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| **Table 3. Differential Gene Expression Region Incongruence** | | | |
| **Gene** | **Region Up** | **Region Down** | **Description** |
| *Tchh* | LH, ARC | DMH | trichohyalin |
| *Abhd14a* | LH | ARC | abhydrolase domain containing 14A |
| *Btg1* | LH | DMH | BTG anti-proliferation factor 1 |
| *Cckar* | LH | DMH | cholecystokinin A receptor |
| *Efl1* | LH | DMH | elongation factor like GTPase 1 |
| *Gjc1* | LH | ARC | gap junction protein, gamma 1 |
| *Gpr50* | LH | DMH | G-protein-coupled receptor 50 |
| *Gtf2h3* | LH | ARC | general transcription factor IIH, polypeptide 3 |
| *Hdac4* | LH | DMH | histone deacetylase 4 |
| *Htr1b* | LH | DMH | 5-hydroxytryptamine (serotonin) receptor 1B |
| *Ift88* | LH | DMH | intraflagellar transport 88 |
| *Irs4* | LH | DMH | insulin receptor substrate 4 |
| *Med24* | LH | ARC | mediator complex subunit 24 |
| *Mustn1* | LH | ARC | musculoskeletal, embryonic nuclear protein 1 |
| *Nol12* | LH | DMH | nucleolar protein 12 |
| *Nsun7* | LH | DMH | NOL1/NOP2/Sun domain family, member 7 |
| *Pdyn* | LH | DMH | prodynorphin |
| *Rcc1l* | LH | DMH | reculator of chromosome condensation 1 like |
| *Riox1* | LH | ARC | ribosomal oxygenase 1 |
| *Slc16a11* | LH | ARC | solute carrier family 16 (monocarboxylic acid transporters), member 11 |
| *Slc7a14* | LH | DMH | solute carrier family 7 (cationic amino acid transporter, y+ system), member 14 |
| *Vps18* | LH | ARC | VPS18 CORVET/HOPS core subunit |
| *Desi1* | DMH | LH | desumoylating isopeptidase 1 |
| *Dut* | DMH | LH | deoxyuridine triphosphatase |
| *Fkbp15* | DMH | LH | FK506 binding protein 15 |
| *Gpr146* | DMH | ARC | G protein-coupled receptor 146 |
| *Irx2* | DMH | ARC | Iroquois homeobox 2 |
| *Mid1ip1* | DMH | ARC | Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish)) |
| *Mss51* | DMH | LH | MSS51 mitochondrial translational activator |
| *Mtg2* | DMH | LH | mitochondrial ribosome associated GTPase 2 |
| *Pex7* | DMH | ARC | peroxisomal biogenesis factor 7 |
| *Sidt1* | DMH | LH | SID1 transmembrane family, member 1 |
| *Skida1* | DMH | LH | SKI/DACH domain containing 1 |
| *Slc9a3r2* | DMH | LH | solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 2 |
| *Smad6* | DMH | ARC | SMAD family member 6 |
| *Tmc7* | DMH | LH | transmembrane channel-like gene family 7 |
| *Tph2* | DMH | ARC | tryptophan hydroxylase 2 |
| *Bmp3* | ARC | LH | bone morphogenetic protein 3 |
| *Fnbp4* | ARC | DMH | formin binding protein 4 |
| *Iws1* | ARC | DMH | IWS1, SUPT6 interacting protein |
| *Snrpb2* | ARC | DMH | U2 small nuclear ribonucleoprotein B |
| *Stim2* | ARC | DMH | stromal interaction molecule 2 |
| *Zcchc8* | ARC | DMH | zinc finger, CCHC domain containing 8 |

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| Table 3. Differential gene expression incongruence analysis. First organized by which regions incongruent genes were upregulated in stressed subjects, then which regions they were downregulated in. |