Animal Journal

**Meat quality traits and the expression of tenderness-related genes in the loinsof young goats at different ages**

E. Saccà, M. Corazzin, S. Bovolenta andE. Piasentier

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| **Table S1** *Primer sequences, amplification products and amplification efficiency of the examined genes and reference genes.* |
| Gene | Primers sequence, 5’ to 3’ | Amplicon length (bp) | Accession Number(NCBI; GenBank) | Efficiency(%) | R2 |
| Capn11 | F: AACCGGATCCGGAATTACCTGTCCATCTTCR: GTAACCACTTAAACAAGTCAAAGGTCACCA | 278 | NM\_001285663.1 | 95.0 | 0.993 |
| Capn22 | F: CAGAGCTTCCAGGAGAACTATGCR: TGCCGAGTGCACGAAGAG | 128 | XM\_005690587.1 | 100.1 | 0.997 |
| Cast3 | F: CACAGAAGCCAAGGCTATTCCR: TTTACAGCCTGTTTTTTGTGTCTTTTC | 87 | NM\_001009788 | 97.6 | 0.995 |
| Casp34 | F: AGAACTGGACTGTGGTATTGAGAR: CACAAAGAGCCTGGATGAAC | 159 | NM\_001286089.1 | 94.9 | 0.990 |
| Casp95 | F: CCTGTGGTGGAGAGCAGAAAR: CATCTGGCTCGTCAGTGGAA | 134 | XM\_005690814.1 | 98.5 | 0.985 |
| Cryab6 | F: CCGCCTCTTTGACCAGTTR: AGAGGCCAGTGTCAATCC | 132 | XM\_005689436.1 | 97.6 | 1.000 |
| Hsp277 | F: CCTGGACGTCAACCACTTCR: GCTTGCCAGTGATCTCCAC | 76 | JQ957566.1 | 97.5 | 0.998 |
| Hsp408 | F: GTGGTAGCAGTTGGACTGACCATR: CTGAAGGCAGATTTTGGTAGACTTT | 124 | XM\_005675220.1 | 96.8 | 0.997 |
| Hsp709 | F: GACGACGGCATCTTCAAGR: GTTCTGGCTGATGTCCTTC | 131 | JN604433.1 | 99.6 | 0.991 |
| Cyclophilin10 | F: GGATTTATGTGCCAGGGTGGTGAR: CAAGATGCCAGGACCTGTATG | 120 | XM\_005679322.1 | 95.0 | 0.994 |
| β-actin11 | F: CTCTTCCAGCCTTCCTTCCTR: GGGCAGTGATCTCTTTCTGC | 177 | JX046106.1 | 96.8 | 0.999 |
| GAPDH12 | F: TCATCCCTGCTTCTACTGGCR: CCTGCTTCACCACCTTCTTG | 176 | XM\_005680968.1 | 96.9 | 0.997 |
| RPLP013 | F: CAACCCCGAAGTGCTTGACATR: AGGCAGATGGATCAGCCA | 224 | XM\_005709526.1 | 93.2 | 0.997 |
| Capn1 = calpain-1; Capn2 = calpain-2; Cast = calpastatin; Casp3 = caspase 3; Casp9 = caspase 9; Cryab = αB-crystallin; Hsp27 = heat shock protein 27; Hsp40 = heat shock protein 40; Hsp70 = heat shock protein 70. Cyclophilin, β-actin, Glyceraldehyde 3-phosphate dehydrogenase (GAPDH), Ribosomal Protein Large P0 (RPLP0) = reference genes.F = Forward; R = Reverse.References: 1Muroya *et al.* 2012; 2Greenwood *et al.* 2009; 3Therkildsen *et al.* 2008; 4Soresen *et al.* 2006; 5Norgaard *et al.* 2008; 6Zhang *et al.* 2011; 7Zhang et al. 2010; 8Kadegowda *et al.* 2009; 9Sharma *et al.* 2013; 10, 13Finot *et al.* 2011; 11Duckett et al. 2009; 12Bernabucci *et al.* 2006. |