

Table S6: The list of HIF-1 signaling target genes

Category	N genes/ % of 135	
Direct HIF-1 target genes	9/6.7%	<i>Adgrd1, Axl, Cd55, Cfp, Kdm3a, Loxl2, Lrp1, Pcf11, Sla</i>
Gene expression linked to <i>Hif1a</i>	18/13.3%	<i>Aldh1a2, Capg, Cd248, Col3a1, Coro1a, Cxcl1, Dclk1, Ifitm1, Il33, Lyve1, Msr1, Myh11, Ptgis, Ptgs1, Ptpnj, Srpj, Tgfbr2, Timp1</i>
Gene expression linked to hypoxia	42/31.1%	<i>Adra1a, Amigo2, C1qa, C1qb, Ccl2, Ccl7, Ccl9, Cd53, Cpn2, Ctsc, Ctss, Dpt, Ecm1, Emp3, F13a1, Fbln1, Fbn1, Fcgr2b, Fgl2, Folr2, Frat2, Fstl1, Fxyd5, Fyb, G0s2, Gas7, Gsta3, Igfbp4, Itgb2, Kap, Lbp, Mmp9, Mpeg1, Myocd, Ncf1, Nrn1, Pirb, Rab15, Rrad, Stab1, Vav1, Vwf</i>
Predicted HIF-1 target genes	12/8.9%	<i>C5ar1, Capg, Ccdc80, Ctss, Fmr1nb, Fyb, Itgb2, Mmp9, Myocd, Ptgis, Rab15, Vwf</i>
Genes from the families with predicted HIF-1 targets	62/45.9%	<i>Ackr2, Adamtsl3, Adamtsl4, Adgrd1, Aldh1a2, Amigo2, Arpc1b, C1qa, C1qb, C1qc, Casp4, Ccl2, Ccl6, Ccl7, Ccl9, Cd14, Cd248, Cd300ld, Cd53, Cd55, Cdh20, Clec3b, Clec4n, Col3a1, Coro1a, Ctsc, Cxcl1, Ecm1, Emilin2, Emp3, Fbln1, Fcna, Frat2, Fxyd5, Gas7, Gpr22, Gsta3, Ifitm1, Il33, Itgam, Kcnab2, Kdm3a, Lbp, Mfap5, Mrc1, Ms4a6d, Myh11, Myo1g, Nxpe5, Olfr78, P2ry6, Plek, Ptchd3, Ptgs1, Ptpnj, Slc35e2, Tgfbr2, Tlr13, Vav1, Wfdc17, Zbtb11, Zfp397</i>

The list of genes with fold change ≤ 0.3 in *Hif1a*^{+/-} offspring exposed to maternal diabetes (N=135) was used for manual literature search for direct targets of HIF-1 signalling, genes affected by alteration in the *Hif1a* expression, and hypoxia. Harmonizome database was used for the search of predicted targets and genes from families of genes with predicted targets based on binding site motifs.