**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.