

**Table S2. Complete results of the IGN network analysis from E14.5 placenta**

Cross	$\text{♀ } H19^{\Delta 3mat/+} \times \text{♂ } H19^{+/+; Tg}$								$\text{♀ } H19^{\Delta 3mat/+; YAC} \times \text{♂ } wt$								$\text{♀ } H19^{\Delta 3mat/+; YAC} \times \text{♂ } wt$							
Genotype	WT		$H19^{\Delta 3mat/+}$				$H19^{\Delta 3mat/+; Tg}$				WT		$H19^{\Delta 3mat/+}$				$H19^{\Delta 3mat/+; YAC}$							
Gene name	Average	sd	Average	sd	KO/WT	Signif.	Average	sd	KOTg/ WT	Signif.	Average	sd	Average	sd	KO/WT	Signif.	Average	sd	KOYac/ WT	Signif.				
<i>Cdkn1c</i>	2.32	0.47	2.46	0.51	1.06		2.58	0.35	1.11		50.79	9.16	54.84	6.06	1.08		51.18	10.84	1.01					
<i>Dcn</i>	/	/	/	/			/	/			18.32	3.45	17.43	4.31	0.95		14.07	2.75	0.77					
<i>Dlk1</i>	0.65	0.07	0.58	0.15	0.89		0.68	0.15	1.03		5.43	2.02	4.65	2.36	0.86		6.41	1.02	1.18					
<i>Gatm</i>	0.48	0.14	0.45	0.13	0.93		0.39	0.07	0.81		6.07	1.28	5.74	1.95	0.95		4.65	1.47	0.77					
<i>Gnas ex1</i>	1.79	0.29	1.76	0.14	0.99		1.72	0.16	0.96		19.74	2.37	16.97	3.60	0.86		22.01	2.31	1.12					
<i>Gnas XL</i>	0.02	0.00	0.02	0.01	1.16		0.02	0.01	1.21		0.11	0.04	0.11	0.04	1.03		0.14	0.03	1.32					
<i>Gtl2</i>	0.51	0.07	0.51	0.20	0.99		0.52	0.16	1.01		2.01	0.66	1.67	0.85	0.83		2.29	0.43	1.14					
<i>Grb10</i>	0.20	0.04	0.19	0.03	0.94		0.23	0.05	1.14		3.00	0.56	2.99	0.54	1.00		2.86	0.61	0.95					
<b><i>H19</i></b>	<b>57.85</b>	<b>7.82</b>	<b>0.39</b>	<b>0.15</b>	<b>0.01</b>	<b>+</b>	<b>5.00</b>	<b>0.72</b>	<b>0.09</b>	<b>+</b>	<b>338.25</b>	<b>62.11</b>	<b>3.18</b>	<b>1.66</b>	<b>0.01</b>	<b>+</b>	<b>311.88</b>	<b>75.16</b>	<b>0.92</b>	<b>+</b>				
<i>Igf2</i>	10.31	1.35	10.45	1.44	1.01		12.09	1.58	1.17		51.63	12.68	53.29	14.13	1.03		64.20	10.61	1.24					
<i>Igf2r</i>	0.21	0.04	0.20	0.03	0.95		0.22	0.05	1.05		0.42	0.07	0.47	0.08	1.11		0.50	0.08	1.19					
<i>Mest</i>	0.18	0.02	0.18	0.06	0.99		0.21	0.04	1.17		1.83	0.59	1.93	0.59	1.05		1.80	0.42	0.99					
<i>Ndn</i>	/	/	/	/			/	/			0.34	0.08	0.31	0.05	0.91		0.28	0.08	0.82					
<i>Peg3</i>	/	/	/	/			/	/			28.46	3.09	29.98	4.79	1.05		35.23	4.39	1.24					
<i>Rian</i>	0.36	0.06	0.34	0.14	0.96		0.40	0.09	1.10		1.69	0.68	1.65	0.32	0.97		1.49	0.35	0.88					
<i>Rtl1</i>	0.02	0.00	0.02	0.00	0.93		0.02	0.01	1.13		0.41	0.15	0.43	0.14	1.04		0.46	0.09	1.12					
<i>Slc38a4</i>	/	/	/	/			/	/			27.30	3.87	29.23	4.31	1.07		30.88	3.80	1.13					
<i>Zac1</i>	/	/	/	/			/	/			1.95	0.62	1.93	0.58	0.99		2.27	0.53	1.16					

