

**Table S1 Genotypic identification of 113 nature pepper accessions by KASP**

Variety Name	Fruit color	Type	Genotype	Variety Name	Fruit color	Type	Genotype
P114	White	Landrace	AA	P171	White	Improved	AA
P115	White	Landrace	AG	P172	White	Improved	AG
P116	White	Landrace	AA	P173	White	Improved	AA
P117	White	Landrace	AG	P174	Green	Improved	AG
P118	White	Improved	AA	P175	Green	Improved	GG
P119	White	Landrace	AA	P176	Green	Improved	GG
P120	White	Landrace	AA	P177	Green	Improved	GG
P121	White	Improved	AG	P178	Green	Improved	GG
P122	White	Landrace	AA	P179	Green	Improved	AG
P123	White	Landrace	AA	P180	Green	Improved	AG
P124	White	Landrace	AA	P181	Green	Improved	AG
P125	White	Improved	AG	P182	Green	Improved	GG
P126	White	Improved	AG	P183	Green	Landrace	GG
P127	White	Improved	AA	P184	Green	Improved	GG
P128	White	Improved	AA	P185	Green	Improved	GG
P129	White	Improved	AG	P186	Green	Landrace	GG
P130	White	Landrace	AA	P187	Green	Improved	GG
P131	White	Improved	AG	P188	Green	Landrace	AG
P132	White	Improved	AA	P189	Green	Landrace	AG
P133	White	Improved	AA	P190	Green	Improved	AG
P134	White	Landrace	AG	P191	Green	Landrace	GG
P135	White	Improved	AA	P192	Green	Improved	AG
P136	White	Improved	AG	P193	Green	Landrace	AG
P137	White	Improved	AA	P194	Green	Improved	GG
P138	White	Improved	AA	P195	Green	Landrace	AG
P139	White	Landrace	AA	P196	Green	Improved	GG
P140	White	Improved	AA	P197	Green	Landrace	GG
P141	White	Improved	AA	P198	Green	Improved	GG
P142	White	Landrace	AA	P199	Green	Improved	GG
P143	White	Landrace	AA	P200	Green	Improved	GG
P144	White	Landrace	AA	P201	Green	Improved	GG
P145	White	Improved	AA	P202	Green	Improved	GG
P146	White	Landrace	AG	P203	Green	Improved	GG
P147	White	Landrace	AG	P204	Green	Improved	GG
P148	White	Improved	AA	P205	Green	Landrace	GG
P149	White	Landrace	AA	P206	Green	Improved	GG
P150	White	Landrace	AA	P207	Green	Landrace	AG
P151	White	Improved	AA	P208	Green	Landrace	GG
P152	White	Landrace	AA	P209	Green	Improved	GG
P153	White	Improved	AA	P210	Green	Landrace	GG
P154	White	Improved	AA	P211	Green	Landrace	GG
P155	White	Improved	AA	P212	Green	Improved	GG
P156	White	Improved	AA	P213	Green	Landrace	GG
P157	White	Landrace	AA	P214	Green	Landrace	GG
P158	White	Improved	AG	P215	Green	Improved	GG
P159	White	Improved	AA	P216	Green	Landrace	GG
P160	White	Improved	AA	P217	Green	Improved	GG
P161	White	Improved	AA	P218	Green	Improved	GG
P162	White	Landrace	AA	P219	Green	Landrace	GG
P163	White	Improved	AA	P220	Green	Improved	GG
P164	White	Improved	AA	P221	Green	Landrace	GG
P165	White	Improved	AA	P222	Green	Landrace	GG
P166	White	Landrace	AA	P223	Green	Landrace	GG
P167	White	Improved	AA	P224	Green	Improved	GG
P168	White	Landrace	AA	P225	Green	Landrace	GG
P169	White	Landrace	AA	P226	Green	Landrace	GG
P170	White	Improved	AA				

Improved: Improved pepper varieties developed through breeding techniques.