**Gelsolin expression in sheep milk somatic cells during lactation**

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| **Table S1 -** Simple statistics in *Sarda ewe milk.* | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Trait** | **N** | **Mean** | **SEM** | **Median** | **Minimum** | **Maximum** |
| **GSN** | 13 | 1.68462 | 0.39443 | 1.71900 | 1.00000 | 2.34800 |
| **Lactation** | 13 | 134.92308 | 14.44219 | 136.00000 | 118.00000 | 172.00000 |
| **Milk** | 13 | 410.76923 | 149.23201 | 375.00000 | 195.00000 | 685.00000 |
| **Fat** | 13 | 6.60077 | 0.99428 | 6.49000 | 5.42000 | 8.73500 |
| **Protein** | 13 | 5.55654 | 0.63345 | 5.70000 | 4.65000 | 6.94000 |
| **Lactose** | 13 | 4.78308 | 0.06688 | 4.79000 | 4.62500 | 4.87000 |
| **Log10SCC** | 13 | 2.98082 | 0.60825 | 2.97174 | 2.33000 | 4.20201 |

| GSN= gelsolin gene; SCC= somatic cell count.  **Table S2 -** Pearson’s correlation coefficients in *Sarda ewe milk.* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **GSN** | **Lactation** | **Milk** | **Fat** | **Protein** | **Lactose** | **Log10SCC** |
| **GSN** | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.26147 | | 0.3882 | | |  | | --- | | -0.01841 | | 0.9524 | | |  | | --- | | -0.69169 | | 0.0088 | | |  | | --- | | 0.01691 | | 0.9563 | | |  | | --- | | -0.56335 | | 0.0450 | | |  | | --- | | 0.45056 | | 0.1223 | |
| **Lactation** | |  | | --- | | 0.26147 | | 0.3882 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.13942 | | 0.6496 | | |  | | --- | | 0.03630 | | 0.9063 | | |  | | --- | | 0.13096 | | 0.6698 | | |  | | --- | | 0.37125 | | 0.2117 | | |  | | --- | | -0.22834 | | 0.4531 | |
| **Milk** | |  | | --- | | -0.01841 | | 0.9524 | | |  | | --- | | 0.13942 | | 0.6496 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | -0.14606 | | 0.6340 | | |  | | --- | | -0.37249 | | 0.2101 | | |  | | --- | | 0.43036 | | 0.1421 | | |  | | --- | | -0.27309 | | 0.3666 | |
| **Fat** | |  | | --- | | -0.69169 | | 0.0088 | | |  | | --- | | 0.03630 | | 0.9063 | | |  | | --- | | -0.14606 | | 0.6340 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.36446 | | 0.2208 | | |  | | --- | | 0.40151 | | 0.1739 | | |  | | --- | | -0.18324 | | 0.5490 | |
| **Protein** | |  | | --- | | 0.01691 | | 0.9563 | | |  | | --- | | 0.13096 | | 0.6698 | | |  | | --- | | -0.37249 | | 0.2101 | | |  | | --- | | 0.36446 | | 0.2208 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | -0.34705 | | 0.2453 | | |  | | --- | | 0.53761 | | 0.0581 | |
| **Lactose** | |  | | --- | | -0.56335 | | 0.0450 | | |  | | --- | | 0.37125 | | 0.2117 | | |  | | --- | | 0.43036 | | 0.1421 | | |  | | --- | | 0.40151 | | 0.1739 | | |  | | --- | | -0.34705 | | 0.2453 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | -0.68811 | | 0.0093 | |
| **Log10SCC** | |  | | --- | | 0.45056 | | 0.1223 | | |  | | --- | | -0.22834 | | 0.4531 | | |  | | --- | | -0.27309 | | 0.3666 | | |  | | --- | | -0.18324 | | 0.5490 | | |  | | --- | | 0.53761 | | 0.0581 | | |  | | --- | | -0.68811 | | 0.0093 | | |  | | --- | | 1.00000 | |  | |

GSN= gelsolin gene; SCC= somatic cell count.

| **Table S3 -** Spearman’s correlation coefficients in *Sarda ewe milk.* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **GSN** | **Lactation** | **Milk** | **Fat** | **Protein** | **Lactose** | **Log10SCC** |
| **GSN** | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.38292 | | 0.1966 | | |  | | --- | | -0.01931 | | 0.9501 | | |  | | --- | | -0.54396 | | 0.0546 | | |  | | --- | | -0.08803 | | 0.7749 | | |  | | --- | | -0.48210 | | 0.0952 | | |  | | --- | | 0.44505 | | 0.1275 | |
| **Lactation** | |  | | --- | | 0.38292 | | 0.1966 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.19640 | | 0.5202 | | |  | | --- | | 0.30303 | | 0.3142 | | |  | | --- | | 0.13517 | | 0.6597 | | |  | | --- | | 0.22790 | | 0.4539 | | |  | | --- | | -0.09366 | | 0.7609 | |
| **Milk** | |  | | --- | | -0.01931 | | 0.9501 | | |  | | --- | | 0.19640 | | 0.5202 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | -0.10483 | | 0.7332 | | |  | | --- | | -0.28039 | | 0.3535 | | |  | | --- | | 0.51037 | | 0.0747 | | |  | | --- | | -0.34483 | | 0.2486 | |
| **Fat** | |  | | --- | | -0.54396 | | 0.0546 | | |  | | --- | | 0.30303 | | 0.3142 | | |  | | --- | | -0.10483 | | 0.7332 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.40440 | | 0.1705 | | |  | | --- | | 0.42149 | | 0.1514 | | |  | | --- | | -0.26374 | | 0.3839 | |
| **Protein** | |  | | --- | | -0.08803 | | 0.7749 | | |  | | --- | | 0.13517 | | 0.6597 | | |  | | --- | | -0.28039 | | 0.3535 | | |  | | --- | | 0.40440 | | 0.1705 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | 0.07172 | | 0.8159 | | |  | | --- | | 0.26410 | | 0.3833 | |
| **Lactose** | |  | | --- | | -0.48210 | | 0.0952 | | |  | | --- | | 0.22790 | | 0.4539 | | |  | | --- | | 0.51037 | | 0.0747 | | |  | | --- | | 0.42149 | | 0.1514 | | |  | | --- | | 0.07172 | | 0.8159 | | |  | | --- | | 1.00000 | |  | | |  | | --- | | -0.68320 | | 0.0101 | |
| **Log10SCC** | |  | | --- | | 0.44505 | | 0.1275 | | |  | | --- | | -0.09366 | | 0.7609 | | |  | | --- | | -0.34483 | | 0.2486 | | |  | | --- | | -0.26374 | | 0.3839 | | |  | | --- | | 0.26410 | | 0.3833 | | |  | | --- | | -0.68320 | | 0.0101 | | |  | | --- | | 1.00000 | |  | |

GSN= gelsolin gene; SCC= somatic cell count.