**Suppl 4.** Downregulated and upregulated miRNAs with the 10 largest fold-changes in *SAR1A*-knockout K562 cells with HU treatment compared with wild type with HU treatment, FDR < 0.05 and fold change > 2 or < -2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **miRNAs** | **microRNA ID** | ***P*-value** | **FDR step up** | **Log2(Ratio)** |
| **Downregulated** | hsa-miR-675-5p | 7.54E-04 | 1.08E-02 | -5.36 |
|  | hsa-miR-222-5p | 7.93E-04 | 1.12E-02 | -5.27 |
|  | hsa-miR-4695-3p | 3.48E-03 | 3.35E-02 | -4.51 |
|  | hsa-miR-6741-3p | 4.00E-03 | 3.73E-02 | -4.34 |
|  | hsa-miR-1908-3p | 2.33E-04 | 4.22E-03 | -3.94 |
|  | hsa-miR-1908-5p | 3.67E-19 | 1.11E-16 | -3.92 |
|  | hsa-miR-1227-3p | 2.34E-03 | 2.49E-02 | -3.92 |
|  | hsa-miR-877-3p | 1.25E-04 | 2.55E-03 | -3.72 |
|  | hsa-miR-1268b | 1.17E-08 | 9.64E-07 | -3.61 |
|  | hsa-miR-4646-3p | 1.84E-03 | 1.98E-02 | -3.42 |
| **Upregulated** | hsa-miR-5701 | 4.99E-04 | 7.67E-03 | 3.20 |
|  | hsa-miR-3159 | 2.37E-07 | 1.40E-05 | 3.84 |
|  | hsa-miR-10395-3p | 5.75E-17 | 1.04E-14 | 4.08 |
|  | hsa-miR-96-3p | 4.11E-03 | 3.80E-02 | 4.08 |
|  | hsa-miR-4463 | 9.43E-05 | 2.03E-03 | 5.00 |
|  | hsa-miR-891a-5p | 5.39E-03 | 4.84E-02 | 5.14 |
|  | hsa-miR-3609 | 5.85E-19 | 1.32E-16 | 5.39 |
|  | hsa-miR-12136 | 8.06E-27 | 3.65E-24 | 5.42 |
|  | hsa-miR-1290 | 1.61E-16 | 2.43E-14 | 6.74 |
|  | hsa-miR-1246 | 2.19E-67 | 1.99E-64 | 7.87 |