

Table S1 SNPs of *Glyma.09G171200* DNA sequences

Location	69	130	136	185	199	205	221	230	231	249	251	252	258	314	336	366
Williams 82	G	G	A	C	G	G	G	C	G	G	A	T	G	A	A	C
Female	C	A	T	A	T	A	T	A	T	C	C	A	C	C	G	A
Male	G	G	A	C	G	G	G	C	G	G	A	T	G	A	A	C
Location	381	411	445	447	461	478	529	582	591	629	630	655	671	672	691	766
Williams 82	A	T	G	T	A	A	G	T	T	A	A	A	A	T	T	A
Female	G	G	A	C	G	C	A	C	C	T	G	G	C	C	G	T
Male	A	T	G	T	A	A	G	T	T	A	A	A	A	T	T	A
Location	776	796	908	970	971	974	978	985	1119	1334	1395	1396	1407	1409	1446	
Williams 82	G	T	A	G	G	T	G	A	T	T	A	T	A	C	T	
Female	A	C	G	A	A	G	C	G	C	A	T	G	C	T	C	
Male	G	T	A	G	G	T	G	A	T	T	A	T	A	C	T	