



Appendix A Examples of amplification patterns of of *YrZM175* linked polymorphic markers *Xwmc382* (A) and *Xgwm636* (B) from two parents, two DNA bulks, and selected plants from Lunxuan 987/Zhongmai 175 F₂ population by 6% denaturing polyacrylamide gels. *M* DNA ladder, *Pr* resistant parent Zhongmai 175, *Ps* susceptible parent Lunxuan 987, *Br* resistant bulk, *Bs* susceptible bulk, *R* resistant F₂ individual plant, *S* susceptible F₂ individual plant.

Appendix B Amplification results of linked markers with *YrZM175* in susceptible plants of F₂ population

Marker	Susceptible plants of F ₂ population		
	A ^a	H ^b	B ^c
<i>URIC/LN2</i>	9	42	41
<i>Kasp2A_4</i>	5	6	81
<i>Kasp2A_3</i>	8	1	83
<i>Xbarc124</i>	8	3	81
<i>Xwmc407</i>	7	1	84
<i>Xwmc382</i>	8	0	84
<i>Xgwm636</i>	2	6	84
<i>BE404841</i>	10	0	82
<i>Xwmc388</i>	14	4	74

^a A homozygous for the allele from Zhongmai 175

^b H heterozygous for the allele from Zhongmai 175 and Lunxuan 987

^c B homozygous for the allele from Lunxuan 987