

**Additional file 4.** GenBank accession numbers of the PRDM9 nucleotide sequences analyzed in this study.

KJ020105, GJ060462, KJ020104, XM\_010800686, XM\_010827492, XM\_005898352, XM\_006071966, XM\_013967328, XM\_012170292, XM\_010800307, XM\_005701126, XM\_012106207, XM\_012166124, XM\_010800305, XM\_005228505, XM\_012107055, XM\_005895060, XM\_010799571, XM\_010821607, XM\_012172886, XM\_013976867, XM\_004318593, XM\_007172595