

Investigation of intra- and interspecies transcriptomic variants in the cow and sheep lactation process

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Supplementary Table S2. Annotated missense variants in major milk protein genes

Gene	Breed/stage	Variant	Deleterious	Amino acids	Codons
PAEP	BP/P/AP-Assaf/ Churra	rs430610497	NO	H/Y	Cac/Tac
PAEP	BP/P/AP -Kashmiri	rs109625649	NO	A/V	gCc/gTc
PAEP	BP-Jersey	rs109625649	NO	A/V	gCc/gTc
LALBA	BP/P/AP-Assaf/ Churra	rs403176291	NO	A/V	gCg/gTg
LALBA	BP/P/AP-Kashmiri	rs465119286	NO	I/V	Ata/Gta
LALBA	AP-Kashmiri	rs722550244	NO	R/Q	cGg/cAg
CSN2	BP/AP-Jersey	rs43703013	NO	R/S	agG/agC
CSN2	BP/AP-Jersey	rs43703011	NO	H/P	cAt/cCt
CSN2	BP-Jersey	rs109299401	NO	M/L	Atg/Ctg
CSN2	BP/P/AP-Kashmiri	rs43703013	NO	R/S	agG/agC
CSN2	BP/P/AP-Kashmiri	rs43703011	NO	H/P	cAt/cCt
CSN3	BP/P/AP-Jersey	rs43703016	YES	A/D	gCt/gAt
CSN3	BP/P/AP-Jersey	rs43703015	NO	I/T	aTc/aCc
CSN3	BP/P/AP-Kashmiri	rs43703016	YES	A/D	gCt/gAt
CSN3	BP/P/AP-Kashmiri	rs43703015	NO	I/T	aTc/aCc
CSN3	AP-Kashmiri	rs450402006	NO	T/I	aCc/aTc
CSN1S1	BP/P/AP-Kashmiri	rs43703010	NO	E/G	gAa/gGa
CSN1S1	AP-Jersey	rs43703010	NO	E/G	gAa/gGa
CSN1S2	AP-Jersey	rs465436451	NO	T/A	Act/Gct
CSN1S2	AP-Kashmiri	rs476152522	NO	V/F	Gtt/Ttt

BP: before peak, P: peak, AP: after peak