**Table S1**: Genes up/downregulated in at least one tissue, sorted according to the change in muscle expression. Shaded in grey: upregulated. In bold: downregulated

FC, fold-change value in LGMD2A patients’ samples compared to control samples.

P values were adjusted by the Benjamini-Hochberg method using Stat Miner software. ND: Not detected by quantitative RT-PCR. Myotubes-16: Myotubes at 16 days of differentiation.

Note that muscle results have already been published elsewhere (Ref. 8).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **MUSCLE** | | **MYOBLASTS** | | **MYOTUBES-16** | |
| **Detector**  **(GENE-TaqMan probe)** | **FC value** | **P.Value** | **FC value** | **P.Value** | **FC value** | **P.Value** |
| FRZB-Hs00173503\_m1 | 13.156 | 0.00024 | **0,3918** | 0,3711 | 3,3582 | 0,8785 |
| ACTC1-Hs01109515\_m1 | 10.803 | 0.00254 | **0,3916** | 0,8362 | 0,676 | 0,8785 |
| MYOM3-Hs00537054\_m1 | 6.738 | 0.00019 | **0,489** | 0,8362 | 0,8723 | 0,9498 |
| E2F8-Hs00226635\_m1 | 4.421 | 0.00077 | **0,4127** | 0,3711 | 0,8379 | 0,9498 |
| SLC2A5-Hs00161720\_m1 | 3.738 | 0.00269 | 0,889 | 0,9789 | 0,7061 | 0,9068 |
| IL32-Hs00170403\_m1 | 3.262 | 0.02379 | 1,0546 | 0,9747 | 0,6129 | 0,8785 |
| DOK5-Hs00218324\_m1 | 3.162 | 0.00609 | 0,8506 | 0,9246 | 0,5379 | 0,8785 |
| EYA1-Hs00166804\_m1 | 2.606 | 0.04313 | **0,445** | 0,5024 | 1,3296 | 0,9068 |
| ITGB1BP2-Hs00183746\_m1 | 2.503 | 0.01339 | 0,6837 | 0,8574 | 0,6336 | 0,8785 |
| CD9-Hs00233521\_m1 | 2.157 | 0.05711 | 0,8938 | 0,8978 | 1,0246 | 0,9736 |
| MYOT-Hs00199016\_m1 | 2.041 | 0.06441 | **0,1293** | 0,8292 | 0,7875 | 0,8785 |
| IGF1-Hs00153126\_m1 | 1.964 | 0.07014 | **0,2213** | 0,8362 | **0,3312** | 0,8785 |
| LGR5-Hs00173664\_m1 | **0.225** | 0.06347 | **0,4672** | 0,8362 | 2,3492 | 0,8785 |
| EGR1-Hs00152928\_m1 | **0.127** | 0.00174 | **0,2494** | 0,5024 | 0,7008 | 0,8785 |