</b>	<b>5</b>	<b>26659190-26659499</b>	<b>CCACGCAGTAGGGCTTCATA</b>	<b>AATTTCCGGCAGAGGGTTCTC</b>	<b>26659258-26659473</b>	<b>P</b>
58		TA	5	26659345-26659654	GAGAACCCTCTGCCGA	TAGATGGGTAGTCATACAGCA	26659454-26659561	
68		AG	5	26793157-26793466	ATGGCACTGCTCGGCTG	TTCCTGTCGTCGCTATCTCC	26793280-26793384	
72		TA	5	26877575-26877884				
73		TATC	5	26878940-26879259				
74		TA	7	26878960-26879273				
78		AC	7	26903515-26903828				
79		AT	6	26933587-26933898				
81		TCC	12	26934907-26935242				
82		GC	5	26935036-26935345				
83		TA	5	26936239-26936548				
84		AT	6	26941152-26941463				
87		TA	5	26973319-26973628				
90		CG	6	26982527-26982838				
91		TCC	5	26982917-26983231				

92		AT	30	26985743-26986102				
93		TA	5	26987193-26987502				
94		TC	5	26991852-26992161	TTAGTCCCAAGAAACCAAACAG	CCAAATGAATCGCCACAAA	26991948-26992091	
101		AC	5	27082649-27082958	GTCGTTGGGTGCGGTTCA	GGCAGGAGGTCAGCGTCA	27082719-27082893	
117		TGC	5	27105349-27105663	AGTGGAAGGACGGATGA	CGAGAAGAGCAGGGTGTA	27105591-27105609	
123		CT	5	27175221-27175530				
124		AT	5	27180353-27180662	GGGTGGTGGATTCTTGGGC	AGTCAAAAAGGGTCCGGTG	27180396-27180609	
127		TA	8	27213489-27213804				
130		TA	28	27242417-27242772				
131		CA	5	27245430-27245739				
133		GA	6	27270114-27270425				
135		AT	21	27272780-27273121				

<sup>a</sup> Marker name used in map-based cloning of *mn2-m1* in this study. P, Polymorphic both between the two parents and the two DNA pools.