



Supplementary Figure 1. Map describing the location of experimental sites. Augusto Pestana/RS (Red); Boa Vista do Cadeado/RS (Orange); Eugênio de Castro/RS (Light Green) and; Ijuí/RS (Blue).

Supplementary Table 1. Description of the genealogy of soybean F₂ segregating populations.

Maternal Parent	Paternal Parent	F ₁	F ₂
DM 7.0 BMX MAGNA RR	FUNDACEP 66 RR	169	IRC 001
DM 5.8 BMX APOLO RR	FUNDACEP 66 RR	173	IRC 002
DM 7.0 BMX MAGNA RR	MONASCA RR	153	IRC 003
ROOS CAMINO RR	FPS PARANAPANEMA RR	132	IRC 005
DM 5.8 BMX APOLO RR	MAR.M4	124	IRC 007
BMX POTÊNCIA	MAR.M4	80	IRC 011
FPS NETUNO RR	DM 5.8 BMX APOLO RR	152	IRC 012
DM 7.0 BMX MAGNA RR	DM 5.8 BMX APOLO RR	122	IRC 013
FPS JÚPITER RR	MONASCA RR	176	IRC 017
TMG 7062 RR	6700 RR	204	IRC 021
6700 RR	BMX ATIVA RR	195	IRC 022
6700 RR	5106 IPRO	193	IRC 023
MASSAL	MASSAL	MAR.M2 C	IRC 025
MASSAL	MASSAL	MAR.M3 V	IRC 026
MASSAL	MASSAL	MAR.M4	IRC 027
MASSAL	MASSAL	MAR.M5 TP	IRC 028
BMX FORÇA RR	MAR.M4	239	IRC 030
NS 5958 RR	MAR.M2	250	IRC 031
DM 7.0 BMX MAGNA RR	NS 5909 RR	220	IRC 032
MAR.M4	NS 5909 RR	235	IRC 033
NS 5958 RR	6700 RR	224	IRC 034
BMX FORÇA RR	MAR.M4	216	IRC 035
DM 5.8 BMX APOLO RR	TMG 7166 RR	248	IRC 036
NS 5909	MAR.M4	223	IRC 037
6700 RR	MAR.M3	212	IRC 038
TMG 7166 RR	NS 5909 RR	255	IRC 039
BMX TURBO RR	TMG 7166 RR	256	IRC 040
6968 6968	ROOS AVACE DM 5.8	345+413	IRC 042
DM 5.8	DM 5.9	415	IRC 043
BMX TURBO RR	9471 IPRO	390	IRC 044
5855	DM 5.9	341	IRC 046
TMG 7166 RR	DM 5.9	397	IRC 047
ROOS AVACE	M 5892	377	IRC 048
TMG 7166 RR	DM 5.9	397	IRC 049
BMX POTÊNCIA RR	NS 5909 RR	365	IRC 050
NS 6209	M 5892	351 MI	IRC 051
6410 IPRO	1564 IPRO	531	IRC 052
SYN 1561 IPRO	M 6120 IPRO	569	IRC 054
TMG 7062 RR	BMX FIBRA IPRO	526	IRC 057