**Supplementary Material S1**

**Review: The cellular mechanisms underlying mammary tissue plasticity during lactation in ruminants**

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**Supplementary Material S2**

**The cellular mechanisms underlying mammary tissue plasticity during lactation in ruminants**

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**Abbreviations**

ACC, acetyl-CoA carboxylase

B4GALT1, Beta-1,4-Galactosyltransferase 1

BAX, BCL2 Associated X

BCL2, B-cell lymphoma 2

CD36, cluster of differentiation 36

Chi3L1, Chitinase 3 Like

CSN1S1, casein alpha s1 type 1

CSN1S2, casein alpha s1 type 2

CSN2, casein beta

CSN3,casein kappa

FABP3, Fatty acid binding protein 3

FABP4, Fatty acid binding protein 4

FAS, Cell surface death receptor

FASN, fatty acid synthase

G6PD, glucose-6-phosphate dehydrogenase

GPAM, Glycerol-3-phosphate acyltransferase 1

GT, galactosyltransferase

LALBA, lactalbumin

LDH, lactate dehydrogenase

LPL, Lipoprotein lipase

MEC, Mammary Epithelial cell

PAH, Phenylalanine hydroxylase

PARP, Poly(ADP-Ribose) polymerase

PCNA, proliferating cell nuclear antigen

PTGES, Prostaglandin E synthase

RBP1, Retinol binding protein 1

SCD, Stearoyl-CoA desaturase

SLC25A24, Solute carrier family 25 member 24,

SLC2A1, glucose transporter protein type 1.

SREBP1, Sterol regulatory element binding transcription factor 1

UGP2, UDP-Glucose pyrophosphorylase 2