

RNAseq	LPHC	LPHC	LPHC	LPHC	HPLC	HPLC	HPLC	HPLC	F1(M)	F1(M)	F1(MM)	F1(MM)	F2(M)	F2(M)	F2(MM)	F2(MM)	F3(M)	F3(M)	F3(M)	F3(M)	F3(MM)	F3(MM)	F3(MM)	F3(MM)
Caf1-105	3,111.00	540.62	3,383.00	705.95	7,994.00	1461.23	5,603.00	1225.2	7,480.00	1581.19	3,551.00	730.46	6,214.00	1534.62	4,198.00	968.58	7,190.00	1534.47	6,408.00	1347.14	2,248.00	453.98	2,285.00	527.19
Def	0	1183.41	0	1059.6	0	337.92	0	739.36	0	850.04	0	561.43	0	2295.78	0	1928.06	0	2151.62	0	2836.26	0	654.76	0	640.37
E(Pc)	9,543.00	1252.99	10,639.00	1553.81	21,109.00	2590.59	16,304.00	2362.66	20,780.00	2768.44	13,052.00	1783.37	16,793.00	2941.93	4,621.00	1881.6	20,280.00	2666.68	16,811.00	2472.8	9,090.00	1248.64	6,101.00	1101.56
E(bx)	14,158.00	1715.39	15,712.00	2122.34	28,571.00	3247.3	21,570.00	3071.66	30,496.00	3593.59	17,028.00	2316.29	20,994.00	2991.87	6,909.00	2357.3	27,586.00	3612.36	24,255.00	3145.61	14,086.00	1554.03	9,194.00	1503.62
E(spl)m4-BFM	56	28.78	0	4.03	0	2.65	0	2.3	0	1.38	0	2.66	0	3.22	0	1	0	3.2	6	7.41	20	4.87	228	94.72
E(spl)m5-HLH	49	9.55	0	2.24	2	1	0	2.3	2	1	0	1	2	1.51	0	1.01	0	4.13	0	1.18	23	2.75	147	55.02
Fbp1	40	1.31	31	4.03	618	33.76	3,039.00	180.83	1,742.00	479.24	248	12.6	470	44.08	227	16.17	3,515.00	264.91	2,479.00	177.96	23	1.7	36	4.34
Hml	9,024.00	1121.14	8,296.00	1060.5	2,407.00	271.38	2,921.00	410.36	2,596.00	303.42	7,303.00	976.04	2,799.00	407.26	3,474.00	859.5	1,312.00	198.09	2,333.00	343.81	7,371.00	809.04	3,762.00	701.19
Hmt4-20	8,958.00	614.79	10,472.00	864.42	18,497.00	1282.37	14,752.00	1033.92	18,471.00	1432.35	11,969.00	886.55	15,088.00	1257.7	4,946.00	915.05	17,208.00	1351.65	14,766.00	1091.9	8,610.00	577.61	6,440.00	717.24
Inos	16,009.00	3807.64	15,872.00	4104.56	9,474.00	2398.77	10,590.00	2969.64	8,044.00	2428.98	12,833.00	3139.54	9,678.00	3014.57	11,641.00	3200.63	7,115.00	2344.65	9,324.00	2655.11	12,300.00	3127.5	10,973.00	2929.42
Lip3	13	7.72	7	21.93	118	60.55	95	44.39	137	64.05	17	19.56	276	95.53	20	13.14	198	57.03	661	182.67	5	11.21	13	11.1
Lsd-1	20,002.00	4085.08	20,281.00	4287.21	4,902.00	949.69	6,368.00	1283.86	3,921.00	871.8	11,220.00	2284.48	4,992.00	1148.74	6,902.00	1976.54	4,327.00	940.52	3,935.00	901.35	18,816.00	4431.51	19,727.00	4672.81
Lsp1beta	60,110.00	7157.98	39,870.00	4913.93	20,067.00	2392.72	24,805.00	3418.51	36,428.00	5874.96	56,131.00	6914.73	31,158.00	4762.36	41,910.00	6548.71	19,335.00	2987.78	10,448.00	1798.82	5,308.00	765.71	5,089.00	762.85
Ocho	80	15.04	0	1	0	1.79	0	1.28	0	1	0	3.22	0	3.22	0	1.01	0	3.2	0	1	73	9.09	324	61.78
Pc	1,069.00	621.2	1,156.00	790.11	2,146.00	1348.9	1,907.00	1189.5	2,492.00	1376.64	1,472.00	869.65	1,928.00	1484.68	1,018.00	948.38	2,067.00	1482.5	1,871.00	1270.69	1,061.00	602.98	1,006.00	663.18
Pgm	34,133.00	13073.04	36,582.00	15465.2	19,158.00	7342.21	18,739.00	7698.01	19,132.00	8051.87	29,259.00	11073.71	22,663.00	9993.62	27,164.00	10760.32	16,561.00	7083.24	16,709.00	7665.88	29,958.00	12126.62	28,133.00	11340.6
Sap30	2,552.00	432.58	2,549.00	483.02	4,533.00	725.03	3,558.00	650.1	4,409.00	783.02	2,901.00	558.45	3,764.00	756.81	2,897.00	583.78	3,998.00	815.24	3,809.00	704.92	2,137.00	426.5	2,111.00	394.58
Su(var)3-3	1,993.00	279.67	2,357.00	354.99	4,617.00	653.31	3,398.00	600.36	4,494.00	677.7	2,473.00	384.45	3,823.00	741.68	1,517.00	472.68	4,466.00	675.1	3,940.00	675.51	1,684.00	301.81	1,509.00	307.58
Su(var)3-7	6,339.00	1047.89	6,765.00	1240.45	16,021.00	2356.43	11,350.00	2060.44	15,463.00	2673.56	7,745.00	1393.62	12,629.00	2394.14	5,162.00	1583.65	14,238.00	2476.43	12,267.00	2203.44	5,435.00	977.06	4,474.00	953.75
Top2	20,821.00	3521.04	22,867.00	4113.52	40,316.00	6225.81	32,708.00	5699.8	40,332.00	6727.97	28,994.00	4773.1	36,473.00	6348.23	16,734.00	4606.52	38,882.00	6716.66	35,641.00	5645.11	20,776.00	3327.23	15,416.00	3112.71
Tps1	61,525.00	2870.94	61,330.00	3047.2	18,475.00	880.57	21,305.00	1106.61	15,413.00	848.3	42,484.00	1940.47	22,999.00	1307.63	37,889.00	2054.3	14,649.00	775.33	14,419.00	856.65	65,498.00	3393.8	60,395.00	3250.39
Ubx	629	80.97	726	81.92	228	28.58	265	20.16	155	21.4	436	53.37	146	25.92	327	51.52	182	25.47	178	20.35	615	72.5	516	82.9
asf1	4,781.00	1478.24	4,780.00	1614.7	8,113.00	2617.38	6,442.00	2261.92	8,207.00	2953.84	4,623.00	1696.87	7,488.00	3052.4	6,288.00	2059.35	7,780.00	3080.59	7,194.00	2703.34	3,524.00	1235.96	3,942.00	1284.85
fd68A (Mnf)	5,141.00	1047.89	5,048.00	1029.16	7,302.00	1310.02	6,409.00	1257.08	7,056.00	1343.56	5,460.00	1114.24	5,030.00	1129.07	2,845.00	1095.83	6,350.00	1258.84	5,308.00	1214.23	5,111.00	951.7	4,148.00	1006.96
Rpl32	99,904.00	58305.82	91,732.00	59366.92	78,861.00	46639.15	79,128.00	48603.18	68,666.00	45474.61	92,460.00	54833.92	81,046.00	54113.59	127,888.00	55754.86	70,315.00	48535.18	67,856.00	50318.55	97,337.00	64199.1	104,658.00	60675.82
Pearson's r		<b>0.81542</b>		<b>0.818897</b>		<b>0.875623</b>		<b>0.903698</b>		<b>0.82656592</b>		<b>0.843696342</b>		<b>0.884495098</b>		<b>0.95002575</b>		<b>0.85906948</b>		<b>0.8717497</b>		<b>0.8415195</b>		<b>0.883143</b>

**Supplementary file 4** - Transcriptomic data was validated by Nanostring: 100ng total RNA in 5uL total volume was processed using the standard nCounter XT Total RNA protocol. The Codeset consists of Reporter and Capture probes that hybridise the target sequence of interest, forming a tripartite complex. Hybridised samples were processed in batches of 12 using the High Sensitivity Protocol (3 hours). Raw data was exported and QC-checked using Nanostring's nSolver data analysis tool (www.nanostring.com). As per the Nanostring CodeSet design criteria, 25 candidate genes for validation were chosen, with two housekeeping genes incorporated within this amount (Mnf and Rpl32). Raw data was normalised to the geometric mean of both the positive controls (included in the hybridisation steps) and the nominated housekeeping genes. Normalised Nanostring data (expression level) was compared to transcriptomic data (mean expression level) and the Pearson's correlation coefficient was calculated in R