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Identification of genetic variants of *bGH*, *GHR* and *IGF1* gene and their association with lactation persistency in Tharparkar cattle

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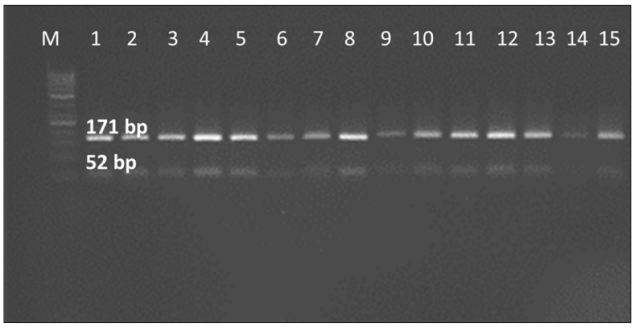
Supplementary Table 1. Sequence of primers, their respective number of bases, target region, amplicon sizes and annealing temperature

Gene		Primer sequence	Target region	Product size	Annealing temperature and time
GH	F	GCTGCTCCTGAGGGCCCTTCG	Exon 5	223	62°C 40s
	R	GCGGCGGCACTTCATGACCCT			
	F	CCCACGGGCAAGAATGAGGC	Intron 3	329	62°C 40s
	R	TGAGGAACTGCAGGGGCCCA			
GHR	F	CAGCAGGAAATGTGGTCCTT	Exon 10	462	60°C 40s
	R	GGGTAGCTCATGGGAAATCA			
	F	GATTCCGACAACTCTCCCTGT	Promoter	438	62°C 40s
	R	ATGTATGGAAGCAGACCGCA			
IGF1	F	TCATCCAGCTGAGAGATTTGAAT	Promoter	146	57°C 40s
	R	TGTGTGTGTGTGTGTGTG TGAAT			
	F	CCACTCTAAAGCTAGGCCTCTCTC	Exon 3	344	58°C 40s
	R	GAAGTCTATGAGGGTATGAAT			
	F	ATTACAAAGCTGCCTGCCCC	Exon 1	250	58°C 40s
	R	ACCTTACCCGTATGAAAGGAATATACGT			

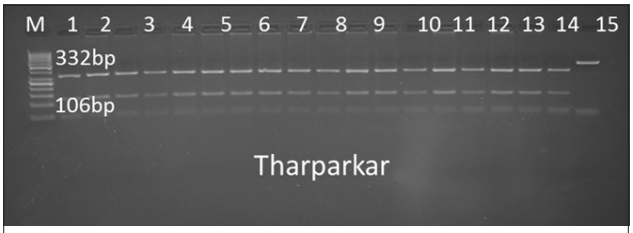
Supplementary Table 2. Recognition sites of restriction enzyme, reaction temperature and time

Restriction enzyme	Recognition site	Temperature	Time
*Alu*1	5′..AG*CT.. 3′ 3′..TC*GA.. 5′	37	12-16
*Msp*1	5′..C*CGG.. 3′ 3′..GGC*C.. 5′	37	12-16
*Stu*1	5′..AGG*CCT.. 3′ 3′..TCC*GGA.. 5′	37	6
*Tas*1	5′..*AATT.. 3′ 3′..TTAA*.. 5′	65	6-8
*Rsa*1	5′..GT*AC.. 3′ 3′..CA*TG.. 5′	37	12-16
*Sna*B1	5′..TAC*GTA.. 3′ 5′..ATG*CAT.. 5′	37	12-16



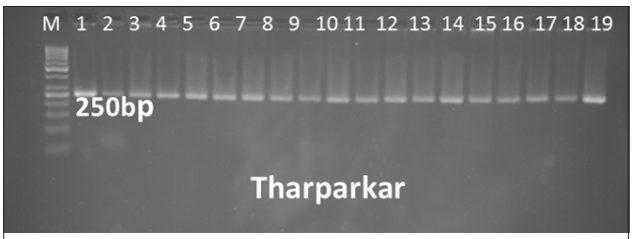
Lane 1-15 : CC Genotype (171 & 52 bp);
Lane M : 50 bp ladder

Supplementary Fig. 1. Resolution of PCR-RFLP of *GH-Alu*I gene in Tharparkar cattle.



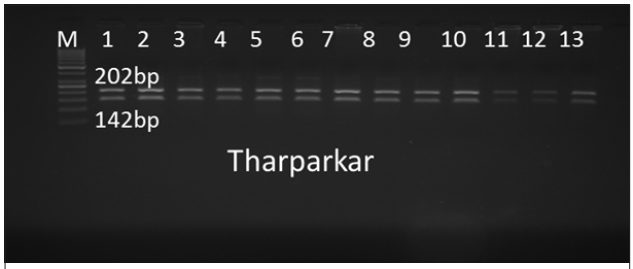
Lane 1-15 : CC Genotype (106 & 332 bp); Lane M : 50 bp ladder

Supplementary Fig. 2. Resolution of PCR-RFLP product of promoter of *GHR*-*Stu*I gene in Tharparkar cattle.



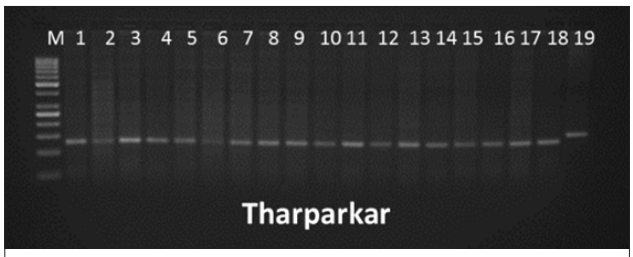
Lane 1-18 : CC Genotype (250 bp); Lane M : 50 bp ladder

Supplementary Fig. 3. Resolution of PCR-RFLP product of exon 1 of *IGF*1-*SnaB*I gene in Tharparkar cattle.



Lane 1-13 : TT Genotype (202, 142 bp); Lane M : 50 bp ladder

Supplementary Fig. 4. Resolution of PCR-RFLP product of exon 2 of *IGF*1-*Rsa*I gene in Tharparkar cattle.



Lane 1-18 : CC Genotype (146 bp); Lane M : 50 bp ladder

Supplementary Fig. 5. Resolution of PCR-RFLP product of promoter of *IGF*1-*Tas*I gene in Tharparkar cattle.