

Genome-wide association study for growth in Pakistani dromedary camels using genotype-by-sequencing

Sajida Sabahat, Asif Nadeem, Rudiger Brauning, Peter C. Thomson and Mehar S. Khatkar

Supporting Table 2. GWAS significant associations detected in the present study (Pakistani breeds) which are within 1 Mb of a significant association reported by Bitaraf Sani *et al.* (2021) (Iranian breeds).

Chromo	Pakistani breeds		Iranian breeds		Diff (Mb) ^c
	Position (bp)	SNP ID ^a	Position (bp)	SNP ID ^b	
7	83,006,915	22446_42	82,468,596	S7_82468596	-0.54 – -0.52
			82,483,675	S7_82483675*	
			82,483,685	S7_82483685*	
11	71,663,573	137595_71	70,990,227	S11_70990227	-0.67 – +0.69
			71,992,855	S11_71992855	
			72,060,113	S11_72060113	
			72,350,029	S11_72350029	
			72,356,390	S11_72356390	
			72,356,400	S11_72356400	
			72,356,401	S11_72356401*	
			72,356,436	S11_72356436	
11	81,674,156	103229_45	81,210,420	S11_81210420*	-0.46 – -0.71
			81,918,150	34447_68	
18	30,302,544	56307_46	29,830,420	S18_29830420	-0.61 – -0.20
			30,305,338	56308_47	
			30,307,339	56310_55	
			30,438,158	56328_38	
			29,985,605	S18_29985605	
			30,061,144	S18_30061144	
			30,075,711	S18_30075711	
			30,105,059	S18_30105059	
25	1,009,197	157643_51	262,766	S25_262766	-0.75 – -0.75
			262,898	S25_262898	
			263,079	S25_263079	
			263,086	S25_263086	
31	16,003,963	79310_43	16,977,384	S31_16977384	-0.08 – +0.99
	17,061,932	115825_14	16,998,649	S31_16998649	
33	4,172,256	83833_55	4,467,956	S33_4467956	+0.30

* Associations with $p < 0.001$ reported by Bitaraf Sani *et al.* (2021), otherwise $p < 0.05$.

^a SNP ID from present study

^b SNP ID from Bitaraf Sani *et al.* (2021) study

^c Difference in SNP positions (Mb), calculated as (Iranian pos (bp) – Pakistani pos (bp)) / 10⁶.