**Table S9**

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| **Female downregulated genes** |
| **GeneID**  | **Log2FoldChange** | **product\_description** |
| **Cuffdif** | **b-Sleuth** | **EdgeR** |
| Smp\_170630 | -3,44 | -2,63 | -3,44 | Periostin 2C putative |
| Smp\_085180 | -3,28 | -2,85 | -3,37 | cathepsin B (C01 family)\* |
| Smp\_155570 | -2,75 | -2,46 | -2,98 | endoglycoceramidase |
| Smp\_055780 | -2,84 | -2,61 | -2,96 | smdr2# |
| Smp\_174700 | -2,83 | -2,62 | -2,84 | transcription factor HNF 4 |
| Smp\_156960 | -2,63 | -2,31 | -2,77 | nardilysin (M16 family) |
| Smp\_042720 | -2,77 | -2,02 | -2,67 | beta 13 n galactosyltransferase |
| Smp\_187140 | -2,58 | -2,31 | -2,65 | cathepsin L proteinase\* |
| Smp\_000190 | -2,56 | -2,05 | -2,64 | short chain dehydrogenase:reductase family 16C |
| Smp\_147070 | -2,50 | -1,95 | -2,61 | sodium coupled neutral amino acid |
| Smp\_169260 | -2,47 | -2,11 | -2,59 | zinc finger protein 362 |
| Smp\_166540 | -2,42 | -2,16 | -2,56 | serine:threonine protein kinase Nek11 |
| Smp\_166530 | -2,42 | -2,16 | -2,56 | phospholipase A\* |
| Smp\_085010 | -2,44 | -2,17 | -2,55 | cathepsin B peptidase (C01 family)\* |
| Smp\_075800 | -2,31 | -2,17 | -2,53 | hemoglobinase (C13 family) |
| Smp\_126120 | -2,53 | -2,04 | -2,52 | LAMA protein 2 |
| Smp\_036010 | -2,33 | -2,00 | -2,49 | magnesium transporter nipa2 |
| Smp\_139160 | -2,53 | -2,27 | -2,48 | SmCL2 peptidase (C01 family) |
| Smp\_141030 | -2,25 | -2,28 | -2,46 | epidermal growth factor receptor pathway |
| Smp\_016490 | -2,42 | -2,09 | -2,42 | saposin B domain containing protein\* |
|  **Female upregulated genes** |
| **GeneID** | **(Log2FoldChange)** | **product\_description** |
| **Cuffdif**  | **b-Sleuth** | **EdgeR** |
| Smp\_025390 | 5,76 | 3,84 | 5,77 | calcium dependent protein kinase |
| Smp\_128550 | 5,13 | 3,51 | 4,92 | src type protein tyrosine kinase |
| Smp\_094930 | 4,76 | 3,02 | 4,66 | early growth response protein 1 |
| Smp\_134870 | 4,01 | 2,58 | 3,89 | putative early growth response protein 2 |
| Smp\_124060 | 3,15 | 1,97 | 3,02 | venom allergen-like (VAL) 13 protein\* |
| Smp\_174810 | 3,20 | 1,93 | 2,99 | Extracellular superoxide dismutase (Cu Zn) |
| Smp\_159810 | 4,15 | 2,03 | 2,91 | MEG-2 (ESP15) family\* |
| Smp\_172460 | 2,57 | 1,36 | 2,51 | Krueppel factor 10 like |
| Smp\_049300 | 2,44 | 1,73 | 2,50 | major egg antigen 2C putative |
| Smp\_186020 | 2,98 | 1,62 | 2,37 | major egg antigen |
| Smp\_008660 | 2,31 | 1,48 | 2,31 | gelsolin |
| Smp\_135980 | 2,25 | 1,39 | 2,16 | Calcium binding protein |
| Smp\_172960 | 2,13 | 1,38 | 2,14 | serine type protease inhibitor |
| Smp\_147730 | 2,13 | 1,38 | 2,14 | single kunitz protease inhibitor |
| Smp\_034500 | 2,25 | 1,30 | 2,11 | Dual specificity protein phosphatase 10 |
| Smp\_053560 | 2,07 | 1,29 | 2,02 | MAP kinase activated protein kinase 2 |
| Smp\_123190 | 1,63 | 1,22 | 1,99 | ADP ribosylation factor protein 2 binding |
| Smp\_136660 | 2,21 | 1,16 | 1,95 | pro neuregulin 2 |
| Smp\_136650 | 2,21 | 1,16 | 1,95 | pro neuregulin 2 membrane bound |
| Smp\_028210 | 2,02 | 1,26 | 1,89 | calcyphosin protein like |