

1 **Table S1.** Differentially expressed genes ($P < 0.01$, $|\text{Log}_2\text{FC}| > 1.2$) in mammary gland
 2 tissue of dairy goats with acute HS and chronic HS.

| Gene | Description | Log₂FC | P value |
|---------------------|--|--------------------------|----------------|
| HS1 VS CT1 | | | |
| NKX2-4 | NK2 homeobox 4 | -4.94 | 3.51E-05 |
| MAPK4 | Mitogen-activated protein kinase 4 | -2.54 | 5.37E-08 |
| CFAP65 | Cilia and flagella associated protein 65 | -2.39 | 1.80E-04 |
| TPO | Thyroid peroxidase | -2.16 | 1.84E-05 |
| FOSB | FosB proto-oncogene, AP-1 transcription factor subunit | 2.42 | 1.71E-05 |
| PRG4 | Proteoglycan 4 | 2.81 | 5.33E-04 |
| FOS | Fos proto-oncogene, AP-1 transcription factor subunit | 2.96 | 1.55E-06 |
| PPFIA2 | PTPRF interacting protein alpha 2 | 3.24 | 1.35E-04 |
| HS28 VS CT28 | | | |
| CHRD2 | Chordin like 2 | -1.62 | 0.001 |
| FGFBP1 | Fibroblast growth factor binding protein 1 | -1.62 | 1.45E-06 |
| PTGES | Prostaglandin E synthase | -1.56 | 4.43E-05 |
| MAPK4 | Mitogen-activated protein kinase 4 | -1.48 | 2.70E-06 |
| FGR | FGR proto-oncogene, Src family tyrosine kinase | -1.46 | 2.44E-05 |
| SDSL | Serine dehydratase like | -1.43 | 4.44E-06 |
| IL6R | Interleukin 6 receptor | 1.23 | 1.03E-06 |
| SCN9A | Sodium voltage-gated channel alpha subunit 9 | 1.36 | 3.94E-09 |