

Table 4 The classification of wheat germplasm based on allelic combination and grain texture

Allelic combination at Pina/Pinb loci	Phenotype	Hardness index (Mean \pm Se)	Cultivars
<i>Pina-D1a/Pinb-D1a</i>	Soft	49.76 \pm 0.39	Atrak, Arg, Arvand mutant, Star, Akbari, Alamoot, Omid, Owhadi, Azar1, Azar2, Azadi, Roshan backcross vint., Roshan backcross Sp., Bam, Boolani, Bayat, Peptik, Darya, Rasad, Roshan, Zarrin, Syson, Sabalaan, Sardari, Sardari101, Soomali 3, Sistan, Shahpasand, Shahi, Shahriyar, Tabasi, Cross Alborz, Cross Falat, Hamoon, Karaj 2, Kouhdasht, Gaspard, Moqan 2, Mahdavi, Naz, Navid, Niknejad, Homa, Hirmand, MV-17, S -83- 3
<i>Pina-D1b/Pinb-D1a</i>	Hard	51.32 \pm 0.49	Alvand, Arta, Bahar (MV-79-7) Pishtaz, Tajan Dez, Rasool, Zagros, Sepahan, Shole, Shiraz, Shiroodi, Toos, Quds, Karaj 3, Karkhe, Kavir, Maroon, Marvdasht, Moqan 3, Verinak, DN11, Excalibur, GR, GS, Kukri, Weeble, WS-82-9
<i>Pina-D1a/Pinb-D1b</i>	Hard	50.83 \pm 0.48	Inia, Bezostaja, Rizhav, Qafqaz, Gascogen, Moqan1, Gladius
<i>Pina-D1b/Pinb-D1b</i>	Hard	52.00 \pm 0.38	Darab 2