

Supplementary Table S1 The passport of the tested genotypes and characteristics of environments.

Code	Pedigree
G1	Mehr cultivar (Check 1)
G2	Karoon /4/(D-13)Bgs/Dajia/L.1242/3/(L.B.IRAN/Una8271//Gloria'S'/3/Alm/Una80//....)
G3	(D10)Rhn-03//L.527/NK1272/ /(D-16)Bda/Rhn-03//ICB-107766
G4	(Salt-4) LB.Iran/Una 8271//Gloria"S"/Come"s"-11M/3/Kavir/4/Karoon
G5	(Salt-4)LB.Iran/Una 8271//Gloria"S"/Come"s"-11M/3/Kavir/4/(Salt12)ROHO/MAZORKA//TROMPILO
G6	(Salt-12)ROHO/MAZORKA//TROMPILO/3/Lignee 527/NK1272//JLB 70-63
G7	Lignee 527/NK1272//JLB 70-63/3/Zarjow
G8	KAROON/KAVIR//Rhodes'S'//Tb/Chzo/3/Gloria'S'/4/Zarjow
G9	KAROON/KAVIR//Rhodes'S'//Tb/Chzo/3/Gloria'S'/4/Karoon
G10	Bgs/Dajia/L.1242/3/(L.B.IRAN/Una8271//Gloria'S'/3/Alm/Una80//....)/4/Nimrooz
G11	(D-16)Bda/Rhn-03//ICB-107766/3/Yousef
G12	Deir Alla 106//Hem/Bc/3/Rihane"s"14/4/Lignee527/NK1272//JLB70-063/3/Barjouj
G13	Yousef*2/3/Np106/Minn14133-Gvaxduois//Gi10143
G14	D10*2/4/Productive/3/Roho//Alger/Ceres362-1-1
G15	D10*2/4/Productive/3/Roho//Alger/Ceres362-1-1
G16	Lignee 527/NK1272//JLB 70-63/5/CLN-B/80.5138//GLORIA-BAR/COPAL/3/ALISO/4/CABUYA/6/(D10)Rhn-03//L.527/NK1272
G17	Courlis/Rhn-03//Productive/3/Lignee 527/NK1272//JLB 70-63
G18	Comp.Cr229//As46/Pro/3/Srs/4/Express/5/Rhn-03*2/M83-194 Ras3*2/6/Lignee 527/NK1272//JLB 70-63
G19	26216/4/Arar/3/Mari/Aths*2//M-Att-73-337-1/5/Fajr30/6/Lignee 527/NK1272//JLB 70-63
G20	MBS-95-2 (Check 2)