

Supplementary

Table S1 Genes selected for the study

Gene symbol	Official gene name	RNA Refseq
Cholesterol biosynthesis		
<i>FDFT1</i>	Farnesyl-diphosphate farnesyltransferase 1	NM_004462
<i>FDPS</i>	Farnesyl diphosphate synthase	NM_002004
<i>GGPS1</i>	Geranylgeranyl diphosphate synthase 1	NM_004837
<i>HMGCR</i>	3-hydroxy-3-methylglutaryl-coenzyme-A reductase	NM_000859
<i>INSIG1</i>	Insulin-induced gene 1	NM_005542
<i>LSS</i>	Lanosterol synthase	NM_002340
<i>NSDHL</i>	NAD(P) dependent steroid dehydrogenase-like	NM_015922
<i>SQLE</i>	Squalene epoxidase	NM_003129
Hippo signaling pathway		
<i>LATS1</i>	Large tumor suppressor kinase 1	NM_004690
<i>MOB1A</i>	MOB (Mps one binder) kinase activator 1A	NM_018221
<i>SAV1</i>	Salvador family WW domain containing protein 1	NM_021818
<i>STK3</i>	Serine/threonine kinase 3	NM_006281
<i>WWTR1</i>	WW domain containing transcription regulator 1	NM_015472
<i>YAP1</i>	Yes1 associated transcriptional regulator	NM_006106
YAP/TAZ-regulated genes		
<i>BIRC5</i>	Baculoviral IAP repeat containing 5	NM_001168
<i>CDK6</i>	Cyclin dependent kinase 6	NM_001259

Refseq, reference sequence; YAP, Yes-associated protein; TAZ, transcriptional coactivator with PDZ-binding motif.

Table S2 Correlation among the genes involved in cholesterol biosynthesis

Gene	HN		DCIS	
	r	P value	r	P value
<i>HMGCR</i> *				
<i>FDPS</i>	0.23	0.5517	0.20	0.6044
<i>FDFT1</i>	0.10	0.7963	0.24	0.5422
<i>GGPS1</i> †	0.64	0.0610	0.18	0.6354
<i>SQLE</i> †	0.69	0.0412	-0.06	0.8805
<i>LSS</i> †	-0.65	0.0666	0.44	0.2396
<i>NSDHL</i>	-0.06	0.8810	0.13	0.7313
<i>INSIG1</i> †	0.85	0.0061	0.10	0.8038
<i>FDPS</i> *				
<i>FDFT1</i>	-0.58	0.1017	0.85	0.0034
<i>GGPS1</i>	0.26	0.5003	0.20	0.6134
<i>SQLE</i>	0.33	0.3786	0.34	0.3660
<i>LSS</i>	0.28	0.4630	0.48	0.1942
<i>NSDHL</i>	0.82	0.0068	-0.25	0.5206
<i>INSIG1</i> †	0.25	0.5206	0.61	0.0843
<i>FDFT1</i> *				
<i>GGPS1</i>	-0.06	0.8715	0.21	0.5890
<i>SQLE</i>	0.11	0.7787	0.32	0.3957
<i>LSS</i>	-0.24	0.5274	0.47	0.2057
<i>NSDHL</i>	-0.73	0.0269	-0.49	0.1854
<i>INSIG1</i> †	0.19	0.6183	0.62	0.0773
<i>GGPS1</i> *				
<i>SQLE</i>	0.49	0.1832	-0.69	0.0412
<i>LSS</i>	-0.54	0.1301	0.22	0.5739
<i>NSDHL</i>	0.05	0.9060	0.12	0.7756
<i>INSIG1</i> †	0.61	0.0805	0.07	0.8636
<i>SQLE</i> *				
<i>LSS</i>	-0.46	0.2125	-0.01	0.9914
<i>NSDHL</i>	0.12	0.7548	-0.01	0.9830
<i>INSIG1</i> †	0.89	0.0014	0.51	0.1643
<i>LSS</i> *				
<i>NSDHL</i>	0.33	0.3914	-0.09	0.8138
<i>INSIG1</i> †	-0.60	0.0968	0.53	0.1407
<i>NSDHL</i> *				
<i>INSIG1</i>	0.07	0.8641	-0.24	0.5422

The asterisks indicate the correlation between a given gene and the other genes involved in the biosynthetic pathway. †, the associations reported in *Figure 4*. HN, histologically normal; DCIS, ductal carcinoma in situ.

Table S3 Correlation among the genes involved in cholesterol biosynthesis and the Hippo signaling pathway

Gene	HN		DCIS	
	r	P value	r	P value
<i>HMGCR</i> *				
<i>LATS1</i>	-0.19	0.6183	-0.24	0.5257
<i>MOB1A</i> [†]	0.64	0.0656	0.28	0.4720
<i>SAV1</i>	-0.04	0.9149	-0.04	0.9149
<i>STK3</i>	0.10	0.8100	-0.02	0.9659
<i>WWTR1</i> [†]	0.83	0.0083	-0.21	0.5890
<i>YAP1</i>	0.47	0.2125	-0.09	0.8138
<i>FDPS</i> *				
<i>LATS1</i>	0.20	0.6028	-0.45	0.2296
<i>MOB1A</i> [†]	0.02	0.9489	0.62	0.0857
<i>SAV1</i>	-0.17	0.6669	0.40	0.2912
<i>STK3</i>	0.42	0.2696	-0.18	0.6436
<i>WWTR1</i>	0.05	0.9116	0.53	0.1475
<i>YAP1</i>	-0.13	0.7435	0.33	0.3853
<i>FDFT1</i> *				
<i>LATS1</i>	-0.07	0.8624	-0.45	0.2274
<i>MOB1A</i>	0.01	0.9742	0.27	0.4860
<i>SAV1</i>	0.39	0.3019	0.45	0.2220
<i>STK3</i>	-0.37	0.3274	-0.24	0.5292
<i>WWTR1</i>	0.20	0.6028	0.57	0.1098
<i>YAP1</i>	0.20	0.6028	0.28	0.4720
<i>GGPS1</i> *				
<i>LATS1</i> [†]	-0.24	0.5257	-0.87	0.0026
<i>MOB1A</i>	0.11	0.7797	0.25	0.5206
<i>SAV1</i>	0.36	0.3454	-0.27	0.4933
<i>STK3</i> [†]	0.70	0.0347	-0.85	0.0061
<i>WWTR1</i> [†]	0.76	0.0171	-0.47	0.2125
<i>YAP1</i>	0.50	0.1684	0.37	0.3363
<i>SQLE</i> *				
<i>LATS1</i>	0.34	0.3680	0.60	0.0854
<i>MOB1A</i>	0.23	0.5497	0.14	0.7150
<i>SAV1</i>	0.34	0.3765	0.18	0.6511
<i>STK3</i> [†]	0.43	0.2520	0.71	0.0317
<i>WWTR1</i>	0.61	0.0805	0.60	0.0860
<i>YAP1</i>	0.13	0.7476	-0.51	0.1603
<i>LSS</i> *				
<i>LATS1</i>	0.16	0.6816	-0.57	0.1062
<i>MOB1A</i>	-0.07	0.8641	0.42	0.2624
<i>SAV1</i>	-0.37	0.3296	0.37	0.3296
<i>STK3</i>	-0.15	0.7081	-0.48	0.1942
<i>WWTR1</i> [†]	-0.77	0.0214	0.31	0.4175
<i>YAP1</i> [†]	-0.65	0.0666	0.14	0.7150
<i>NSDHL</i> *				
<i>LATS1</i>	0.05	0.8885	0.17	0.6656
<i>MOB1A</i>	-0.10	0.8047	0.03	0.9484
<i>SAV1</i> [†]	0.02	0.9658	-0.68	0.0503
<i>STK3</i>	0.44	0.2318	0.10	0.8100
<i>WWTR1</i>	-0.03	0.9316	-0.32	0.4101
<i>YAP1</i>	-0.40	0.2839	-0.63	0.0760
<i>INSIG1</i> *				
<i>LATS1</i>	-0.12	0.7631	-0.20	0.5997
<i>MOB1A</i>	0.42	0.2624	0.63	0.0688
<i>SAV1</i>	0.35	0.3537	0.39	0.2928
<i>STK3</i>	0.30	0.4366	-0.13	0.7466
<i>WWTR1</i> [†]	0.78	0.0172	0.36	0.3393
<i>YAP1</i>	0.37	0.3363	0.02	0.9658

The asterisks indicate the correlation between a given gene and the other genes involved in the biosynthetic pathway. [†], the associations reported in Figure 6. HN, histologically normal; DCIS, ductal carcinoma in situ.