Hantelys et al. Supplementary File 2

**Hypoxia: 4 h**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Total mRNA** | | **Polysome bound mRNA** | | **Fold change** | | **Standard deviation** | |
| **Gene name** | RQ 1 | RQ 2 | RQ 1 | RQ 2 | RQ(polysomes)/  RQ(total mRNA) 1 | RQ(polysomes)/  RQ(total mRNA) 2 | ST DEV 1 | ST DEV 2 |
| *Akt1* | 0.54 | 0.63 | 1.12 | 1.45 | 2.07 | 2.29 | 0.07 | 0.05 |
| *Ang* | 0.22 | 0.59 | 0.54 | 0.44 | 2.42 | -1.35 | 0.53 | 0.01 |
| *Angpt1* | 0.16 | 0.48 | 0.37 | 0.32 | 2.35 | -1.48 | 0.67 | 0.01 |
| *Angptl4* | 0.21 | 0.39 | 0.67 | 0.48 | 3.26 | 1.23 | 1.56 | 0.15 |
| *Anpep* | 0.41 | 0.40 | 1.39 | 1.59 | 3.41 | 3.96 | 0.21 | 0.83 |
| *Apelin* | 35.38 | 2.85 | 60.39 | 4.47 | 1.71 | 1.57 | 0.27 | 0.10 |
| *Aplnnr* | 3.25 | ND | 1.12 | ND | -2.86 | ND | 0.35 | ND |
| *Atp2a2* | 0.31 | 0.45 | 0.6 | 0.84 | 1.94 | 1.84 | 0.34 | 0.07 |
| *Bai1* | 0.16 | 0.39 | 0.61 | 1.97 | 3.8 | 5.06 | 0.89 | 0.30 |
| *Ccl2* | 1.57 | 1.96 | ND | ND | ND | ND | ND | ND |
| *Ccl21a* | 2.65 | ND | ND | ND | ND | ND | ND | ND |
| *Col18a1* | 0.45 | 0.57 | 1.18 | 0.88 | 2.64 | 1.53 | 0.61 | 0.19 |
| *Col4a3* | 0.37 | 0.51 | 0.87 | 1.15 | 2.36 | 2.24 | 0.41 | 0.13 |
| *Ctgf* | 0.29 | 0.48 | 0.9 | 0.13 | 3.15 | -3.77 | 0.49 | 0.00 |
| *Cxcl1* | 0.1 | 0.56 | 0.22 | 0.29 | 2.21 | -1.95 | 0.3 | 0.04 |
| *Cxcl10 (inp10)* | 0.19 | 0.43 | 0.74 | 0.13 | 3.96 | -3.26 | 1.43 | 0.02 |
| *Cyr 61* | 0.45 | 0.72 | 0.91 | 0.62 | 2 | -1.16 | 0.24 | 0.04 |
| *Edn1* | 0.27 | 0.48 | 0.68 | 0.68 | 2.49 | 1.42 | 0.55 | 0.03 |
| *Efna1* | 0.3 | 0.48 | 0.69 | 0.82 | 2.29 | 1.69 | 0.29 | 0.16 |
| *Efnb2* | 0.53 | 0.55 | 1.31 | 0.68 | 2.48 | 1.23 | 0.71 | 0.01 |
| *Egf* | 0.21 | 0.56 | 0.53 | 2.34 | 2.46 | 4.16 | 1.56 | 0.67 |
| *Eng* | 0.8 | 0.63 | 2.16 | 1.36 | 2.71 | 2.16 | 0.78 | 0.25 |
| *Ephb4* | 0.31 | 0.50 | 0.58 | 0.68 | 1.87 | 1.36 | 0.23 | 0.05 |
| *Erbb2(her2)* | 0.27 | 0.41 | 0.55 | 0.60 | 2.02 | 1.44 | 0.24 | 0.08 |
| *F3* | 0.44 | 0.78 | 1.1 | 0.51 | 2.48 | -1.53 | 0.51 | 0.00 |
| *Fgf1* | 0.3 | 0.40 | 0.76 | 1.16 | 2.56 | 2.90 | 0.87 | 0.19 |
| *Fgf2* | 0.06 | - | ND | - | ND | - | ND | - |
| *Fgfr3* | 0.63 | 0.70 | 1.35 | 0.88 | 2.15 | 1.25 | 0.41 | 0.12 |
| *Fibrillarin* | ND | 0.61 | ND | 1.06 | ND | 1.73 | ND | 0.04 |
| *Fn1* | 0.48 | 0.46 | 1.13 | 0.57 | 2.34 | 1.23 | 0.3 | 0.04 |
| *Hif1a* | 0.52 | 0.55 | 0.97 | 0.90 | 1.88 | 1.63 | 0.36 | 0.18 |
| *Hif2a* | ND | 0.39 | ND | 0.64 | ND | 1.64 | ND | 0.14 |
| *Hnrnpm* | 0.74 | 0.68 | 1.84 | 1.42 | 2.48 | 2.08 | 0.5 | 0.01 |
| *Hpse* | 0.66 | 0.61 | 2.75 | 1.26 | 4.17 | 2.07 | 0.79 | 0.16 |
| *Id1* | 0.47 | ND | 0.9 | 0.87 | 1.93 | ND | 0.38 | ND |
| *Ifna1* | 0.34 | ND | 1.35 | 1.91 | 3.93 | ND | 1.38 | ND |
| *Igf1* | 0.22 | 0.40 | 0.44 | 0.79 | 2.03 | 1.97 | 0.54 | 0.13 |
| *Igf1r* | 1.05 | 0.79 | 1.97 | 1.49 | 1.88 | 1.88 | 0.06 | 0.06 |
| *Itgav* | 0.48 | 0.61 | 0.86 | 0.75 | 1.79 | 1.22 | 0.31 | 0.01 |
| *Itgb3* | 0.48 | 0.56 | 1.18 | 0.52 | 2.44 | -1.07 | 0.4 | 0.09 |
| *Jag1* | 0.17 | ND | 0.35 | ND | 2.03 | ND | 0.38 | ND |
| *Mdk* | 0.47 | ND | 0.96 | 0.66 | 2.03 | ND | 0.35 | ND |
| *Mmp14* | 0.44 | 0.79 | 0.82 | 0.90 | 1.85 | 1.13 | 0.18 | 0.13 |
| *Mmp2* | 0.27 | 0.24 | 0.52 | 1.26 | 1.91 | 5.14 | 0.44 | 2.48 |
| *Neat-1* | 0.22 | 0.43 | 0.88 | 4.21 | 3.98 | 9.90 | 1.24 | 0.03 |
| *Nos3* | 1.08 | 0.20 | 0.84 | 2.35 | -1.30 | 11.86 | 0.1 | 4.49 |
| *Nrp1* | 0.54 | 0.48 | 0.9 | 0.35 | 1.67 | -1.37 | 0.22 | 0.00 |
| *Nrp2* | 0.51 | 0.60 | 0.96 | 0.78 | 1.88 | 1.29 | 0.18 | 0.09 |
| *P54nrb* | 0.57 | 0.73 | 1.77 | 1.32 | 3.12 | 1.81 | 0.78 | 0.09 |
| *Pai-1* | 4.77 | 2.31 | 9.15 | 5.12 | 1.92 | 2.22 | 0.27 | 0.27 |
| *Pdgfa* | 0.41 | 0.59 | 0.99 | 1.33 | 2.42 | 2.24 | 0.48 | 0.06 |
| *Pecam1* | 0.55 | 0.93 | 1.18 | 0.95 | 2.15 | 1.03 | 1.37 | 0.15 |
| *Pf4* | 0.44 | 0.54 | 0.86 | 0.47 | 1.97 | -1.15 | 1.07 | 0.03 |
| *Pgf* | 0.65 | 0.20 | 1.53 | 3.70 | 2.36 | 18.38 | 0.83 | 2.53 |
| *PLAU(upa)* | 0.31 | 0.36 | 0.68 | 0.73 | 2.16 | 2.03 | 0.5 | 0.59 |
| *Plg* | 0.67 | ND | 0.17 | ND | -3.85 | ND | 0.77 | ND |
| *Prox1* | 0.33 | 0.51 | 0.72 | 1.52 | 2.22 | 2.95 | 0.27 | 0.51 |
| *Psf/sfpq* | 0.44 | 0.65 | 1.21 | 0.75 | 2.74 | 1.15 | 0.8 | 0.02 |
| *Pspc1* | 0.36 | 0.47 | 0.8 | 0.79 | 2.19 | 1.68 | 0.43 | 0.03 |
| *Serpinf1* | 0.31 | 0.12 | 1.79 | 0.89 | 5.7 | 7.61 | 2.05 | 0.95 |
| *Sphk1* | 0.58 | 0.63 | 0.45 | 2.32 | -1.30 | 3.65 | 0.12 | 1.09 |
| *Tek* | 0.22 | 0.44 | 0.54 | 1.15 | 2.43 | 2.62 | 0.95 | 0.24 |
| *Tgfa* | 0.85 | 0.43 | 2.09 | 1.03 | 2.45 | 2.40 | 0.31 | 1.00 |
| *Tgfb1* | 0.29 | 0.52 | 0.74 | 0.57 | 2.52 | 1.08 | 0.31 | 0.03 |
| *Tgfb2* | 0.3 | 0.63 | 0.72 | 0.52 | 2.39 | -1.22 | 0.39 | 0.04 |
| *Tgfbr1* | 0.44 | 0.52 | 0.81 | 0.51 | 1.86 | -1.02 | 0.57 | 0.02 |
| *Thbs1* | 0.31 | 0.48 | 0.62 | 0.38 | 2.03 | -1.27 | 0.3 | 0.23 |
| *Thbs2* | 0.35 | 0.47 | 0.7 | 0.67 | 1.98 | 1.43 | 0.28 | 0.01 |
| *Timp1* | 0.27 | 0.46 | 0.63 | 0.43 | 2.36 | -1.07 | 0.34 | 0.15 |
| *Timp2* | 0.27 | 0.52 | 0.69 | 0.90 | 2.55 | 1.73 | 0.42 | 0.04 |
| *Timp3* | 0.22 | 0.57 | 0.44 | 0.77 | 1.95 | 1.35 | 0.31 | 0.02 |
| *Vash1* | - | 0.33 | - | 2.28 | - | 6.86 | - | 4.27 |
| *Vegfa* | 1.82 | 2.09 | 5.38 | 2.28 | 2.95 | 1.09 | 0.7 | 0.04 |
| *Vegfb* | 2.94 | 0.59 | 8.39 | 1.40 | 2.85 | 2.37 | 0.43 | 0.07 |
| *Vegfc* | 1.05 | - | ND | - | ND | - | ND | - |
| *Vegfd* | 0.23 | 0.48 | 0.56 | 0.85 | 2.44 | 1.78 | 0.96 | 0.23 |
| *Vegfr2 (kdr)* | 0.25 | 0.37 | 0.58 | 0.57 | 2.29 | 1.55 | 0.55 | 0.15 |

**Hypoxia: 24 h**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene name** | **Total mRNA** | **Polysome bound mRNA** | **Fold change** | **Standard deviation** |
| *Akt1* | 1.80 | 5.69 | 3.17 | 0.22 |
| *Ang* | 1.88 | 2.38 | 1.26 | 0.15 |
| *Angpt1* | 1.17 | 2.62 | 2.24 | 0.08 |
| *Angptl4* | ND | ND | ND | ND |
| *Anpep* | 4.68 | ND | ND | ND |
| *Apelin* | 31.49 | ND | ND | ND |
| *Aplnnr* | ND | ND | ND | ND |
| *Atp2a2* | 3.34 | 2.73 | -1.22 | 0.12 |
| *Bai1* | 1.39 | ND | ND | ND |
| *Ccl2* | ND | ND | ND | ND |
| *Ccl21a* | ND | 0.83 | ND | ND |
| *Col18a1* | 4.29 | 12.60 | 2.94 | 0.27 |
| *Col4a3* | 5.14 | 9.53 | 1.85 | 0.21 |
| *Ctgf* | 1.83 | 2.75 | 1.50 | 0.07 |
| *Cxcl1* | 1.09 | 1.04 | -1.06 | 0.23 |
| *Cxcl10 (inp10)* | 10.42 | ND | ND | ND |
| *Cyr 61* | 4.57 | 5.52 | 1.21 | 0.12 |
| *Edn1* | 2.40 | 2.13 | -1.12 | 0.04 |
| *Efna1* | 4.02 | 2.79 | -1.44 | 0.04 |
| *Efnb2* | 2.86 | 3.03 | 1.06 | 0.07 |
| *Egf* | 2.33 | ND | ND | ND |
| *Eng* | 4.50 | ND | D | ND |
| *Ephb4* | 2.67 | 3.37 | 1.26 | 0.01 |
| *Erbb2(her2)* | 2.26 | 4.96 | 2.20 | 0.34 |
| *F3* | 3.72 | 5.21 | 1.40 | 0.06 |
| *Fgf1* | 1.00 | ND | ND | ND |
| *Fgf2* | - | - | - | - |
| *Fgfr3* | 5.01 | 9.20 | 1.84 | 0.35 |
| *Fibrillarin* | 2.13 | 2.49 | 1.17 | 0.22 |
| *Fn1* | ND | ND | ND | ND |
| *Hif1a* | 1.24 | 2.75 | 2.21 | 0.21 |
| *Hif2a* | 1.56 | ND | ND | ND |
| *Hnrnpm* | 1.25 | 7.91 | 6.34 | 0.76 |
| *Hpse* | 17.68 | 7.70 | -2.30 | 0.07 |
| *Id1* | 1.75 | ND | ND | ND |
| *Ifna1* | ND | ND | ND | ND |
| *Igf1* | 1.73 | 1.42 | -1.22 | 0.07 |
| *Igf1r* | 4.65 | 4.94 | 1.06 | 0.00 |
| *Itgav* | 5.01 | 7.29 | 1.46 | 0.17 |
| *Itgb3* | 1.99 | 15.07 | 7.56 | 0.49 |
| *Jag1* | ND | ND | ND | ND |
| *Mdk* | 2.08 | ND | ND | ND |
| *Mmp14* | 3.04 | 4.42 | 1.45 | 0.17 |
| *Mmp2* | 2.88 | ND | ND | ND |
| *Neat-1* | 3.20 | 3.44 | 1.08 | 0.17 |
| *Nos3* | ND | ND | ND | ND |
| *Nrp1* | 3.04 | 2.84 | -1.07 | 0.12 |
| *Nrp2* | 4.42 | 5.27 | 1.19 | 0.07 |
| *P54nrb* | 2.55 | 7.61 | 2.99 | 0.08 |
| *Pai-1* | 18.19 | ND | ND | ND |
| *Pdgfa* | 2.90 | 10.05 | 3.46 | 0.34 |
| *Pecam1* | 11.37 | ND | ND | ND |
| *Pf4* | 1.16 | ND | ND | ND |
| *Pgf* | 6.82 | ND | ND | ND |
| *PLAU(upa)* | 4.42 | 2.28 | -1.94 | 0.00 |
| *Plg* | ND | ND | ND | ND |
| *Prox1* | 1.10 | 3.35 | 3.04 | 0.28 |
| *Psf/sfpq* | 0.86 | 4.59 | 5.32 | 0.05 |
| *Pspc1* | 1.23 | 1.73 | ND | ND |
| *Serpinf1* | 15.49 | ND | ND | ND |
| *Sphk1* | 6.11 | ND | ND | ND |
| *Tek* | 4.07 | 5.49 | 1.35 | 0.16 |
| *Tgfa* | 4.75 | ND | ND | ND |
| *Tgfb1* | 3.41 | 5.67 | 1.66 | 0.14 |
| *Tgfb2* | 4.72 | 1.80 | -2.63 | 0.06 |
| *Tgfbr1* | 2.08 | 2.37 | 1.14 | 0.23 |
| *Thbs1* | 5.35 | 4.11 | -1.30 | 0.10 |
| *Thbs2* | 3.77 | 3.29 | -1.15 | 0.01 |
| *Timp1* | 2.75 | 2.05 | -1.34 | 0.12 |
| *Timp2* | 2.12 | 1.94 | -1.09 | 0.14 |
| *Timp3* | 5.20 | ND | ND | ND |
| *Vash1* | 7.43 | ND | ND | ND |
| *Vegfa* | 8.15 | 14.73 | 1.81 | 0.19 |
| *Vegfb* | 1.94 | 6.41 | 3.31 | 0.34 |
| *Vegfc* | - | - | - | - |
| *Vegfd* | 2.77 | ND | ND | ND |
| *Vegfr2 (kdr)* | 3.04 | 2.28 | -1.33 | 0.13 |