

Table S1. List of common bean germplasm analysed, sample codes, seed features, product type, and phaseolin pattern.

Number	Working Acc. number	Collection location (Italian region)	Common name	Seed shape	Seed colour (pattern color)	Seed coat pattern
1	PH9802	Gravina (Apulia)	Fagiolino	oval	whitish	absent
2	PH9803	Nardò (Apulia)	Fagiolo da cucina	kidney	white	absent
3	PH5203	Castrignano (Apulia)	Fagioli napoletani	kidney	whitish	absent
4	PH8205	Supersano (Apulia)	Cannellini napoletani	kidney	white	absent
5	PH9	Ascoli Satriano (Apulia)	Tondino	oval	white	absent
6	PH3	Faeto (Apulia)	Faeto	oval	whitish	absent
7	PH18	Gradoli (Latium)	Gradoli	oval	whitish	absent
8	PH22	Pettineo (Sicily)	Carrubara	kidney	black	absent
9	PH8601	Deliceto (Apulia)	Fagiuline	kidney	light brown (brown)	mottled
10	PH5106	Putignano (Apulia)	Fafodde	oval/cuboid	whitish	absent
11	PH3106	Polignano (Apulia)	Cannellino	cuboid	white	absent
12	PH8003	Nardò (Apulia)	Fagiolo napoletano	kidney	white	absent
13	PH0303	Torre Guaceto (Apulia)	Fasule	kidney	white	absent
14	PH7210	Alezio (Apulia)	Fagioli paesani	cuboid	white	absent
15	PH044	Monteleone (Apulia)	Monti Dauni	oval	whitish	absent
16	PH046	Panni (Apulia)	Mangiatutto	oval	whitish	absent
17	PH4602	Altamura (Apulia)	Piattella	kidney	white	absent
18	PH20	Baragiano (Basilicata)	Corno di capra	kidney	pale brown (maroon)	striped
19	PH4	Pratomagno (Tuscany)	Zolfino	oval	pale yellow	absent
20	PH24	Accettura (Basilicata)	Locale di Accettura	kidney	dark brown	absent
21	PH26	market variety	Mangiatutto Sx015	cylindrical	white	absent
22	PH27	market variety	Mangiatutto Mx200	cylindrical	cream (brown)	speckled
23	PH28	market variety	Saporro	cylindrical	white	absent
24	PH047	Anzano (Apulia)	Mangiatutto	cylindrical	cream	absent
25	PH17	Saluggia (Piedmont)	Saluggia	kidney	beige (red)	striped
26	PH25	Scicli (Sicily)	Cosaruciaru	kidney	whitish (brown)	around hilum
27	PH33	market variety	Marconi nero (Starozagorski)	oval	black	absent
28	PH8	market variety	Cannellino	cylindrical	whitish	absent

29	PH2	Villata (Piedmont)	Villata	cylindrical	brown (maroon)	striped
30	PH5	Sarconi (Basilicata)	Verdolino	oval	yellow (brown)	around hilum
31	PH11	Sarconi (Basilicata)	Ciuoto	oval	light brown (red)	striped
32	PH12	Sarconi (Basilicata)	Tabacchino	oval	brown	absent
33	PH10	Sarconi (Basilicata)	Riso	round	whitish	absent
34	PH1	Cuneo (Piedmont)	Billò	cuboid	brown (maroon)	striped
35	PH13	Polizzi (Sicily)	Badda nero	oval	white (black)	bicolor
36	PH2201	Fasano (Apulia)	Fasule	oval/cuboid	pale yellow	absent
37	PH4603	Altamura (Apulia)	Ciammarruccoli	oval/cuboid	beige (brown)	striped
38	PH6	Rotonda (Basilicata)	Poverello di Rotonda	round	white	absent
39	PH16	Sarconi (Basilicata)	Nasieddu	oval	white (black)	around hilum
40	PH19	Oppido Mamertino (Calabria)	Vaianelli	cuboid	beige (brown)	mottled
41	PH14	Sarconi (Basilicata)	Tuvagliedda	oval	white (brown)	striped bicolor
42	PH29	Sarconi (Basilicata)	Tuvagliedda rossa	oval	white (maroon)	spotted bicolor
43	PH045	Panni (Apulia)	Fagiolino rosso	round	dark red	absent
44	PH7	Castell'Umberto (Sicily)	Drià	oval	pale brown (brown)	mottled
45	PH31	Sarconi (Basilicata)	Maruchedda	cuboid	beige (brown)	striped
46	PH15	Sarconi (Basilicata)	San Michele	round/oval	red	absent
47	PH32	Sarconi (Basilicata)	Riso giallo	round	whitish	absent
48	PH21	Sinagra (Sicily)	Monaco	oval/cuboid	whitish (mottled brown)	around hilum
49	PH30	Sarconi (Basilicata)	Munachedda	oval	white (black)	spotted bicolor
50	PH4606	Altamura (Apulia)	Pezzati	oval	white (beige)	striped bicolor

Product type	Phaseolin pattern
snap bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
snap bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	S
snap bean	S
dry bean	S
dry bean	S
dry bean	S
dry bean	C
snap bean	T
snap bean	T
snap bean	T
snap bean	T
dry bean	T
dry bean	T
snap bean	T
dry bean	T

dry bean	C
dry bean	T
dry bean	T
dry bean	T
dry bean	C
dry bean	C
dry bean	C
dry seed	C
dry bean	C
dry bean	C
dry bean	T
dry bean	C
dry bean	T
dry bean	T
snap bean	C
dry bean	C
snap/dry bean	C
dry bean	T
snap bean	T
dry bean	C
dry bean	C
dry bean	T