

Appendix A. Molecular characteristics of *waxy* gene mutations in different crops

Name	Latin name	Alleles	Mutation site	Reference
Rice	<i>Oryza sativa</i>	<i>wx</i>	23bp repeat in exon 2	Wanchana et al. (2003)
		<i>wx</i>	Insertion of <i>Dasheng</i> transposon of 7764bp in exon 9	Mikami et al. (2008)
Barley	<i>Hordeum vulgare</i>	<i>wax</i>	403bp deletion of 5'-non-coding region	Domon et al. (2002), Patron et al.(2002)
Foxtail millet	<i>Setaria italica</i>	<i>IVa</i>	Transposon insertion of 5589bp in intron 1	Fukunaga et al.(2002), Kawase et al. (2005)
		<i>Ivb</i>	Transposon insertion of 5614bp in intron 1	Kawase et al. (2005)
		<i>V</i>	Transposon insertion of 7674bp in exon 3	Fukunaga et al. (2002), Kawase et al. (2005)
		<i>VII</i>	Transposon insertion of 9331bp in exon 10	Fukunaga et al.(2002), Kawase et al. (2005)
		<i>VIII</i>	Transposon insertion of 1479bp in intron 12	Kawase et al. (2005)
		<i>X</i>	Transposon insertion of 936bp in exon 3	Kawase et al. (2005)
Broomcorn millet	<i>Panicum miliaceum</i>	<i>S₁₅</i>	15bp deletion in exon 10	Hunt et al. (2010)
		<i>L_Y</i>	Substitution of G/A in exon 7	Hunt et al. (2010)
		<i>L_f</i>	Deletion of A in exon 9	Hunt et al. (2010)
Sorghum	<i>Sorghum bicolor</i>	<i>wx^a</i>	Insertion greater than 4Kb in exon 3	Sattler et al. (2009)
		<i>wx^b</i>	Substitution of G/T in exon 8	Lu et al. (2013)
		<i>wx^c</i>	Deletion of G at 5'- splice site of intron 9	Lu et al. (2013)
		<i>wx^d</i>	Substitution of G/C at 3'-splice site of intron 10	Kawahigashi et al. (2013), Lu et al. (2013)
Coix	<i>Coix lacryma-jobi</i>	<i>waxy</i>	275bp deletion in exon 10-11	Hachiken et al. (2012)
Maize	<i>Zea mays</i>	<i>wx-D7</i>	30 bp deletion in exon 7	Fan et al. (2009), Bao et al. (2012)
		<i>wx-D10</i>	15 bp deletion in exon 10	Fan et al. (2009), Bao et al. (2012)
		<i>wx-Cin4</i>	<i>Cin4</i> transposon insertion of 466bp in exon 6	Wu et al. (2017)
		<i>wx-124</i>	<i>124</i> transposon insertion of 116bp in exon 7	Wu et al. (2017)
		<i>wx-Reina</i>	<i>Reina</i> transposon insertion of 5412bp in intron 10	Wu et al. (2019)
		<i>wx-Xuanwei</i>	<i>Xuanwei</i> transposon insertion of 4893bp in exon 14	Wu et al. (2020)
Wheat	<i>Triticum aestivum</i>	<i>Wx-A1b</i>	23bp deletion and 4bp insertion in the 5'-splicing site of intron 2	Vrinten et al. (1999)
		<i>Turkey Wx-A1</i>	Transposon insertion of 173bp in exon 4	Saito et al. (2004)
		<i>Wx-B1b</i>	Deletion included the entire coding region	Vrinten et al. (1999)
		<i>Wx-B1n</i>	Transposon insertion of 2178 bp in exon 10	Zhang et al. (2017)
		<i>Wx-D1b</i>	588bp deletion and 12bp insertion in intron 12	Vrinten et al. (1999)