**Table s1.**

Combined list of differentially expressed RNAs in women 22-24w with sPTB≦32w according to Affymetrix Human Exon and GeneChip miRNA arrays. The samples were derived from 5 women with no comorbidities and sPTB≦32w (half preceded by PPROM) and 5 of similar age and parity with no comorbidities delivered spontaneously at term. Half the women were Black and half White. All were selected for clarity of diagnosis, the availability of longitudinal samples and a complete medical record.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene Symbol** | **Fold Change** | **p-value** |  | **Gene Symbol** | **Fold Change** | **p-value** |  | **Gene Symbol** | **Fold Change** | **p-value** |  | **Gene Symbol** | **Fold Change** | **p-value** |
| mir-548i | 1.5 | 1.61E-03 | ZBTB12 | -1.6 | 2.24E-02 | APH1A | -3.2 | 1.48E-03 | BTBD1 | -3.3 | 2.05E-02 |
| mir-99a | 1.6 | 4.64E-03 | FAM128B | -1.8 | 2.26E-02 | CCDC150 | -3.1 | 1.75E-03 | CAPN1 | -3.0 | 2.05E-02 |
| mir-99b | 1.7 | 4.57E-02 | OR52E2 | -1.5 | 2.28E-02 | ALOX15 | -3.2 | 1.79E-03 | BCKDK | -3.1 | 2.08E-02 |
| mir-382 | -1.8 | 9.49E-05 | LOC150622 | -1.6 | 2.33E-02 | AP1M2 | -3.0 | 1.80E-03 | C1orf57 | -4.9 | 2.17E-02 |
| mir-491 | -2.2 | 2.34E-04 | SEPHS1 | -1.4 | 2.34E-02 | C11orf59 | -3.1 | 1.83E-03 | C17orf101 | -3.2 | 2.18E-02 |
| mir-214 | -1.5 | 5.13E-04 | BANF1 | -2.1 | 2.44E-02 | BPIL3 | -3.7 | 1.87E-03 | BRSK1 | -3.6 | 2.22E-02 |
| mir-31 | -1.9 | 1.32E-03 | GTF2B | -1.5 | 2.63E-02 | AEBP1 | -3.7 | 1.94E-03 | C1orf174 | -3.2 | 2.26E-02 |
| mir-342 | -1.5 | 6.02E-03 | RGMA | -1.5 | 2.69E-02 | ACBD5 | -3.1 | 2.61E-03 | CACNA1A | -5.3 | 2.36E-02 |
| let-7g | -1.8 | 7.14E-03 | PRLHR | -1.8 | 2.74E-02 | C13orf27 | -3.4 | 2.87E-03 | B4GALT3 | -3.2 | 2.39E-02 |
| mir-194-1 | -1.5 | 7.95E-03 | DPY19L2P2 | -1.5 | 2.91E-02 | ANO8 | -3.5 | 2.92E-03 | CA12 | -3.3 | 2.39E-02 |
| mir-194-2 | -2.3 | 6.85E-03 | METRN | -1.5 | 2.94E-02 | ABCD3 | -7.5 | 2.93E-03 | BZRAP1 | -3.4 | 2.44E-02 |
| mir-92b | -1.7 | 1.71E-02 | FFAR1 | -1.6 | 3.08E-02 | C14orf138 | -3.2 | 3.03E-03 | C8orf33 | -4.2 | 2.47E-02 |
| mir-320b-1/2 | -4.7 | 2.42E-02 | NPPB | -1.7 | 3.12E-02 | C19orf68 | -16.7 | 3.08E-03 | ADCK3 | -3.7 | 2.52E-02 |
| mir-US4 | -2.1 | 2.89E-02 | BNIP3 | -1.5 | 3.57E-02 | CCDC33 | -3.1 | 3.12E-03 | ARRDC2 | -3.1 | 2.60E-02 |
| TASP1 | 1.5 | 6.56E-05 | BHLHA15 | -2.2 | 3.67E-02 | ATP2A1 | -3.6 | 3.54E-03 | CD276 | -4.4 | 2.72E-02 |
| ZNF99 | 1.5 | 2.82E-04 | FAU | -1.6 | 3.75E-02 | ABCD3 | -3.2 | 3.75E-03 | C2orf55 | -8.0 | 2.73E-02 |
| FLJ16171 | 2.6 | 1.33E-03 | C9orf70 | -1.5 | 3.89E-02 | C2orf28 | -3.5 | 4.29E-03 | C15orf42 | -3.6 | 2.83E-02 |
| REG3G | 1.9 | 2.07E-03 | RPL30 | -1.9 | 4.01E-02 | C11orf63 | -3.1 | 4.36E-03 | C5 | -4.5 | 2.84E-02 |
| OR51A2 | 1.5 | 4.79E-03 | METRNL | -1.5 | 4.09E-02 | BIN1 | -3.3 | 4.45E-03 | AXL | -3.3 | 2.91E-02 |
| NDUFA2 | 1.6 | 7.49E-03 | UBL5 | -2.2 | 4.10E-02 | CACNA2D4 | -3.2 | 4.47E-03 | ANXA8L2 | -5.2 | 2.91E-02 |
| SF3A3 | 2.7 | 9.11E-03 | KCNJ4 | -1.6 | 4.16E-02 | CA11 | -3.6 | 4.54E-03 | CCDC57 | -3.2 | 2.93E-02 |
| LCE2A | 2.3 | 1.28E-02 | NACA | -2.1 | 4.59E-02 | ALX4 | -3.4 | 4.88E-03 | C6orf174 | -5.9 | 2.95E-02 |
| S100A14 | 1.5 | 1.28E-02 | SERF2 | -1.6 | 4.60E-02 | CCDC8 | -3.1 | 5.17E-03 | C5orf25 | -4.9 | 2.99E-02 |
| STEAP1 | 1.5 | 2.25E-02 | SULT1A2 | -1.6 | 4.74E-02 | C19orf28 | -6.2 | 5.38E-03 | CDH16 | -4.3 | 3.06E-02 |
| MGC24103 | 1.5 | 2.42E-02 | OR51G2 | -1.5 | 4.78E-02 | C2orf18 | -3.0 | 5.46E-03 | CAMTA1 | -3.3 | 3.14E-02 |
| SPDYE1 | 1.7 | 2.45E-02 | BTF3 | -1.7 | 4.81E-02 | CCDC18 | -3.7 | 5.55E-03 | CA2 | -3.5 | 3.15E-02 |
| TRIM48 | 1.5 | 2.45E-02 | LSM10 | -1.5 | 4.91E-02 | C12orf24 | -3.5 | 5.68E-03 | CDAN1 | -3.7 | 3.16E-02 |
| NCRNA00152 | 1.8 | 2.49E-02 | BEND2 | 4.0 | 1.37E-03 | BPESC1 | -4.5 | 5.96E-03 | C19orf29 | -4.9 | 3.23E-02 |
| FLJ39739 | 1.6 | 2.91E-02 | BCLAF1 | 3.1 | 1.38E-03 | CABP1 | -3.3 | 6.07E-03 | C15orf52 | -3.3 | 3.24E-02 |
| FXYD2 | 1.5 | 3.65E-02 | ABCB8 | 4.8 | 2.05E-03 | ANGPT4 | -4.6 | 6.13E-03 | AZI1 | -3.9 | 3.24E-02 |
| C1orf104 | 1.6 | 3.81E-02 | ABR | 3.4 | 2.43E-03 | CD72 | -3.3 | 6.62E-03 | APBB3 | -3.1 | 3.26E-02 |
| PSAT1 | 1.5 | 3.85E-02 | ANKMY2 | 3.0 | 2.88E-03 | AKNA | -7.4 | 6.75E-03 | C9orf106 | -3.4 | 3.30E-02 |
| KIAA1274 | 1.5 | 4.07E-02 | ATN1 | 3.2 | 2.94E-03 | CCDC48 | -4.0 | 6.87E-03 | ABCA13 | -3.3 | 3.30E-02 |
| TAS2R10 | 1.5 | 4.37E-02 | C3orf70 | 3.1 | 3.70E-03 | C21orf91 | -3.6 | 6.89E-03 | BLOC1S3 | -3.0 | 3.32E-02 |
| RPS20 | 1.5 | 4.77E-02 | C1orf159 | 4.5 | 3.80E-03 | ARF1 | -3.4 | 6.96E-03 | C3orf49 | -3.2 | 3.32E-02 |
| LOC150763 | 1.5 | 4.92E-02 | AHCTF1 | 3.4 | 5.39E-03 | ATRN | -3.6 | 7.26E-03 | ALPP | -4.3 | 3.34E-02 |
| LOC643008 | -1.6 | 1.06E-04 | CA5B | 3.0 | 6.23E-03 | ALPK3 | -3.0 | 7.54E-03 | ATXN3 | -3.9 | 3.35E-02 |
| KRTAP6-2 | -2.1 | 4.61E-04 | CAPN13 | 3.3 | 6.66E-03 | ASPDH | -3.6 | 7.93E-03 | C1orf86 | -3.7 | 3.36E-02 |
| STH | -1.4 | 4.87E-04 | C17orf70 | 3.1 | 7.52E-03 | ALKBH6 | -5.3 | 8.01E-03 | ABCG1 | -3.9 | 3.38E-02 |
| OR2A2 | -1.6 | 5.93E-04 | ARHGAP33 | 3.0 | 9.34E-03 | AGBL4 | -3.5 | 8.06E-03 | ARFRP1 | -5.4 | 3.41E-02 |
| PRTN3 | -1.6 | 6.08E-04 | C11orf66 | 3.3 | 9.74E-03 | C15orf52 | -3.3 | 8.13E-03 | C21orf63 | -3.1 | 3.43E-02 |
| PSG9 | -1.8 | 6.40E-04 | AHCYL2 | 3.1 | 1.08E-02 | ABCC8 | -4.5 | 8.34E-03 | CACNA2D3 | -4.2 | 3.45E-02 |
| GUCA2B | -1.7 | 7.62E-04 | C4A | 3.0 | 1.10E-02 | C21orf88 | -9.2 | 8.45E-03 | ARMC10 | -4.1 | 3.49E-02 |
| ARMC10 | -1.7 | 9.87E-04 | APOE | 6.0 | 1.43E-02 | BATF2 | -4.2 | 9.00E-03 | CATSPERG | -4.2 | 3.70E-02 |
| C11orf59 | -1.5 | 1.01E-03 | BSN | 5.5 | 1.58E-02 | BTRC | -4.7 | 9.13E-03 | ASTN2 | -7.4 | 3.71E-02 |
| CHCHD10 | -2.6 | 1.07E-03 | CD19 | 6.7 | 1.72E-02 | AZU1 | -3.5 | 9.17E-03 | A1BG-AS | -3.6 | 3.72E-02 |
| OGFOD2 | -1.5 | 1.15E-03 | CDC42BPG | 7.4 | 1.75E-02 | BCL2L11 | -4.8 | 9.32E-03 | C19orf29 | -3.1 | 3.72E-02 |
| BLOC1S1 | -2.2 | 1.19E-03 | AP2S1 | 3.4 | 1.82E-02 | CAMTA2 | -3.0 | 9.40E-03 | ANAPC16 | -7.3 | 3.72E-02 |
| APOA1 | -1.9 | 1.46E-03 | C1orf158 | 3.7 | 2.26E-02 | C14orf169 | -3.1 | 9.55E-03 | ALDH4A1 | -5.3 | 3.89E-02 |
| CD3E | -1.7 | 1.53E-03 | AGAP3 | 3.4 | 2.31E-02 | ARL6IP4 | -3.1 | 9.86E-03 | ACTC1 | -3.0 | 3.90E-02 |
| KRTDAP | -1.4 | 1.65E-03 | C6orf130 | 3.3 | 2.53E-02 | BZRAP1 | -3.2 | 1.05E-02 | ANKRD11 | -3.4 | 3.94E-02 |
| PDZK1 | -2.0 | 1.90E-03 | CACNA1E | 3.4 | 2.54E-02 | C1D | -3.2 | 1.05E-02 | AP2A2 | -8.3 | 3.96E-02 |
| NAT14 | -1.6 | 2.31E-03 | C10orf92 | 3.3 | 2.55E-02 | ATCAY | -3.8 | 1.12E-02 | CC2D2A | -6.6 | 3.98E-02 |
| KRT17 | -2.0 | 2.99E-03 | AGAP3 | 4.0 | 3.02E-02 | C17orf88 | -6.3 | 1.22E-02 | CACNB3 | -4.0 | 3.99E-02 |
| RPS19BP1 | -1.5 | 5.71E-03 | CCDC57 | 3.5 | 3.84E-02 | ARHGEF4 | -3.7 | 1.26E-02 | CCDC135 | -4.3 | 4.00E-02 |
| TMEM188 | -1.5 | 6.22E-03 | ASTN1 | 4.7 | 4.00E-02 | APBA3 | -3.7 | 1.27E-02 | BOLA2 | -3.2 | 4.14E-02 |
| CSRP2 | -1.8 | 6.27E-03 | C2orf27B | 3.8 | 4.04E-02 | CD22 | -3.8 | 1.28E-02 | ATF5 | -3.5 | 4.19E-02 |
| OR4D1 | -2.3 | 6.99E-03 | CAPN13 | 4.3 | 4.24E-02 | ALPPL2 | -4.0 | 1.28E-02 | BRD3 | -4.4 | 4.27E-02 |
| RPL8 | -1.5 | 7.50E-03 | ARAP1 | 3.0 | 4.54E-02 | CD79B | -6.0 | 1.35E-02 | BTNL8 | -4.2 | 4.32E-02 |
| TNFRSF13C | -1.6 | 8.14E-03 | ADCK3 | 5.1 | 4.59E-02 | C8ORFK29 | -3.2 | 1.37E-02 | C6orf70 | -3.9 | 4.45E-02 |
| MRPS21 | -1.6 | 9.11E-03 | ATP5A1 | 3.6 | 4.65E-02 | C22orf13 | -3.1 | 1.44E-02 | C15orf52 | -3.9 | 4.56E-02 |
| APOA4 | -1.5 | 9.24E-03 | CAMKK1 | 4.9 | 4.70E-02 | CD3E | -6.8 | 1.44E-02 | C3orf64 | -3.5 | 4.57E-02 |
| JSRP1 | -1.5 | 9.30E-03 | CD99P1 | 3.2 | 5.04E-02 | ATAD3A | -4.1 | 1.47E-02 | ACIN1 | -3.6 | 4.78E-02 |
| PSME2 | -5.6 | 9.92E-03 | ACR | -5.4 | 3.95E-05 | ATG4A | -4.1 | 1.48E-02 | AUTS2 | -3.9 | 4.82E-02 |
| ZBTB5 | -1.5 | 1.07E-02 | ANKRD52 | -3.2 | 1.51E-04 | ADAMTSL3 | -3.6 | 1.49E-02 | CD47 | -4.8 | 4.82E-02 |
| C10orf95 | -1.7 | 1.22E-02 | CASKIN2 | -3.2 | 4.35E-04 | C20orf200 | -3.1 | 1.51E-02 | AATK | -3.1 | 4.88E-02 |
| NAMPT | -2.3 | 1.39E-02 | C3 | -17.5 | 4.87E-04 | ANO5 | -3.0 | 1.59E-02 | CBFA2T2 | -5.6 | 5.04E-02 |
| TAAR6 | -1.8 | 1.54E-02 | CARD8 | -4.1 | 6.84E-04 | ACAP3 | -3.8 | 1.61E-02 | C11orf35 | -4.6 | 5.04E-02 |
| MYL6 | -1.6 | 1.54E-02 | ALKBH1 | -3.1 | 8.01E-04 | C1QTNF3 | -3.6 | 1.62E-02 | ADA | -3.2 | 5.20E-02 |
| ATP5G2 | -2.0 | 1.88E-02 | CCNYL2 | -4.8 | 9.46E-04 | ANXA6 | -3.9 | 1.67E-02 | ARL4C | -3.1 | 5.21E-02 |
| FAM18B2 | -1.6 | 1.95E-02 | CDC25B | -3.7 | 9.74E-04 | CBL | -3.4 | 1.70E-02 | APOB48R | -4.3 | 5.29E-02 |
| SP6 | -1.5 | 2.05E-02 | CACNA1I | -4.0 | 1.04E-03 | CD6 | -4.4 | 1.87E-02 |  |  |  |
| INF2 | -1.6 | 2.08E-02 | AXIN2 | -3.2 | 1.18E-03 | BOK | -5.6 | 1.90E-02 |  |  |  |
| ARHGDIA / | -1.6 | 2.08E-02 | ABCF1 | -3.2 | 1.28E-03 | ALDH3A1 | -3.3 | 1.98E-02 |  |  |  |
| OTUD6A | -1.5 | 2.10E-02 | ADAMTS7 | -3.1 | 1.41E-03 | C1QBP | -3.9 | 2.04E-02 |  |  |  |
|  | | | | | | | | | | | | | | |