**Table S12**

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| **GeneID** | **Product description/ application** | **Foward Primer (5'-3')** | **Reverse Primer (5'-3')** |
| XM\_018797592.1 | SmLSD1\_1 | GTCGTCCCGTAACTCCAGTG | AACAGGCAAGGTTTCGGACA |
| SmLSD1\_2 | TGTCACACGATGGAGAACTG | GAAGTGTAGATTTGTCGATTGTGAA |
| dsRNAi-T7/SmLSD1\_1 | GGGTAATACGACTCACTATAGGCCATCTCATACGTCGGTCCA | GGGTAATACGACTCACTATAGGCTTTCAGCAGGCGTCAGAGTA |
| dsRNAi-T7/SmLSD1\_2 | GGGTAATACGACTCACTATAGGGACTCGTATGTTGCTGTCGGAG | GGGTAATACGACTCACTATAGGCGGCTTCACGTAGACCACTT |
| qRT-PCR/SmLSD1 | CCACTTCAAACTGCCCTGTC | TCATCTTGATCCCAATGACGT |
| pEGFP-N3 | GFP | AGCAGAGCTGGTTTAGTGAACC | TTATGATCTAGAGTCGCGGCCG |
| dsRNAi-T7/SmLSD1\_1 | GGGTAATACGACTCACTATAGGGGGATCCATCGCCACCATGGT | GGGTAATACGACTCACTATAGGGTTACTTGTACAGCTCGTCCATGCCG |
| Smp\_090920 | qRT-PCR | CACCAGCTCATCATAAATAATCCA | TAGCATCCTGAAAGCCACGA |
| Smp\_062630 | qRT-PCR | GGAATGATGTGGCCGATAGT | CGCAGAGATTGGCTAAATTG |
| Smp\_103140 | qRT-PCR/ SmTubulin | GGATTTGACGGAATTCCAAA | AACGCTTAACTGCTCGTGGT |
| Smp\_085180 | cathepsin B (C01 family) | TATGAGTTCCCGCCGTGTAC | TGCTATGACCGGACCATTCA |
| Smp\_055780 | smdr2 | TGCCTATGGTGATAATAGTCGGA | TGTGAACCATCTTGACCAGCT |
| Smp\_187140 | cathepsin L proteinase | AGCTGTAACTGAATCTCAATATGCT | TGGATTGAACAACCACATCTGA |
| Smp\_126120 | LAMA protein 2 | ACTGGCAATTCAAGGTTACTGG | TTGTTACTTGTGTACGGAGGTT |
| Smp\_014570 | Saposin1 | TGCCGCAGATGAATCACAAT | GTGCATAACATGTTTGATCTGCT |
| Smp\_139160 | SmCL2 peptidase (C01 family) | TCGAAAGGTGTTGTGAAAGTGA | ACCAACAGCTAATACACCATGA |
| Smp\_166530 | phospholipase A | TCCAGCGTTCTATGCCATCT | CCAATCCATCAACAAGAGAGTGA |
| Smp\_025390 | putative calcium dependent protein kinase | TCAGGAGCTACAGAGAACGT | ACTCCACGGTTTATAGCTTGT |
| Smp\_128550 | src type protein tyrosine kinase | TTGCTTGGTGATACAGACGAG | GAACCAGTATCCCGAATGACC |
| Smp\_094930 | early growth response protein 1 | GCAGCTCCATCTCTTTCTACTG | TCCCCACTTTGTCTAGTTGAAC |
| Smp\_147730 | single kunitz protease inhibitor | CAAAGAAGAATGCGAGCGGA | ACGCTGAGTGGTTTCTGAGT |
| Smp\_034500 | Dual specificity protein phosphatase 10 | TCTCCCTGCAAACGATTCAC | TGCCCCATAAATGCGAAATTC |
| Smp\_047660 | ferritin%2C heavy polypeptide 1 | TGGTGGTCGTGTTCAGTACA | CGGTTAGTGCTGGATCATTGT |