

Supplementary Table 3. Cellular component analysis of differentially upregulated genes.

| GO.ID | Term | Ontology | Count | Pop.Hits | List.Total | Pop.Total | Fold.Enrichment | Pvalue | FDR | Enrichment.Score | GENES |
|------------|--|--------------------|-------|----------|------------|-----------|------------------|---------------------|-----|------------------|--|
| GO:0005667 | transcription factor complex | Cellular component | 5 | 323 | 77 | 23539 | 4.73221824615013 | 0.00416185691202761 | 1 | 2.38071285525968 | LMO2//PBX3 /POU2F1//RBL2 /FOXK2 |
| GO:0044451 | nucleoplasm part | Cellular component | 7 | 707 | 77 | 23539 | 3.02674553169603 | 0.00836399277002481 | 1 | 2.07758635126561 | LMO2//PBX3 /POU2F1//RBL2 /FOXK2//THAP7 /CDK13 |
| GO:0001725 | stress fiber | Cellular component | 2 | 52 | 77 | 23539 | 11.7577422577423 | 0.0126002846205685 | 1 | 1.89961964474385 | ACTN4//MYH7 |
| GO:0032432 | actin filament bundle | Cellular component | 2 | 55 | 77 | 23539 | 11.1164108618654 | 0.0140225267452969 | 1 | 1.85317372298371 | ACTN4//MYH7 |
| GO:0005654 | nucleoplasm | Cellular component | 7 | 797 | 77 | 23539 | 2.68495494467891 | 0.0153947746897201 | 1 | 1.81262666283271 | LMO2//PBX3 /POU2F1//RBL2 /FOXK2//THAP7 /CDK13 |
| GO:0043231 | intracellular membrane-bounded organelle | Cellular component | 37 | 8360 | 77 | 23539 | 1.3529842167402 | 0.0157508732949841 | 1 | 1.80269536208528 | HPD//SYCP2 /ENBP1 /2010106G01RIK /EPDR1 /TBC1D15 /RAB32//SEFN3 /HK3//LETM2 /PLD3//SMPD4 /LMO2//MEIS2 /PBX3//POU2F1 /PPARA//PRM2 /RBL2//YBX2 /RCAN1 /ZFP318 /ACTN4 /UBE2W//PUS3 /UPF3B//FOXK2 /THAP7//CDK13 /ATOH8 /2310003H01RIK /NCK1PSD /MYH7//PAPD7 /RASGRP4 /STEAP3 /HOOK3 |
| GO:0016607 | nuclear speck | Cellular component | 2 | 59 | 77 | 23539 | 10.3627558881796 | 0.0160215165542488 | 1 | 1.79529637714263 | THAP7//CDK13 |
| GO:0043227 | membrane-bounded organelle | Cellular component | 37 | 8380 | 77 | 23539 | 1.34975513746397 | 0.0163920039201763 | 1 | 1.78536795074457 | HPD//SYCP2 /ENBP1 /2010106G01RIK /EPDR1 /TBC1D15 /RAB32//SEFN3 /HK3//LETM2 /PLD3//SMPD4 /LMO2//MEIS2 /PBX3//POU2F1 /PPARA//PRM2 /RBL2//YBX2 /RCAN1 /ZFP318 /ACTN4 /UBE2W//PUS3 /UPF3B//FOXK2 /THAP7//CDK13 /ATOH8 /2310003H01RIK /NCK1PSD /MYH7//PAPD7 /RASGRP4 /STEAP3 /HOOK3 |
| GO:0042641 | actomyosin | Cellular component | 2 | 61 | 77 | 23539 | 10.0229934000426 | 0.0170640825536399 | 1 | 1.76791705649771 | ACTN4//MYH7 |
| GO:0043226 | organelle | Cellular component | 40 | 9472 | 77 | 23539 | 1.29096832221832 | 0.0246018359422688 | 1 | 1.60903248192733 | HPD//HOOK3 /RBL2//PRM2 /SYCP2//ACTN4 /MYH7 /SH3PXD2B /ENBP1 /2010106G01RIK /EPDR1 /TBC1D15 /RAB32//SEFN3 /HK3//LETM2 /PLD3//SMPD4 /LMO2//MEIS2 /PBX3//POU2F1 /PPARA//YBX2 /RCAN1 /ZFP318 /UBE2W//PUS3 /UPF3B//FOXK2 /THAP7//CDK13 /ATOH8 /2310003H01RIK |

