Table S1 Origin, maturity grouping and sequence depth of the soybean NAM parental genotypes assessed in this study (adapted from Stupar and Specht, 2013).

NAM Parent	Origin	NAM Population	Maturity	Sequence Coverage (Mapped Reads)	Estimated genome coverage
IA3023	Iowa State Univ.	Universal Parent	III	300645835	30.8
TN05-3027	Univ. of Tenn.	NAM 02	V	56222117	5.8
4J105-3-4	Purdue Univ.	NAM 03	III	61126856	6.3
5M20-2-5-2	Purdue Univ.	NAM 04	III	41247231	4.2
CL0J095-4-6	Purdue Univ.	NAM 05	III	48989486	5.0
CL0J173-6-8	Purdue Univ.	NAM 06	III	32994738	3.4
HS6-3976	Ohio State	NAM 08	III	43816809	4.5
Prohio	Ohio State Univ.	NAM 09	III	50197079	5.1
LD00-3309	Univ. of Illinois	NAM 10	IV	64726710	6.6
LD01-5907	Univ. of Illinois	NAM 11	IV	29287082	3.0
LD02-4485	Univ. of Illinois	NAM 12	III	38695512	4.0
LD02-9050	Univ. of Illinois	NAM 13	IV	31217207	3.2
Magellan	Univ. of Missouri	NAM 14	IV	19442222	2.0
Maverick	Univ. of Missouri	NAM 15	IV	29424567	3.0
S06-13640	Univ. of Missouri	NAM 17	IV	28792173	3.0
NE3001	Univ. of Nebraska	NAM 18	III	43531838	4.5
Skylla	Mich. State Univ.	NAM 22	III	34414411	3.5
U03-100612	Univ. of Nebraska	NAM 23	II	75305879	7.7
LG03-2979	USDA-ARS	NAM 24	III	69257822	7.1
LG03-3191	USDA-ARS	NAM 25	IV	59971468	6.2
LG04-4717	USDA-ARS	NAM 26	III	69257822	7.1
LG05-4292	USDA-ARS	NAM 27	IV	56823041	5.8
LG05-4317	USDA-ARS	NAM 28	IV	45144887	4.6
LG05-4464	USDA-ARS	NAM 29	III	47400111	4.9
LG05-4832	USDA-ARS	NAM 30	III	47797640	4.9
LG90-2550	USDA-ARS	NAM 31	III	26961469	2.8
LG92-1255	USDA-ARS	NAM 32	II	46875996	4.8
LG94-1128	USDA-ARS	NAM 33	II	29801583	3.1
LG94-1906	USDA-ARS	NAM 34	II	41179654	4.2
LG97-7012	USDA-ARS	NAM 36	III	29199662	3.0
LG98-1605	USDA-ARS	NAM 37	III	26685064	2.7
LG00-3372	USDA-ARS	NAM 38	III	35159242	3.6
LG04-6000	USDA-ARS	NAM 39	IV	34338365	3.5
PI 398.881	South Korea	NAM 40	III	48432038	5.0
PI 427.136	South Korea	NAM 41	III	61985465	6.4
PI 437.169B	Russia	NAM 42	II	66818192	6.9
PI 507.681B		NAM 46	II	50931853	5.2
PI 518.751	Serbia	NAM 48	II	72854403	7.5
PI 561.370	China	NAM 50	III	67853683	7.0
PI 404.188A	China	NAM 54	II	57653141	5.9
PI 574.486	China	NAM 64	II	36042594	3.7
Williams 82-ISU-01		Reference Genome	III	133013600	13.6