

Mechanism of shikonin in hepatocellular carcinoma

Table S1. Differentially expressed proteins in the comparisons of shikonin treated HCC

Name	FC ^a	P value	F-FC ^b	F-L ^c	F-H ^d	R-FC ^e	R-L ^f	R-H ^g
Q53S33	1.36	5.31E-06	1.36	115.4	84.6	1.36	84.7	115.3
Q9BQE4	1.74	6.91E-06	1.73	126.8	73.2	1.74	73	127
Q13206	1.29	7.81E-06	1.29	112.6	87.4	1.29	87.3	112.7
Q13907	1.25	1.02E-05	1.25	111.1	88.9	1.25	89	111
P04792	1.22	1.29E-05	1.22	109.8	90.2	1.22	90.1	109.9
P53621	1.51	2.74E-05	1.51	120.1	79.9	1.51	79.6	120.4
Q01995	1.57	4.02E-05	1.58	122.5	77.5	1.57	77.9	122.1
O43709	1.24	4.45E-05	1.24	110.5	89.5	1.24	89.3	110.7
Q96L91	1.22	5.10E-05	1.22	110	90	1.22	90.2	109.8
Q9H2C0	1.48	5.26E-05	1.49	119.7	80.3	1.48	80.7	119.3
Q9NUQ3	1.31	0.000111	1.32	113.6	86.4	1.3	86.8	113.2
Q86X95	1.5	0.000112	1.49	119.7	80.3	1.51	79.7	120.3
O95817	1.51	0.000148	1.5	120	80	1.52	79.3	120.7
P17980	1.33	0.000156	1.34	114.4	85.6	1.32	86.1	113.9
P02794	2.46	0.000158	2.5	142.9	57.1	2.42	58.6	141.4
Q96N67	1.47	0.000169	1.46	118.7	81.3	1.48	80.6	119.4
Q12830	1.95	0.000175	1.97	132.7	67.3	1.92	68.5	131.5
Q6PCE3	1.36	0.000197	1.36	115.4	84.6	1.35	85.2	114.8
Q13885	1.28	0.000212	1.27	111.9	88.1	1.28	87.6	112.4
Q5W0Z9	2.13	0.000309	2.09	135.3	64.7	2.18	62.9	137.1
Q9UGU5	1.31	0.000349	1.32	113.6	86.4	1.3	87.1	112.9
P50452	1.21	0.00035	1.22	109.7	90.3	1.2	90.8	109.2
Q9GZR7	1.58	0.000359	1.56	121.8	78.2	1.6	77	123
P46821	2.18	0.000399	2.13	136.1	63.9	2.23	61.8	138.2
P17275	1.64	0.000685	1.67	125.2	74.8	1.61	76.6	123.4
O76021	1.45	0.000715	1.48	119.2	80.8	1.43	82.2	117.8
O95602	1.23	0.000725	1.23	110.1	89.9	1.25	89.1	110.9
Q7L3B6	1.34	0.000832	1.36	115.3	84.7	1.33	85.9	114.1
Q9BS26	1.21	0.000924	1.2	108.9	91.1	1.22	90.3	109.7
P62993	1.29	0.000929	1.28	112.2	87.8	1.31	86.7	113.3
P11387	1.67	0.000959	1.63	124	76	1.71	73.8	126.2
Q14573	1.28	0.00099	1.27	111.8	88.2	1.3	87.1	112.9
Q969X6	1.45	0.00106	1.48	119.3	80.7	1.43	82.4	117.6
Q8IZP0	1.36	0.001073	1.34	114.4	85.6	1.38	84.2	115.8
Q9P270	1.36	0.001192	1.38	116.1	83.9	1.34	85.4	114.6
P48507	2.04	0.001303	1.97	132.5	67.5	2.13	64	136
O00459	1.68	0.001318	1.63	124	76	1.72	73.4	126.6
Q96HA1	1.21	0.001442	1.19	108.8	91.2	1.22	90.2	109.8
Q9NQ29	1.32	0.001463	1.3	113.1	86.9	1.34	85.4	114.6
Q9BYG3	1.23	0.001465	1.24	110.7	89.3	1.21	90.4	109.6
Q71RC2	1.4	0.001605	1.38	115.8	84.2	1.43	82.3	117.7
O95707	1.32	0.001652	1.3	113.1	86.9	1.35	85.3	114.7
Q9Y5X2	1.35	0.001656	1.37	115.6	84.4	1.32	86.1	113.9
P07339	1.29	0.001753	1.27	111.9	88.1	1.31	86.6	113.4
P02792	2.86	0.001805	3.09	151.1	48.9	2.66	54.7	145.3
P25685	1.92	0.00201	2.01	133.5	66.5	1.84	70.5	129.5
Q15527	1.27	0.002252	1.29	112.7	87.3	1.25	88.9	111.1

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Q04721	1.28	0.002322	1.31	113.3	86.7	1.26	88.4	111.6
P82970	1.36	0.002331	1.39	116.4	83.6	1.33	85.7	114.3
O60885	1.26	0.00237	1.24	110.8	89.2	1.28	87.6	112.4
Q15910	1.33	0.002436	1.31	113.3	86.7	1.36	84.7	115.3
Q6P4R8	1.37	0.002445	1.34	114.6	85.4	1.4	83.2	116.8
Q92598	1.5	0.002466	1.45	118.5	81.5	1.54	78.7	121.3
Q92793	1.35	0.002524	1.32	113.7	86.3	1.38	84.2	115.8
Q9Y5Q8	1.58	0.002541	1.53	120.8	79.2	1.63	76	124
Q9NV06	1.67	0.002562	1.61	123.3	76.7	1.73	73.1	126.9
Q9UHY1	1.25	0.002587	1.27	111.9	88.1	1.23	89.7	110.3
Q13200	1.31	0.002773	1.34	114.4	85.6	1.28	87.6	112.4
Q8N6T7	2	0.002806	2.12	135.8	64.2	1.89	69.2	130.8
Q9H3C7	1.72	0.003013	1.79	128.4	71.6	1.64	75.7	124.3
Q8TF74	2.39	0.003032	2.59	144.2	55.8	2.21	62.2	137.8
Q9P035	1.26	0.003048	1.28	112.4	87.6	1.24	89.4	110.6
P51784	1.53	0.003117	1.58	122.5	77.5	1.48	80.8	119.2
Q9Y2K7	2.7	0.003154	2.46	142.2	57.8	2.96	50.5	149.5
Q92890	1.25	0.003157	1.23	110.4	89.6	1.28	87.8	112.2
Q5T310	1.3	0.003173	1.28	112.1	87.9	1.33	85.8	114.2
Q7Z739	1.25	0.003271	1.27	112	88	1.23	89.8	110.2
P35251	1.4	0.003271	1.36	115.3	84.7	1.44	82	118
O00220	1.24	0.003391	1.27	111.8	88.2	1.22	90	110
Q9NQ55	1.61	0.003469	1.68	125.3	74.7	1.54	78.6	121.4
Q9NV31	1.61	0.003499	1.67	125.2	74.8	1.54	78.7	121.3
O95361	1.34	0.00362	1.31	113.4	86.6	1.38	84.1	115.9
Q7Z4S6	1.67	0.003663	1.59	122.9	77.1	1.75	72.8	127.2
Q9H2J7	1.38	0.003854	1.42	117.3	82.7	1.34	85.5	114.5
Q96I51	1.28	0.003975	1.25	111.2	88.8	1.31	86.6	113.4
P46734	1.35	0.004052	1.31	113.6	86.4	1.39	83.7	116.3
Q9UHR4	1.28	0.004107	1.31	113.2	86.8	1.25	89	111
Q8IX18	1.76	0.004287	1.66	124.9	75.1	1.86	70	130
Q15121	1.35	0.004385	1.31	113.5	86.5	1.39	83.7	116.3
Q00534	1.83	0.004535	1.95	132.1	67.9	1.72	73.5	126.5
Q9H0U3	1.26	0.004544	1.23	110.4	89.6	1.29	87.4	112.6
Q96TA2	1.46	0.004552	1.52	120.6	79.4	1.41	83	117
PODMV9	2.15	0.004829	2.34	140.1	59.9	1.98	67.1	132.9
Q6ZXV5	1.32	0.004855	1.28	112.3	87.7	1.35	85	115
O95801	1.26	0.005006	1.23	110.3	89.7	1.29	87.4	112.6
Q96CN9	2.33	0.005012	2.56	143.8	56.2	2.12	64.2	135.8
Q9NX55	1.53	0.005176	1.47	118.9	81.1	1.6	76.8	123.2
Q9NYP7	1.23	0.005308	1.2	109.1	90.9	1.25	88.8	111.2
Q9NXV2	2.54	0.005813	2.85	148.1	51.9	2.26	61.3	138.7
Q08AM6	1.31	0.005847	1.27	111.9	88.1	1.35	85.2	114.8
P35610	1.34	0.005951	1.3	113	87	1.39	83.8	116.2
Q8WWK9	1.94	0.006116	1.79	128.4	71.6	2.1	64.5	135.5
P43686	1.25	0.006116	1.29	112.5	87.5	1.22	90	110
Q8WTT2	1.23	0.006357	1.25	111.3	88.7	1.2	91	109
Q9HBH0	1.97	0.006379	2.14	136.3	63.7	1.81	71.1	128.9
O00267	1.2	0.006381	1.23	110.3	89.7	1.18	91.8	108.2

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Q8TED0	1.27	0.006536	1.23	110.4	89.6	1.3	86.9	113.1
Q9BTC0	1.34	0.006621	1.39	116.4	83.6	1.3	87	113
O14745	1.23	0.006718	1.2	109.1	90.9	1.26	88.5	111.5
Q9H8H2	1.48	0.006762	1.55	121.5	78.5	1.41	83	117
Q8N6N3	1.63	0.006849	1.53	121	79	1.73	73.4	126.6
Q9NQ84	2.17	0.007034	2.41	141.3	58.7	1.96	67.5	132.5
P62195	1.24	0.007037	1.21	109.6	90.4	1.28	87.8	112.2
Q03519	1.43	0.007338	1.49	119.8	80.2	1.37	84.5	115.5
Q9H2D6	1.49	0.007339	1.42	117.3	82.7	1.57	77.9	122.1
Q13867	1.23	0.007354	1.26	111.5	88.5	1.2	91	109
Q8TCJ2	1.23	0.007498	1.26	111.4	88.6	1.2	91.1	108.9
Q96QG7	1.42	0.007505	1.49	119.6	80.4	1.36	84.7	115.3
Q9H6W3	2.24	0.007523	2.5	142.8	57.2	2.01	66.6	133.4
Q4LE39	1.51	0.007836	1.59	122.8	77.2	1.43	82.3	117.7
Q969S3	1.65	0.007847	1.77	127.7	72.3	1.55	78.5	121.5
Q9C0J8	1.38	0.008058	1.44	118.1	81.9	1.33	86	114
O15213	1.21	0.008222	1.24	110.5	89.5	1.18	91.9	108.1
Q9H9T3	1.24	0.008609	1.27	112	88	1.2	90.8	109.2
Q9UDY4	1.77	0.008741	1.64	124.1	75.9	1.92	68.5	131.5
O75351	1.47	0.00875	1.4	116.6	83.4	1.55	78.3	121.7
Q9UHQ9	1.41	0.008925	1.48	119.4	80.6	1.35	85.2	114.8
P63000	1.28	0.00895	1.32	113.9	86.1	1.24	89.4	110.6
Q9BZE4	1.38	0.008963	1.44	118.1	81.9	1.32	86.2	113.8
Q5QJE6	1.39	0.009096	1.33	114	86	1.45	81.6	118.4
Q9NVP1	1.3	0.00945	1.35	114.8	85.2	1.25	88.8	111.2
Q99614	1.35	0.00952	1.29	112.7	87.3	1.4	83.2	116.8
Q9BYJ9	1.57	0.009609	1.47	119.1	80.9	1.68	74.7	125.3
O43474	1.87	0.009663	2.06	134.6	65.4	1.71	73.9	126.1
Q86U38	1.26	0.009881	1.31	113.3	86.7	1.22	90	110
P36543	1.27	0.010051	1.32	113.6	86.4	1.23	89.8	110.2
Q9Y520	1.24	0.010051	1.21	109.3	90.7	1.28	87.6	112.4
P49585	1.74	0.010124	1.89	130.7	69.3	1.6	77	123
P17535	1.31	0.010197	1.37	115.5	84.5	1.26	88.4	111.6
P50454	1.29	0.010838	1.35	114.7	85.3	1.24	89.1	110.9
Q8NCA5	1.25	0.011163	1.29	112.6	87.4	1.21	90.7	109.3
P48729	1.33	0.011628	1.4	116.5	83.5	1.28	87.9	112.1
P46379	1.68	0.011765	1.54	121.3	78.7	1.82	70.9	129.1
P51149	1.21	0.011812	1.24	110.8	89.2	1.17	92.1	107.9
Q13445	1.45	0.011975	1.54	121.1	78.9	1.37	84.6	115.4
Q9NYH9	1.41	0.012237	1.34	114.4	85.6	1.49	80.2	119.8
P14373	1.26	0.012237	1.31	113.2	86.8	1.21	90.4	109.6
P47712	1.23	0.01247	1.19	108.7	91.3	1.27	88	112
Q8WW22	1.33	0.013512	1.4	116.5	83.5	1.27	88.2	111.8
Q9P265	1.26	0.013721	1.31	113.6	86.4	1.22	90.3	109.7
Q14764	2.43	0.013767	2.88	148.4	51.6	2.05	65.5	134.5
O00116	1.27	0.014061	1.32	113.8	86.2	1.22	90.2	109.8
O95470	1.3	0.014233	1.36	115.1	84.9	1.24	89.3	110.7
Q14807	1.25	0.014336	1.2	109.2	90.8	1.3	87	113
Q9NY93	1.3	0.014843	1.25	110.9	89.1	1.37	84.5	115.5

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Q16222	1.41	0.014982	1.32	113.9	86.1	1.49	80.2	119.8
Q9H7B2	1.44	0.015051	1.35	114.8	85.2	1.54	78.9	121.1
O75691	1.81	0.01532	1.62	123.7	76.3	2.03	66.1	133.9
Q9BYN0	1.55	0.015446	1.43	117.8	82.2	1.68	74.5	125.5
P23921	1.27	0.015547	1.22	109.9	90.1	1.33	85.8	114.2
P17844	1.34	0.015699	1.27	111.9	88.1	1.41	82.9	117.1
O75128	1.44	0.015826	1.35	114.8	85.2	1.54	78.7	121.3
Q6WKZ4	1.49	0.01609	1.6	123.1	76.9	1.38	84	116
Q96RK0	1.53	0.016282	1.41	117	83	1.65	75.4	124.6
Q92597	1.21	0.0163	1.25	111	89	1.16	92.4	107.6
Q969Y2	1.27	0.016393	1.22	109.8	90.2	1.33	85.8	114.2
Q7KZI7	1.36	0.016761	1.44	117.9	82.1	1.28	87.7	112.3
Q8TDD1	1.26	0.017176	1.32	113.6	86.4	1.21	90.7	109.3
Q14690	1.76	0.017412	1.97	132.7	67.3	1.57	77.7	122.3
Q15012	1.61	0.017513	1.76	127.6	72.4	1.46	81.2	118.8
O15498	1.28	0.017627	1.34	114.7	85.3	1.22	90	110
Q02880	1.53	0.017661	1.67	125	75	1.41	83	117
Q9BXJ9	1.27	0.018491	1.22	109.7	90.3	1.34	85.6	114.4
Q49B96	1.69	0.018835	1.88	130.7	69.3	1.52	79.4	120.6
Q9BTT4	1.3	0.019132	1.23	110.5	89.5	1.37	84.3	115.7
Q8N1G2	1.31	0.019138	1.38	116	84	1.24	89.3	110.7
Q9Y3C7	1.22	0.019419	1.17	107.8	92.2	1.27	88.3	111.7
Q8IZH2	1.23	0.019784	1.29	112.5	87.5	1.18	91.7	108.3
Q6R327	1.4	0.019871	1.51	120.2	79.8	1.31	86.6	113.4
Q16666	1.75	0.01998	1.97	132.6	67.4	1.55	78.4	121.6
Q12929	1.42	0.020082	1.52	120.7	79.3	1.32	86.3	113.7
P48556	1.22	0.020196	1.17	107.8	92.2	1.27	88.2	111.8
Q12913	1.67	0.020329	1.87	130.3	69.7	1.5	80	120
Q7Z2W4	1.42	0.020526	1.32	113.7	86.3	1.53	79.2	120.8
Q86YP4	1.21	0.020602	1.17	107.7	92.3	1.26	88.3	111.7
O14965	1.23	0.020902	1.29	112.5	87.5	1.18	91.8	108.2
O75410	1.2	0.021109	1.16	107.2	92.8	1.25	89	111
Q9Y5B8	1.25	0.021128	1.2	108.9	91.1	1.32	86.4	113.6
Q8WVX9	2.1	0.021612	1.77	127.8	72.2	2.49	57.3	142.7
P25490	1.59	0.022323	1.44	117.9	82.1	1.77	72.3	127.7
Q96T37	1.24	0.022331	1.18	108.4	91.6	1.3	87	113
P16401	2.78	0.022615	2.14	136.4	63.6	3.6	43.5	156.5
Q9Y2P8	1.33	0.022761	1.41	117.1	82.9	1.25	89	111
Q6UXV4	1.2	0.023311	1.15	107.1	92.9	1.25	88.9	111.1
O95478	1.45	0.023501	1.58	122.4	77.6	1.33	85.7	114.3
P07305	1.53	0.023541	1.69	125.7	74.3	1.39	83.6	116.4
Q8N5A5	1.7	0.023724	1.92	131.4	68.6	1.5	80	120
P01130	1.35	0.024284	1.26	111.4	88.6	1.44	82	118
Q96BH1	2.2	0.024687	1.81	128.7	71.3	2.67	54.5	145.5
Q8TAD4	1.21	0.025782	1.27	111.7	88.3	1.16	92.7	107.3
Q9H3R2	1.24	0.025921	1.3	113	87	1.18	91.9	108.1
Q9BXF6	1.29	0.02613	1.37	115.6	84.4	1.21	90.3	109.7
O00567	1.37	0.026136	1.27	112	88	1.48	80.7	119.3
Q8NB16	1.36	0.026583	1.47	118.9	81.1	1.26	88.3	111.7

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Q9BX40	1.39	0.026622	1.51	120.2	79.8	1.29	87.5	112.5
P78344	1.21	0.026858	1.15	107.1	92.9	1.26	88.5	111.5
P26196	1.32	0.027421	1.23	110.5	89.5	1.41	82.9	117.1
O00487	1.21	0.027521	1.27	111.9	88.1	1.16	92.7	107.3
Q8N6L1	1.58	0.027613	1.78	127.9	72.1	1.41	82.9	117.1
Q9BQG0	1.4	0.02815	1.51	120.5	79.5	1.29	87.5	112.5
Q8N5F7	2.32	0.02821	2.91	148.9	51.1	1.85	70.2	129.8
Q9NYF3	1.65	0.028581	1.87	130.3	69.7	1.45	81.6	118.4
O96005	1.27	0.028684	1.35	115	85	1.2	90.9	109.1
Q9NX01	1.51	0.029295	1.36	115.2	84.8	1.67	74.8	125.2
P45985	1.24	0.029336	1.32	113.6	86.4	1.18	91.8	108.2
Q9Y2X3	1.26	0.029857	1.34	114.5	85.5	1.19	91.3	108.7
Q9H2J4	1.21	0.029857	1.27	112	88	1.16	92.8	107.2
Q9GZR2	1.25	0.030374	1.18	108.3	91.7	1.32	86.1	113.9
Q9BRX2	1.24	0.030393	1.17	108	92	1.31	86.6	113.4
P51608	1.45	0.030487	1.32	113.6	86.4	1.59	77.2	122.8
Q9UL63	1.3	0.031608	1.4	116.6	83.4	1.22	90.2	109.8
Q13501	2.1	0.031755	2.58	144.1	55.9	1.7	74	126
Q9NR30	1.32	0.03194	1.23	110.3	89.7	1.42	82.5	117.5
O95297	1.21	0.033186	1.28	112.2	87.8	1.15	92.9	107.1
P11388	1.7	0.033363	1.47	119	81	1.97	67.3	132.7
Q8TD16	1.25	0.034052	1.18	108.2	91.8	1.33	85.8	114.2
O15270	1.42	0.034089	1.57	122	78	1.29	87.3	112.7
O75683	1.27	0.034107	1.35	114.9	85.1	1.19	91.4	108.6
O95999	1.52	0.0347	1.71	126.3	73.7	1.36	84.9	115.1
Q5M775	1.26	0.035822	1.18	108.3	91.7	1.34	85.4	114.6
P31350	1.24	0.035851	1.32	113.9	86.1	1.17	92.1	107.9
Q9Y324	1.22	0.03592	1.29	112.5	87.5	1.15	92.9	107.1
Q9BXB4	1.24	0.036482	1.17	107.8	92.2	1.32	86.2	113.8
P29373	1.23	0.036549	1.16	107.4	92.6	1.3	86.9	113.1
Q08AD1	1.43	0.03817	1.29	112.7	87.3	1.59	77.2	122.8
Q9Y287	1.99	0.0382	2.46	142.2	57.8	1.62	76.5	123.5
Q6DKI1	1.25	0.038312	1.33	114.2	85.8	1.17	92.1	107.9
Q9Y487	1.34	0.038974	1.46	118.8	81.2	1.23	89.6	110.4
Q99543	1.54	0.038991	1.75	127.3	72.7	1.35	84.9	115.1
Q8N6T3	1.46	0.039163	1.63	123.9	76.1	1.3	86.8	113.2
O43752	1.25	0.039286	1.34	114.5	85.5	1.17	92	108
Q8N5K1	1.35	0.040842	1.47	119.1	80.9	1.23	89.6	110.4
Q9UBB5	1.21	0.040952	1.15	106.8	93.2	1.29	87.5	112.5
Q9H9L3	1.51	0.041464	1.72	126.4	73.6	1.33	85.7	114.3
Q15276	1.22	0.041902	1.15	106.8	93.2	1.29	87.4	112.6
O75312	1.23	0.04243	1.31	113.4	86.6	1.16	92.8	107.2
Q96QC0	1.22	0.043096	1.3	113.1	86.9	1.15	93	107
Q8WWQ0	2.06	0.043768	1.62	123.7	76.3	2.61	55.4	144.6
Q9NZW5	1.7	0.043779	2.01	133.5	66.5	1.43	82.2	117.8
Q8TD30	1.28	0.044476	1.38	115.9	84.1	1.18	91.6	108.4
P40818	1.25	0.044597	1.34	114.4	85.6	1.17	92.4	107.6
Q9UIGO	2.03	0.045774	2.57	144	56	1.6	77	123
P62256	1.27	0.046658	1.38	115.8	84.2	1.18	91.8	108.2

Mechanism of shikonin in hepatocellular carcinoma

Q13823	1.64	0.046658	1.93	131.6	68.4	1.39	83.6	116.4
Q9UK22	1.26	0.04729	1.17	107.9	92.1	1.36	84.7	115.3
Q9Y6A4	1.28	0.048217	1.18	108.2	91.8	1.38	84	116
P05067	1.23	0.049478	1.31	113.6	86.4	1.15	93.1	106.9
Q9Y666	-1.2	0.000241	0.83	90.7	109.3	0.84	108.9	91.1
Q8N1F7	-1.2	0.004855	0.82	90	110	0.85	108.2	91.8
Q15365	-1.2	0.010051	0.81	89.6	110.4	0.86	107.8	92.2
P31040	-1.2	0.023311	0.8	88.9	111.1	0.87	107.1	92.9
Q8TE02	-1.2	0.000236	0.83	90.6	109.4	0.84	109	91
Q96IZ7	-1.2	0.043326	0.88	93.6	106.4	0.79	112	88
O75436	-1.2	0.046261	0.88	93.7	106.3	0.78	112.1	87.9
Q12962	-1.21	0.001442	0.84	91.2	108.8	0.82	109.8	90.2
Q9GZY8	-1.21	0.023202	0.8	88.6	111.4	0.86	107.3	92.7
O95239	-1.21	0.037896	0.79	88	112	0.87	106.7	93.3
Q03135	-1.21	0.00805	0.81	89.4	110.6	0.85	108.2	91.8
O14964	-1.21	0.031082	0.79	88.2	111.8	0.87	107	93
Q06124	-1.21	0.010051	0.81	89.2	110.8	0.85	108.1	91.9
Q99567	-1.21	0.027194	0.79	88.3	111.7	0.87	107.2	92.8
P49959	-1.21	0.000498	0.82	90.2	109.8	0.83	109.2	90.8
P30837	-1.21	0.001654	0.84	91	109	0.82	110.1	89.9
O43663	-1.21	0.044546	0.88	93.4	106.6	0.78	112.5	87.5
O75208	-1.21	0.000217	0.82	90.2	109.8	0.83	109.4	90.6
P28065	-1.21	0.006501	0.81	89.3	110.7	0.84	108.5	91.5
Q6PL18	-1.21	0.02102	0.79	88.4	111.6	0.86	107.6	92.4
Q9NRS6	-1.21	0.025268	0.86	92.6	107.4	0.79	111.8	88.2
Q5VW32	-1.21	0.00162	0.82	89.8	110.2	0.83	109.1	90.9
Q96NB3	-1.21	0.038288	0.78	87.6	112.4	0.87	106.9	93.1
P51692	-1.21	0.007566	0.84	91.5	108.5	0.8	110.9	89.1
Q00796	-1.21	0.024768	0.79	88.1	111.9	0.86	107.5	92.5
O95630	-1.22	1.31E-05	0.82	90.2	109.8	0.82	109.7	90.3
P34896	-1.22	0.017529	0.85	92.1	107.9	0.79	111.6	88.4
Q9H267	-1.22	0.03592	0.78	87.5	112.5	0.87	107.1	92.9
P36776	-1.22	0.029568	0.86	92.6	107.4	0.78	112.3	87.7
O00148	-1.22	0.005063	0.84	91.1	108.9	0.8	110.9	89.1
Q9UK41	-1.22	0.014425	0.79	88.4	111.6	0.85	108.2	91.8
Q96RN5	-1.22	0.015117	0.85	91.8	108.2	0.79	111.7	88.3
Q15006	-1.22	0.000799	0.81	89.6	110.4	0.82	109.6	90.4
Q7Z434	-1.22	0.003185	0.81	89.2	110.8	0.83	109.2	90.8
P42166	-1.22	0.032177	0.78	87.4	112.6	0.86	107.4	92.6
P54725	-1.22	0.002393	0.81	89.2	110.8	0.83	109.4	90.6
Q8IVM0	-1.22	0.008182	0.84	91.2	108.8	0.8	111.4	88.6
O15533	-1.23	0.004352	0.83	90.8	109.2	0.8	111.1	88.9
Q7Z2Z2	-1.23	0.027918	0.78	87.4	112.6	0.86	107.7	92.3
P21912	-1.23	0.000297	0.82	90	110	0.81	110.5	89.5
O43708	-1.23	0.001437	0.82	90.3	109.7	0.81	110.8	89.2
Q8IX01	-1.23	0.032683	0.86	92.4	107.6	0.77	113	87
PODMN0	-1.23	0.009671	0.79	88.2	111.8	0.84	108.9	91.1
Q9BSJ2	-1.23	0.01247	0.84	91.3	108.7	0.79	112	88
P28340	-1.23	0.019056	0.78	87.6	112.4	0.85	108.3	91.7

Mechanism of shikonin in hepatocellular carcinoma

Q9UBB9	-1.23	0.00166	0.8	89	111	0.82	109.8	90.2
P29353	-1.23	0.007722	0.79	88.3	111.7	0.83	109.1	90.9
O00264	-1.23	0.000103	0.81	89.7	110.3	0.81	110.6	89.4
P56378	-1.23	0.001132	0.8	89	111	0.82	110	90
O43824	-1.23	0.001629	0.8	88.9	111.1	0.82	109.9	90.1
Q9HB07	-1.24	0.034605	0.76	86.6	113.4	0.86	107.7	92.3
P26885	-1.24	0.007437	0.79	88.1	111.9	0.83	109.3	90.7
P20020	-1.24	0.008609	0.79	88	112	0.83	109.2	90.8
P36404	-1.24	0.038647	0.86	92.4	107.6	0.76	113.7	86.3
Q9NWZ3	-1.24	0.019419	0.84	91.4	108.6	0.77	112.9	87.1
Q16698	-1.24	0.025001	0.77	86.8	113.2	0.85	108.3	91.7
O43819	-1.24	0.045283	0.75	85.9	114.1	0.86	107.4	92.6
Q9C0B1	-1.24	0.025761	0.85	91.7	108.3	0.76	113.3	86.7
P07203	-1.25	0.030903	0.76	86.2	113.8	0.85	108.2	91.8
Q15631	-1.25	1.02E-05	0.8	88.9	111.1	0.8	111	89
Q9Y2Q3	-1.25	0.047927	0.86	92.5	107.5	0.75	114.6	85.4
P18846	-1.25	0.001013	0.81	89.4	110.6	0.79	111.6	88.4
Q9NVE7	-1.25	0.046288	0.75	85.4	114.6	0.86	107.6	92.4
Q96ES7	-1.25	0.031149	0.75	86	114	0.85	108.3	91.7
Q9Y296	-1.25	0.003962	0.78	87.8	112.2	0.82	110.2	89.8
Q9UPQ0	-1.25	0.00885	0.77	87.3	112.7	0.82	109.7	90.3
Q9C0B5	-1.25	0.000247	0.79	88.5	111.5	0.8	111	89
O15357	-1.26	0.000242	0.8	88.9	111.1	0.79	111.6	88.4
O14980	-1.26	0.015923	0.83	90.7	109.3	0.76	113.4	86.6
Q5R3I4	-1.26	0.040904	0.74	85.3	114.7	0.85	108	92
Q0ZGT2	-1.26	0.045595	0.74	85.1	114.9	0.85	107.8	92.2
Q8N3D4	-1.26	0.032925	0.75	85.6	114.4	0.85	108.4	91.6
Q93096	-1.26	0.04404	0.74	85.1	114.9	0.85	107.9	92.1
O94763	-1.26	0.027651	0.75	85.8	114.2	0.84	108.7	91.3
P16949	-1.26	0.004544	0.81	89.6	110.4	0.78	112.6	87.4
Q969Z0	-1.26	0.048058	0.86	92.2	107.8	0.74	115.2	84.8
Q9NSE4	-1.26	0.000234	0.8	88.7	111.3	0.79	111.8	88.2
Q9NUM3	-1.26	0.008885	0.77	86.9	113.1	0.82	110	90
P41240	-1.26	0.006221	0.81	89.7	110.3	0.77	112.9	87.1
P21333	-1.26	0.002066	0.8	89.1	110.9	0.78	112.4	87.6
P41214	-1.26	0.018144	0.76	86.1	113.9	0.83	109.4	90.6
Q96ER9	-1.27	0.048139	0.85	92	108	0.73	115.6	84.4
Q8IZ73	-1.27	0.003198	0.77	87.2	112.8	0.8	110.9	89.1
Q6P3X3	-1.27	0.027725	0.74	85.3	114.7	0.84	109	91
Q96CU9	-1.28	0.024003	0.83	90.6	109.4	0.74	114.8	85.2
P04150	-1.28	0.001428	0.79	88.5	111.5	0.77	112.8	87.2
P33527	-1.28	0.000408	0.79	88.1	111.9	0.78	112.6	87.4
Q8WUB8	-1.28	0.013715	0.81	89.8	110.2	0.75	114.3	85.7
P68402	-1.28	0.013715	0.82	89.8	110.2	0.75	114.3	85.7
Q8IY17	-1.28	0.007784	0.76	86.1	113.9	0.81	110.8	89.2
Q96H79	-1.28	0.013498	0.75	85.6	114.4	0.81	110.3	89.7
O75369	-1.28	0.005451	0.8	88.9	111.1	0.76	113.7	86.3
Q8IZ69	-1.28	0.015941	0.74	85.3	114.7	0.82	110.2	89.8
Q16822	-1.29	0.003185	0.76	86.5	113.5	0.79	111.5	88.5

Mechanism of shikonin in hepatocellular carcinoma

Q7Z7H5	-1.29	0.023176	0.74	84.7	115.3	0.82	109.8	90.2
Q01082	-1.29	0.000195	0.78	87.6	112.4	0.77	112.9	87.1
Q15043	-1.29	0.000632	0.77	86.9	113.1	0.78	112.2	87.8
Q9H9B1	-1.29	0.019719	0.82	89.9	110.1	0.74	115.2	84.8
Q96CP2	-1.29	0.001516	0.79	88	112	0.76	113.4	86.6
Q9Y490	-1.29	0.002502	0.76	86.4	113.6	0.79	111.8	88.2
O60831	-1.29	0.036645	0.72	83.7	116.3	0.83	109.2	90.8
Q9P086	-1.29	0.028097	0.73	84.1	115.9	0.82	109.7	90.3
O00291	-1.3	0.048396	0.71	83	117	0.84	108.7	91.3
Q13085	-1.3	0.00027	0.77	86.8	113.2	0.78	112.6	87.4
O75376	-1.3	0.023638	0.72	84	116	0.81	110.2	89.8
P23743	-1.3	0.000874	0.76	86.3	113.7	0.78	112.6	87.4
P49757	-1.3	0.005577	0.75	85.4	114.6	0.79	111.8	88.2
O43493	-1.31	0.000178	0.77	87	113	0.76	113.5	86.5
O95613	-1.31	0.007159	0.79	88.3	111.7	0.74	114.9	85.1
A9UHW6	-1.31	0.024508	0.81	89.7	110.3	0.72	116.3	83.7
Q9Y657	-1.31	0.044376	0.7	82.6	117.4	0.83	109.2	90.8
Q07960	-1.31	0.001751	0.77	87.3	112.7	0.75	114.3	85.7
Q8IXM2	-1.31	0.041202	0.7	82.5	117.5	0.83	109.5	90.5
Q00653	-1.31	0.00017	0.76	86.2	113.8	0.77	113.3	86.7
Q9HA77	-1.31	0.013508	0.73	84.2	115.8	0.8	111.3	88.7
Q9P2T1	-1.31	0.002692	0.78	87.4	112.6	0.75	114.6	85.4
Q9H845	-1.32	0.029857	0.81	89.8	110.2	0.71	117	83
O00458	-1.32	0.017006	0.72	83.8	116.2	0.8	111.1	88.9
O15235	-1.32	0.00893	0.73	84.4	115.6	0.79	111.9	88.1
Q9NRM1	-1.32	5.86E-05	0.76	86.3	113.7	0.75	114	86
P49588	-1.32	0.018348	0.72	83.4	116.6	0.8	111.2	88.8
Q02388	-1.32	0.032567	0.81	89.7	110.3	0.7	117.6	82.4
Q9BYT8	-1.33	0.006467	0.73	84.4	115.6	0.78	112.4	87.6
Q69YN2	-1.33	0.013228	0.72	83.7	116.3	0.79	111.7	88.3
Q9Y4U1	-1.33	0.030059	0.81	89.4	110.6	0.7	117.7	82.3
Q9H3H3	-1.33	0.033991	0.81	89.6	110.4	0.7	118	82
O43294	-1.33	0.000301	0.76	86.1	113.9	0.75	114.6	85.4
Q9Y315	-1.33	0.006992	0.72	84	116	0.78	112.6	87.4
O60671	-1.33	0.009639	0.72	83.7	116.3	0.78	112.3	87.7
Q99541	-1.33	0.030258	0.81	89.3	110.7	0.7	117.9	82.1
Q96DC8	-1.34	0.005382	0.77	87.1	112.9	0.73	115.9	84.1
Q9HAV4	-1.34	0.02102	0.7	82.6	117.4	0.8	111.4	88.6
O95208	-1.34	0.002594	0.73	84.4	115.6	0.76	113.5	86.5
Q02252	-1.34	0.00367	0.77	86.7	113.3	0.73	115.8	84.2
O95571	-1.34	0.037859	0.81	89.5	110.5	0.68	118.8	81.2
Q8N201	-1.35	0.004733	0.76	86.6	113.4	0.72	116.3	83.7
Q96RQ3	-1.35	9.01E-05	0.74	85.3	114.7	0.74	115.1	84.9
P25325	-1.35	0.000447	0.75	85.4	114.6	0.73	115.5	84.5
Q15021	-1.36	0.031773	0.8	88.8	111.2	0.68	119	81
Q9UPN3	-1.36	0.026041	0.79	88.3	111.7	0.68	118.8	81.2
O60437	-1.36	0.007623	0.71	82.8	117.2	0.76	113.4	86.6
P19838	-1.36	0.034658	0.8	88.8	111.2	0.67	119.5	80.5
Q9NVA1	-1.36	0.006762	0.71	82.8	117.2	0.76	113.6	86.4

Mechanism of shikonin in hepatocellular carcinoma

P41252	-1.37	0.00465	0.76	86	114	0.71	117	83
Q9H3S7	-1.37	0.002272	0.75	85.5	114.5	0.72	116.6	83.4
Q15149	-1.37	0.009798	0.76	86.6	113.4	0.7	117.8	82.2
O75381	-1.37	0.004211	0.71	82.8	117.2	0.75	114.3	85.7
Q09666	-1.38	0.000244	0.72	83.8	116.2	0.73	115.5	84.5
Q8TD19	-1.38	0.029323	0.67	80.1	119.9	0.79	112	88
O00170	-1.39	0.002081	0.74	84.8	115.2	0.71	117.3	82.7
Q5BKU9	-1.4	0.044656	0.64	78.2	121.8	0.79	111.5	88.5
Q8TEM1	-1.4	0.001449	0.73	84.2	115.8	0.7	117.6	82.4
Q96HY7	-1.41	0.009134	0.74	85.4	114.6	0.68	119.2	80.8
Q12768	-1.41	0.015393	0.67	80.1	119.9	0.76	113.9	86.1
Q8TB61	-1.41	0.013142	0.67	80.1	119.9	0.75	114.3	85.7
Q9BW92	-1.42	6.68E-05	0.71	82.9	117.1	0.7	117.5	82.5
Q86UV5	-1.42	0.009824	0.74	85.1	114.9	0.67	119.8	80.2
Q9UK61	-1.42	0.025892	0.65	78.5	121.5	0.76	113.4	86.6
Q9UBY9	-1.43	0.006116	0.73	84.4	115.6	0.67	119.5	80.5
P42229	-1.43	0.000891	0.71	83	117	0.69	118.5	81.5
Q9H467	-1.43	0.003791	0.68	80.7	119.3	0.72	116.2	83.8
Q5PRF9	-1.44	6.24E-05	0.69	81.9	118.1	0.7	117.7	82.3
Q8IV48	-1.44	0.00025	0.7	82.5	117.5	0.69	118.3	81.7
O75909	-1.44	0.033765	0.63	77.2	122.8	0.77	113.2	86.8
Q6PI98	-1.45	0.038476	0.62	76.6	123.4	0.77	113	87
Q68CP9	-1.45	0.005856	0.72	83.6	116.4	0.66	120.4	79.6
P98082	-1.45	0.015705	0.64	78.3	121.7	0.74	115.1	84.9
O43674	-1.47	0.006116	0.71	83.2	116.8	0.65	121	79
Q9BSY4	-1.47	0.042174	0.77	86.7	113.3	0.6	124.7	75.3
O60503	-1.49	0.045174	0.76	86.5	113.5	0.59	125.7	74.3
Q92797	-1.49	0.001042	0.68	81.2	118.8	0.66	120.6	79.4
Q15059	-1.49	0.03729	0.6	74.7	125.3	0.75	114.2	85.8
Q8WX92	-1.5	0.023356	0.73	84.4	115.6	0.61	124.4	75.6
Q9BQP7	-1.5	0.001625	0.68	81	119	0.65	121.3	78.7
Q9BQS8	-1.51	4.90E-05	0.67	80	120	0.66	120.4	79.6
Q03001	-1.53	0.01182	0.7	82.3	117.7	0.61	124.2	75.8
Q7Z6Z7	-1.53	0.012428	0.7	82.3	117.7	0.61	124.4	75.6
Q6P9B6	-1.55	0.000784	0.64	77.7	122.3	0.66	120.6	79.4
O95747	-1.56	0.018561	0.59	74	126	0.7	117.5	82.5
Q6UWP7	-1.56	0.007583	0.68	80.9	119.1	0.61	124.5	75.5
Q96BJ3	-1.56	0.021546	0.71	82.8	117.2	0.58	126.4	73.6
Q99798	-1.56	0.003361	0.62	76.3	123.7	0.67	120.1	79.9
Q9NQH7	-1.58	0.009963	0.68	80.7	119.3	0.59	125.7	74.3
Q96BW5	-1.6	0.007788	0.59	74	126	0.66	120.2	79.8
Q6WCQ1	-1.61	0.001553	0.64	78	122	0.61	124.6	75.4
Q68CZ2	-1.63	0.010301	0.57	72.7	127.3	0.66	120.4	79.6
Q53EL6	-1.63	0.003119	0.59	74.1	125.9	0.64	122.1	77.9
Q15172	-1.64	0.007046	0.57	72.8	127.2	0.65	121.4	78.6
O15438	-1.65	0.009569	0.57	72.2	127.8	0.65	121	79
Q9NVM9	-1.66	0.027152	0.68	81.1	118.9	0.53	130.7	69.3
O95155	-1.66	0.027489	0.68	81.1	118.9	0.53	130.8	69.2
Q9Y530	-1.7	7.40E-06	0.59	74.1	125.9	0.59	126.1	73.9

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Q9BQ24	-1.72	0.000351	0.57	72.9	127.1	0.59	125.7	74.3
O95260	-1.73	0.002504	0.55	71.3	128.7	0.6	124.9	75.1
O95466	-1.74	0.003582	0.6	75.2	124.8	0.55	129.4	70.6
P50748	-1.77	0.04497	0.47	63.7	136.3	0.68	119.1	80.9
P55061	-1.8	6.16E-06	0.56	71.6	128.4	0.56	128.6	71.4
Q01664	-1.86	0.032091	0.45	62.4	137.6	0.64	122.1	77.9
Q92625	-2.05	0.018766	0.42	58.9	141.1	0.57	127.6	72.4
Q96I59	-2.06	0.006293	0.44	61.5	138.5	0.53	130.7	69.3
Q9NVD7	-2.2	0.020758	0.38	55.1	144.9	0.55	129.5	70.5
Q2NKX8	-2.33	0.015017	0.37	53.4	146.6	0.51	132.7	67.3
Q9NXF7	-2.67	0.003772	0.34	50.7	149.3	0.42	141.4	58.6
Q92896	-3.01	0.038106	0.23	37.2	162.8	0.48	135	65
O15020	-3.09	0.049976	0.21	34.5	165.5	0.5	133.1	66.9
Q9Y2F5	-8	0.035959	0.05	9.3	190.7	0.32	151.5	48.5

^aFC: Fold change; ^bF-FC: Forward labeling: (Light, shikonin)/(Heavy, Control); ^cF-L: Forward labeling: Light, Shikonin; ^dF-H: Forward labeling: Heavy, Control; ^eR-FC: Reverse labeling: (Heavy, shikonin)/(Light, Control); ^fR-L: Reverse labeling: Light, Control; ^gR-H: Reverse labeling: Heavy, Shikonin.