

جدول ضمیمه ۱. شماره و شجره لاین و ژنوتیپ‌های گندم دوروم مورد استفاده

Supplementary table 1. Number and pedigree of durum wheat lines and genotypes used

No.	Variety / Line	Origin
G1	LOCAL CHECK (Dehdasht)	Iran
G2	ADAMAR_15//ALBIA_1/ALTAR 84/3/SNITAN/4/SOMAT_4/INTER_8/5/SOOTHY_9/ RASCON_37/11/CANELO_9.1/SNITAN/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/ RUFO/4/ FNFOOTCDSS08Y00337S-099Y-014M-19Y-2M-0Y	CIMMYT
G3	D86135/ACO89//PORRON_4/3/SNITAN/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/ RUFO/4/FNFOOT/11/CANELO_8//SORA/2*PLATA_12/12/TADIZ/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTCDSS08Y00433S- 099Y-016M-26Y-4M-0Y	CIMMYT
G4	SOOTHY_9/RASCON_37//STORLOM/8/RISSA/GAN//POHO_1/3/PLATA_3//CREX/ALLA*2/7/EUDO//CHEN_1/TEZ/3/TANTLO_1/5/CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/FNFOOT/6 /MOJO/KITTI/11/SOOTHY_9/RASCON_37//WODUCK/CHAM_3/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA- D/5/AVO/HUCDSS08Y00716T-0TOPB-099Y-010M-27Y-3M-0Y	CIMMYT
G5	CBC 509 CHILE/YEBAS_8//DUKEM_12/2*RASCON_21/11/CANELO_9.1/SNITAN/10/ PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/ THKNEE_11/9/ CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/FNFOOTCDSS08Y00237S-099Y-020M-24Y-3M-0Y	CIMMYT
G6	CBC 509 CHILE/SOMAT_3.1/3/RASCON_37/TARRO_2//RASCON_37/5/KOFA/4/ DUKEM_1//PATKA_7/YAZI_1/3/PATKA_7/YAZI_1CDSS09Y00024S-099Y-020M-8Y-0M- 04Y-0B	CIMMYT
G7	MOHAWK/4/DUKEM_1//PATKA_7/YAZI_1/3/PATKA_7/YAZI_1/6/PLATA_6/GREEN_17/3/CHEN/AUK//BISU*2/5/PLATA_3//CREX/ALLA/3/SOMBRA_20/4/SILVER_14/M OEWECDSS09Y00029S-099Y-020M-16Y-0M-04Y-0B	CIMMYT
G8	1A.1D 5+1-06/3*MOJO//RCOL/4/ARMENT//SRN_3/NIGRIS_4/3/CANELO_9.1/9/ENTE/ MEXI_2//HUI/4/YAV_1/3/LD357E/2*TC60//JO69/5/BISU/6/RYP26_2/7/SNITAN/8/SOMAT_4/INTER_8/10/BCRIS/BICUM//LLARETA INIA/3/DUKEM_12/2*RASCON_21CDSS09Y00913 T-099Y-014M-16Y-0M-04Y-0B	CIMMYT
G9	YAVAROS 79CM9799-126M-1M-5Y-0M	CIMMYT
G10	ALTAR 84CD22344-A-8M-1Y-1M-1Y-2Y-1M-0Y	CIMMYT
G11	JUPARE C 2001CD91Y636-1Y-040M-030Y-1M-0Y-0B-1Y-0B-0MEX	CIMMYT
G12	1A.1D 5+1-06/3*MOJO//RCOL/4/ARMENT//SRN_3/NIGRIS_4/3/CANELO_9.1/11/ SOOTHY_9/RASCON_37/3/SOOTHY_9/TARRO_1//AJAIA_2/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA- D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/FNFOOTCDSS08Y00333S-099Y-022M-11Y-3M-0Y	CIMMYT
G13	NASR 99/5/RASCON_33/TISOMA_2/3/CANELO_8//SORA/2*PLATA_12/4/SOMAT_4/ INTER_8 /6/BCR/GUEROU_1/3/MINIMUS_6/PLATA_16//IMMERCDS07B00661T- 0TOPY-099Y-029M-5Y-3M-0Y	CIMMYT
G14	C94.52/3/2*AJAIA_12/F3LOCAL(SEL.ETHIO.135.85)//PLATA_13/4/2*RASCON_37/2*TARRO_2/5/CBC 509 CHILE/SOMAT_3.1/3/RASCON_37/TARRO_2//RASCON_37CDSS09Y 00041S-099Y-048M-41Y-0M-04Y-0B	CIMMYT

Supplementary table 1. Continued

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G15	CBC 509 CHILE/6/ECO/CMH76A.722//BIT/3/ALTAR 84/4/AJAIA_2/5/KJOVE_1/7/AJAIA_12 / F3LOCAL(SEL.ETHIO.135.85)//PLATA_13/8/SOOTY_9/RASCON_37//WODUCK/CHAM_3/9/ALTAR 84/BINTEPE 85//CAMAYOCDSS09Y00209S-099Y-052M-36Y-0M-04Y-0B	CIMMYT
G16	CBC 509 CHILE/6/ECO/CMH76A.722//BIT/3/ALTAR 84/4/AJAIA_2/5/KJOVE_1/7/ AJAIA_12/F3LOCAL(SEL.ETHIO.135.85)//PLATA_13/8/SOOTY_9/RASCON_37//WODUCK/CHAM_3/9/STOT//ALTAR 84/ALD/3/THB/CEP7780//2*MUSK_4/6/ECO/CMH76A.722//BIT/3/ALTAR 84/4/AJAIA_2/5/KJOVE_1/7/RCDS09Y00216S-099Y-032M-2Y-0M-04Y-0B	CIMMYT
G17	GUAYACAN INIA/2*SNITAN/3/SOMAT_3/GREEN_22//2*RASCON_37/2*TARRO_2 CDSS09Y00241S-099Y-022M-10Y-0M-04Y-0B	CIMMYT
G19	ALTAR 84/STINT//SILVER_45/3/GUANAY/4/GREEN_14//YAV_10/AUK/5/SOMAT_4/ INTER_8/6/BCRIS/BICUM//LLARETA INIA/3/DUKEM_12/2*RASCON_21CDSS09Y00285S-099Y-027M-24Y-0M-04Y-0B	CIMMYT
G21	ALTAR 84/STINT//SILVER_45/3/GUANAY/4/GREEN_14//YAV_10/AUK/5/SOMAT_4/ INTER_8/6/SOMAT_3/GREEN_22//2*RASCON_37/2*TARRO_2CDSS09Y00286S-099Y-026M-24Y-0M-04Y-0B	CIMMYT
G23	GUAYACAN INIA/2*SNITAN/5/CMH85.797//CADO/BOOMER_33/4/ARMENT// SRN_3/NIGRIS_4/3/CANELO_9.1CDSS09Y00327S-099Y-041M-19Y-0M-04Y-0B	CIMMYT
G24	BCRIS/BICUM//LLARETA INIA/3/DUKEM_12/2*RASCON_21/5/SILK_3/ DIPPER_6/3/ACO89/DUKEM_4//5*ACO89/4/PLATA_7//ILBOR_1//SOMAT_3CDSS09Y00347S-099Y-020M-33Y-0M-04Y-0B	CIMMYT
G26	ALTAR 84/BINTEPE 85/3/STOT//ALTAR 84/ALD/4/POD_11/YAZI_1/5/VANRRIKSE_12/ SNITAN/6/SOOTY_9/RASCON_37//WODUCK/CHAM_3/7/YAV79/4/ARMENT//SRN_3/NIGRIS_4/3/CANELO_9.1/5/MINIMUS/COMB DUCK_2//CHAM_3/3/GREEN_19CDSS09Y00386S-099Y-058M-30Y-0M-04Y-0B	CIMMYT
G27	ALTAR 84/BINTEPE 85/3/STOT//ALTAR 84/ALD/4/POD_11/YAZI_1/5/VANRRIKSE_12/SNITAN/6/SOOTY_9/RASCON_37//WODUCK/CHAM_3/7/TOPDY_18/FOCHA_1//ALTAR 84/3/AJAIA_12/F3LOCAL(SEL.ETHIO.135.85)//PLATA_13/4/SOMAT_3/GREEN_22/5/ VRKS_3/3/AJAIA_12/F3LOCAL(SEL.ETHIO.135CDSS09Y00388S-099Y-047M-19Y-0M-04Y-0B	CIMMYT
G28	BCRIS/BICUM//LLARETA INIA/3/DUKEM_12/2*RASCON_21/10/ARAM_5/CALI//RASCON_37/3/PLATA_8/4/AJAIA_12/F3LOCAL(SEL.ETHIO.135.85)//PLATA_13/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTE/7/HUI/YAV79/8/POD_9/11/CBC 509 CHILE/6/ECO/CMH76A.722//BIT/3/ACDSS09Y00759T-099Y-033M-28Y-0M-04Y-0B	CIMMYT
G29	PLATA_7//ILBOR_1//SOMAT_3/3/CABECA_2/PATKA_4//ZHONG ZUO/2*GREEN_3/10/ 1A.1D 5+1-06/2*WB881//1A.1D 5+1-06/3*MOJO/3/SOOTY_9/RASCON_37/9/USDA595/3/ D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTE/7/HUI/YAV79/8/POD_9/11/CIRNO C 2008CDS09Y00762T-099Y-024M-19Y-0M-04Y-0B	CIMMYT
G30	PLATA_7//ILBOR_1//SOMAT_3/3/CABECA_2/PATKA_4//ZHONG ZUO/2*GREEN_3/5/ ARMENT//SRN_3/NIGRIS_4/3/CANELO_9.1/4/VITROMAX/6/SOOTY_9/RASCON_37//GUAYACAN INIACDSS09Y00763T-099Y-011M-26Y-0M-04Y-0B	CIMMYT
G31	POD_20//SULA/ACO89/3/SORA/2*PLATA_12//SOMAT_3/4/PATKA_4/THKNEE_9//CABECA_1/5/ARMENT//2*SOOTY_9/RASCON_37/4/CNDO/PRIMADUR//HAI-OU_17/3/ SNITAN/6/SOMAT_3/GREEN_22//2*RASCON_37/2*TARRO_2CDSS09Y00765T-099Y-018M-1Y-0M-04Y-0B	CIMMYT

Supplementary table 1. Continued

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G32	SNITAN/5/AJAIA_12/F3LOCAL(SELETHIO.135.85)/PLATA_13/3/SOMAT_3/4/SOOTY_9/RASCON_37/6/SNITAN/11/CANELO_9.1/SNITAN/10/PLATA_10/6/MQUE/4/USD A573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC //BUB/ RUFO/4/ FNFOOT/12/CBC 509CDSS09Y00771T-099Y-040M-4Y-0M-04Y-0B	CIMMYT
G33	SNITAN/5/AJAIA_12/F3LOCAL(SELETHIO.135.85)/PLATA_13/3/SOMAT_3/4/SOOTY_9/RASCON_37/6/SNITAN/11/CANELO_9.1/SNITAN/10/PLATA_10/6/MQUE/4/USD A573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC// BUB/RUFO/4/FNFOOT/12/CBC 509CDSS09Y00771T-099Y-040M-38Y-0M-04Y-0B	CIMMYT
G34	SILK_3/DIPPER_6/3/ACO89/DUKEM_4//5*ACO89/4/PLATA_7/ILBOR_1//SOMAT_3/6/SOMAT_3/PHAX_1//TILO_1/LOTUS_4/3/GUANAY/5/NETTA_4/DUKEM_12//RASC ON_19/3/SORA/2*PLATA_12/4/GREEN_18/FOCHA_1//AIRO_1/9/GUAYACAN INIA/GUANAY/8/ GEDIZ /FGO// GTA/3/SRN_1/4/TOTUS/5/ENTE/MCDSS09Y00907T-099Y-024M-14Y-0M-04Y-0B	CIMMYT
G35	SNITAN/5/AJAIA_12/F3LOCAL(SELETHIO.135.85)/PLATA_13/3/SOMAT_3/4/SOOTY_9/RASCON_37/6/SNITAN/7/SOMAT_3/PHAX_1//TILO_1/LOTUS_4/3/GUANAY/5/ NETTA_4/DUKEM_12//RASCON_19/3/SORA/2*PLATA_12/4/GREEN_18/FOCHA_1//AIRO_1/8/HUBEI//SOOTY_9/RASCON_37/3/2*SOOTY_9/CDSS09Y00911T-099Y-024M-26Y-0M-04Y-0B	CIMMYT
G36	D86135/ACO89//PORRON_4/3/SNITAN/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/FNFOOT/11/CANELO_8//SORA/2*PLATA_12/12/TADIZ/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTCDSS09Y00930T-099Y-031M-13Y-0M-04Y-0B	CIMMYT
G37	TARRO_1/2*YUAN_1//AJAIA_13/YAZI/3/SOMAT_3/PHAX_1//TILO_1/LOTUS_4/4/CANELO_8//SORA/2*PLATA_12/5/CBC 501 CHILE/GUANAY/4/CNDO/PRIMADUR//HAI-OU_17/3 /SNITAN /7/ALTAR 84/BINTEPE 85/3/STOT//ALTAR 84/ALD/4/POD_11/YAZI_1/5/VANR RIKSE_12/ SNITAN/6/SOOTY_9/RASCON_CDSS09Y00933T-099Y-023M-6Y-0M-04Y-0B	CIMMYT
G38	TRN//D21563/AA/3/BD2080/4/BD2339/5/RASCON_37/TARRO_2//RASCON_37/6/AUK/GUIL//GREEN/11/ALTAR 84 ALTO_1/RISSA/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/ YAV_1/6/ ARDENTE/7/HUI/YAV79/8/POD_9/10/SHAG_14/ANADE_1//KITTI_1/12/CIRNO C 2008CDSS09Y00939T-099Y-012M-19Y-0M-04Y-0B	CIMMYT
G39	MOHAWK/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTE/7/HUI/YAV79/8/POD_9/10/SOMAT_3.1//WODUCK/CHAM_3/5/AJAIA_16//HORA/JRO/3/GA N/4/ZAR/7/CHEN_11/POC//TANTLO/5/ENTE/MEXI_2//HUI/4/YAV_1/3/LD357E/2*TC60//JO69/6/FULVOUS_1/MFOWL_13/11/SOMAT_3/GRECDSS09Y00994T-099Y-020M-5Y-0M-04Y-0B	CIMMYT
G40	SINCHI/3/PF70354/ALD//MES/4/PATKA_7/YAZI_1/5/2*PATKA_7/YAZI_1/6/ADAMAR_15//ALBIA_1/ALTAR 84/3/SNITAN/7/ALBIA_1/ALTAR 84//RCOL/3/PLATA_6/GREEN_17/8/ SILK_3/ DIPPER_6/3/ACO89/DUKEM_4//5*ACO89/4/PLATA_7/ILBOR_1//SOMAT_3 CDSS08Y00583S-099Y-023M-7Y-0M-04Y-0B	CIMMYT
G41	CBC 509 CHILE/5/2*AJAIA_16//HORA/JRO/3/GAN/4/ZAR/6/SOOTY_9/RASCON_37// GUAYACAN INIA/10/COMARA//SOOTY_9/RASCON_37/3/2*AJAIA_12/F3LOCALSEL.ETHIO.135.85)/PLATA_13/9/USDA595/3/D67.3/RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTE/7/ HUI/YAV79/8/POD_9CDSS08B00133T-099Y-046M-1Y-0M-04Y-0B	CIMMYT
G42	ALTAR 84/STINT//SILVER_45/5/2*AJAIA_16//HORA/JRO/3/GAN/4/ZAR/6/SOMAT_4/ SILVER_1/4/STORLOM/3/RASCON_37/TARRO_2//RASCON_37/5/PATKA_4/PLATA_16/7/ALTAR 84/BINTEPE 85/3/STOT//ALTAR 84/ALD/4/POD_11/YAZI_1/5/VANRRIKSE_12/ SNITAN /6/SOOTY_9/RASCON_37//WODUCK/CCDSS08B00149T-099Y-056M-16Y-0M-04Y-0B	CIMMYT

Supplementary table 1. Continued

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G43	BAIRDS/KNIPACDSS09Y00400S-099Y-030M-19Y-0M-04Y-0B	CIMMYT
G44	ATIL/HELLER #1CMSS08B00996S-099B-099Y-23B-0Y	CIMMYT
G45	ATIL/BAIRDSCMSS08B01001S-099B-099Y-41B-0Y	CIMMYT
G46	PLATINUM/3/KNIPA/TAGUA//PLANETA/TRILECMSS08B01019S-099B-099Y-21B-0Y	CIMMYT
G47	ALTAR 84/STINT//SILVER_45/3/GUANAY/4/GREEN_14//YAV_10/AUK/5/SOMAT_4/ INTER_8/6/SOMAT_3/GREEN_22//2*RASCON_37/2*TARRO_2CDSS09Y00286S-099Y-026M-8Y-0M-04Y-0B	IRAN
G48	ADAMAR_15//ALBIA_1/ALTAR84/3/SNITAN/4/SOMAT_4/INTER_8/5/SOOTY_9/RASCON_37/11/CANELO_9.1/SNITAN/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/ RUFO/4/FNFOOTCDSS08Y00337S-099Y-014M-19Y-2M-0Y	CIMMYT
G49	D86135/ACO89//PORRON_4/3/SNITAN/10/PLATA_10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/CHEN/ALTAR 84/3/HUI/POC//BUB/ RUFO /4/FNFOOT/11/CANELO_8//SORA/2*PLATA_12/12/TADIZ/9/USDA595/3/D67.3/ RABI//CRA/4/ALO/5/HUI/YAV_1/6/ARDENTCDSS08Y00433S-099Y-016M-26Y-4M-0Y	CIMMYT
G50	SOOTY_9/RASCON_37//STORLOM/8/RISSA/GAN//POHO_1/3/PLATA_3//CREX/ALLA*2/7/EUDO//CHEN_1/TEZ/3/TANTLO_1/5/CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/ FNFOOT /6 /MOJO/KITTI/11/SOOTY_9/RASCON_37//WODUCK/CHAM_3/10/PLATA_10/6/MQUE/4/ USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUCDSS08Y00716T-OTOPB-099Y-010M-27Y-3M-0Y	CIMMYT
G51	CBC 509 CHILE/YEBAS_8//DUKEM_12/2*RASCON_21/11/CANELO_9.1/SNITAN/10/ PLATA _10/6/MQUE/4/USDA573//QFN/AA_7/3/ALBA-D/5/AVO/HUI/7/PLATA_13/8/THKNEE_11/9/ CHEN/ALTAR 84/3/HUI/POC//BUB/RUFO/4/FNFOOTCDSS08Y00237S-099Y-020M-24Y-3M-0Y	CIMMYT
G52	CBC 509 CHILE/SOMAT_3.1/3/RASCON_37/TARRO_2//RASCON_37/5/KOFA/4/ DUKEM_1// PATKA_7/YAZI_1/3/PATKA_7/YAZI_1CDSS09Y00024S-099Y-020M-8Y-0M-04Y-0B	CIMMYT
G53	MOHAWK/4/DUKEM_1//PATKA_7/YAZI_1/3/PATKA_7/YAZI_1/6/PLATA_6/GREEN_17/3/CHEN/AUK//BISU*2/5/PLATA_3//CREX/ALLA/3/SOMBRA_20/4/SILVER_14/M OEWECDSS09Y00029S-099Y-020M-16Y-0M-04Y-0B	CIMMYT
G54	1A.ID 5+1-06/3*MOJO//RCOL/4/ARMENT//SRN_3/NIGRIS_4/3/CANELO_9.1/9/ ENTE/MEX _2//HUI/4/YAV_1/3/LD357E/2*TC60//JO69/5/BISU/6/RYP26_2/7/SNITAN/8/SOMAT_4/INTER_8/10/BCRIS/BICUM//LLARETA INIA/3/DUKEM_12/2*RASCON_21 CDSS09Y00913T-099Y-014M-16Y-0M-04Y-0B	CIMMYT