

**Supplemental table S2:** Fold changes and p-values of genes after exposition to flavanone metabolites (Datassist software analysis)

Assay	HESP		H3'G		H7G		H3'S		NAR		N4'G		N7G	
	FC	p-Value	FC	p-Value	FC	p-Value	FC	p-Value	FC	p-Value	FC	p-Value	FC	p-Value
18S-Hs99999901_s1	0.6483	0.0195	0.8367	0.3237	0.9121	0.6841	0.7696	0.1238	0.713	0.0408	1.1121	0.5726	0.9	0.2937
ACE-Hs01110015_m1	0.9749	0.9573	0.8283	0.7212	1.0124	0.9781	0.9405	0.9106	0.9852	0.9774	0.8763	0.801	0.8987	0.828
ACTB-Hs99999903_m1	1.0	NaN	NaN	1.0	NaN	1.0	NaN	1.0	NaN	1.0	NaN	NaN	1.0	NaN
ACTR2-Hs00745853_s1	0.5651	0.031	0.5488	0.0275	0.6303	0.0435	0.5835	0.0311	0.5866	0.0449	0.8069	0.1947	0.7179	0.092
ACTR3-Hs00828586_m1	0.8204	0.0628	0.7529	0.0392	0.8448	0.0694	0.7483	0.0534	0.9185	0.3176	0.7667	0.0084	0.8606	0.2142
AGTR1-Hs00258938_m1														
AGTR2-Hs00169126_m1														
AHR-Hs00907314_m1	1.0931	0.6967	0.8153	0.467	0.6822	0.134	0.5755	0.0682	0.6835	0.1355	0.7361	0.3896	0.8442	0.5717
AKT1-Hs00178289_m1	0.899	0.4355	0.8529	0.2982	0.9143	0.5113	0.7241	0.1038	0.9606	0.7519	0.9375	0.6832	0.7605	0.2017
ARG2-Hs00982837_m1	0.7831	0.0081	0.8969	0.312	1.0172	0.9027	0.7518	0.0764	1.1068	0.3893	0.8914	0.4636	0.8275	0.2083
BCAR1-Hs00183953_m1	0.8739	0.5647	2.2014	0.3971	0.8801	0.4778	0.8995	0.5684	1.0935	0.6179	1.2151	0.2834	0.9201	0.7437
BMP4-Hs00181626_m1	1.0099	0.9658	0.9886	0.9586	0.9932	0.9658	0.7254	0.1539	1.1031	0.5283	0.9276	0.7556	0.6574	0.1047
CAV1-Hs00184697_m1	0.858	0.3556	0.8141	0.2525	0.8835	0.4005	0.7665	0.1712	0.9439	0.6825	0.8036	0.4808	0.7574	0.0905
CCL2-Hs00234140_m1	0.8924	0.3166	0.6927	0.4377	1.0676	0.6747	0.7665	0.0343	0.979	0.909	0.7596	0.407	0.8044	0.4547
CD99-Hs00365982_m1	1.0173	0.8314	0.8311	0.0077	0.8956	0.1984	0.7954	0.0147	0.9352	0.5042	1.2379	0.4612	1.2119	0.5264
CDC42-Hs00854939_g1	0.7739	0.1881	0.8341	0.272	0.8281	0.1882	0.7829	0.2046	0.8209	0.2253	0.9402	0.7739	0.8362	0.2889
CDH2-Hs00169953_m1	0.8782	0.6421	0.8886	0.6917	0.8177	0.414	0.747	0.2725	0.948	0.8134	0.8546	0.5382	0.6334	0.3234
CDH5-Hs00174344_m1	0.7965	0.1063	0.78	0.1121	0.9158	0.5286	0.7425	0.0753	0.9151	0.5744	0.9481	0.7333	0.9221	0.5088
CDKN1A-Hs01121168_m1	0.8327	0.1145	86.8154	0.4238	0.8687	0.0957	0.7597	0.0099	0.8826	0.1394	0.7625	0.0223	0.7908	0.2792
CLDN1-Hs00221623_m1	0.6419	0.1481	0.7565	0.2433	0.774	0.2616	0.593	0.0861	0.8457	0.5128	0.8424	0.5261	0.6119	0.1268
CLDN5-Hs01561351_m1	0.899	0.8441	0.9246	0.8733	1.0411	0.9254	0.7492	0.5422	0.9437	0.8989	1.533	0.4339	0.7931	0.736
CTNNB1-Hs00991809_g1	0.7094	0.0482	0.803	0.1783	0.8824	0.346	0.843	0.1824	0.8723	0.3657	0.8646	0.3638	1.0153	0.8714
CTNNB1P1-Hs00172016_m1	0.9572	0.775	0.8134	0.2035	0.7711	0.1938	0.7622	0.1413	1.0842	0.7006	0.9362	0.681	1.0137	0.9299
DUSP1-Hs00610257_g1	0.8101	0.2192	0.7885	0.1855	0.7456	0.1276	0.8435	0.282	0.834	0.2645	0.8664	0.3413	0.778	0.1725
ECEF1-Hs01043735_m1	0.7178	0.1303	0.8189	0.2704	0.7369	0.1827	0.7071	0.1234	0.7823	0.2698	0.8394	0.3894	0.7384	0.161
EDN1-Hs01115919_m1	0.9477	0.6207	0.9507	0.7603	0.9908	0.9114	0.7421	0.0275	0.9947	0.9627	0.8614	0.3107	0.7171	0.0414
EDN2-Hs00266516_m1	0.3278		0.06		1.7769		0.6156		0.2389		1.4596		0.3773	
ELAVL1-Hs00171309_m1	0.9543	0.6699	0.8132	0.1578	0.9341	0.6671	0.7111	0.0717	0.9743	0.8997	0.8019	0.1354	0.8316	0.5004
ESR1-Hs01046812_m1														
EZR-Hs00931653_m1	0.8556	0.0933	0.8193	0.0856	0.802	0.0777	0.7351	0.0103	0.8434	0.0684	0.7796	0.0394	0.7788	0.0394
F11R-Hs00170991_m1	0.909	0.6238	0.8919	0.66	0.9211	0.7005	0.7891	0.3848	0.974	0.9212	0.8973	0.6984	0.8545	0.4244
FLT1-Hs01052937_m1	0.8924	0.5248	0.7766	0.1819	0.9162	0.6337	0.8151	0.2678	0.8999	0.5496	0.827	0.2807	0.8307	0.2763
GABPA-Hs01022023_m1	0.7485	0.0424	0.6724	0.024	0.8064	0.1575	0.6773	0.0144	0.784	0.167	0.7506	0.0454	0.7777	0.2826
GAPDH-Hs99999905_m1	0.6573	0.034	0.7665	0.0792	0.773	0.0818	0.7714	0.0799	0.7586	0.0733	0.7661	0.0979	0.7479	0.0756
GJA4-Hs00704917_s1	0.7758	0.5111	0.7464	0.3769	0.8281	0.5344	0.7813	0.4662	0.9938	0.987	0.7281	0.3838	0.8466	0.5646
GPX1-Hs02516751_s1	0.8562	0.2934	0.8222	0.2333	0.7751	0.0985	0.7083	0.063	0.7871	0.1161	0.8027	0.2867	0.7139	0.0879
HMOX1-Hs00157965_m1	0.8016	0.5515	0.794	0.5432	0.896	0.7423	0.805	0.5575	0.9832	0.9621	0.8195	0.589	1.0842	0.8215
HSP1-Hs00833101_s1	0.8062	0.0872	0.9578	0.5387	0.9194	0.4618	0.8589	0.2112	0.9283	0.6021	1.0111	0.915	0.9398	0.2454
HSP90A1;HSP90AB3P-Hs03043881_g1	0.8839	0.4757	0.9811	0.9095	0.8659	0.3839	0.7319	0.1467	0.8972	0.5149	0.9217	0.6314	0.7307	0.1772
ICAM1-Hs99999152_m1	0.7853	0.164	0.8002	0.2502	0.8337	0.3463	0.7521	0.1668	0.7859	0.3256	0.8021	0.5067	0.6925	0.0998
IKBK-Hs00233284_m1	0.885	0.133	0.8838	0.2227	0.8729	0.2179	0.7522	0.0155	0.8861	0.272	0.8868	0.5262	0.7802	0.0406
IL6-Hs00174131_m1	1.2054	0.3398	0.8708	0.3446	0.8043	0.1471	0.7069	0.0585	0.9827	0.8659	0.9612	0.8973	0.6917	0.1975
IQGAP1-Hs00182622_m1	0.8187	0.1391	0.6068	0.3216	0.8164	0.1344	0.8012	0.1374	0.8571	0.2208	0.8593	0.4442	0.8482	0.2126
IQGAP2-Hs00183606_m1	0.7479	0.6431	0.6085		0.6255	0.5134	0.4792	0.4023	0.8362	0.7621	0.9248	0.8838	0.7621	
ITGB1-Hs00236976_m1	0.8554	0.0193	0.8226	0.0242	0.8591	0.108	0.7906	0.0461	0.8867	0.2308	0.8609	0.0919	0.8417	0.1768
JAM3-Hs00230289_m1	0.8183	0.1449	0.7789	0.0991	0.9124	0.4635	0.806	0.1435	0.921	0.5116	0.8301	0.1645	0.8369	0.1723

JUN-Hs01103582_s1	0.9635	0.8554	0.9799	0.915	0.8205	0.415	0.8588	0.4975	0.7948	0.3357	0.8943	0.676	0.8361	0.4073
KDR-Hs00176676_m1	0.7794	0.3263	0.7703	0.3701	0.8735	0.5797	0.7733	0.3825	0.8277	0.4911	0.8496	0.571	0.8881	0.6305
KEAP1-Hs00202227_m1	0.8543	0.0789	1.0761	0.6623	0.8649	0.0931	0.7602	0.0172	0.9609	0.6181	1.1413	0.6389	0.8246	0.0554
KLF2-Hs00360439_g1	1.0934	0.66	1.0242	0.9131	1.1784	0.395	1.1229	0.5554	1.1288	0.5518	1.0038	0.9836	1.1751	0.6523
LDLR-Hs01092525_m1	0.9188	0.5338	0.8955	0.4364	0.9295	0.5803	0.783	0.1528	0.9296	0.5582	0.9363	0.7008	0.8241	0.2355
MAPK14-Hs00176248_m1	0.6313	0.0446	0.6071	0.0205	0.6631	0.0479	0.5479	0.0137	0.7491	0.0715	0.693	0.1197	0.666	0.1473
MSN-Hs01085677_g1	0.7894	0.0013	0.9571	0.5641	0.7894	0.0013	0.7658	0.0087	0.8231	0.1178	0.7723	0.0016	0.8939	0.5161
MYL12B-Hs00853081_g1	0.8073	0.0968	0.7514	0.0512	0.8282	0.1108	0.7659	0.0507	0.8834	0.3497	0.7858	0.067	0.7943	0.088
MYL7-Hs00221909_m1														
MYLK-Hs00364926_m1	0.9571	0.8259	0.9225	0.6809	0.9164	0.5708	0.7522	0.1127	1.0716	0.7177	0.8952	0.6091	0.8531	0.4018
NFKB1-Hs00231653_m1	0.7855	0.0252	1.1477	0.7177	0.8085	0.0474	0.7468	0.018	0.8787	0.3113	0.8025	0.1097	0.8095	0.0157
NOS3-Hs01574659_m1	0.8011	0.394	0.9708	0.8937	0.9563	0.857	0.9388	0.7913	0.9225	0.7675	1.1148	0.5969	0.864	0.5635
NOX1-Hs00246598_m1														
NOX3-Hs00210462_m1														
NOX4-Hs00418356_m1	1.049	0.7984	0.8757	0.2703	1.0086	0.9444	0.8362	0.2455	1.1849	0.2405	0.964	0.7281	0.9097	0.5428
NPR1-Hs00181445_m1	0.7659	0.4827	0.8413	0.6809	0.8677	0.6893	0.6997	0.3466	0.7946	0.5485	0.841	0.6831	0.841	0.6913
NQO1-Hs00168547_m1	0.8891	0.4251	0.9777	0.8857	0.903	0.3444	0.7372	0.045	1.0196	0.9074	0.9496	0.8181	0.8336	0.1324
NR1I2-Hs01114267_m1														
OLR1-Hs00234028_m1	1.0598		2.2431		1.9752	0.0668	0.8821	0.3654	1.6908	0.3664	1.4416	0.6546	1.0935	
PAK1-Hs00945621_m1	1.0899	0.5321	1.1343	0.5828	1.3684	0.2062	1.0529	0.7261	1.2294	0.0337	1.6045	0.0625	1.095	0.3056
PAK4-Hs00178686_m1	0.7753	0.0552	0.7211	0.0395	0.7728	0.0452	0.8563	0.1642	0.8655	0.164	0.8557	0.2454	0.8085	0.1502
PDGFA-Hs00234994_m1	0.8421	0.0944	0.9196	0.4074	0.8752	0.1495	0.7783	0.0302	0.9371	0.4943	0.8846	0.2241	0.9009	0.4593
PDGFB-Hs00234042_m1	0.8389	0.3296	0.8587	0.4394	0.838	0.2129	0.7416	0.0904	1.0934	0.5835	0.9109	0.5947	0.7444	0.0968
PECAM1-Hs01065279_m1	0.7733	0.1019	0.8944	0.406	0.8564	0.2728	0.755	0.0841	0.892	0.482	0.8793	0.4897	0.8513	0.2181
PHKA2-Hs00175999_m1	0.744	0.1126	0.7573	0.1387	0.7923	0.1655	0.7426	0.108	0.8166	0.2065	0.844	0.276	0.8489	0.3253
PLA2G2A-Hs00179898_m1														
PON2-Hs00165563_m1	0.7793	0.0329	0.7287	0.0501	0.7413	0.0196	0.6464	0.0079	0.8208	0.1629	0.7592	0.0246	0.722	0.0557
PPARA-Hs00947538_m1	0.6767	0.5203	0.5174	0.336	0.708	0.5401	0.6534	0.4694	0.4798	0.3088	0.5723	0.3874	2.2076	0.4627
PPARD-Hs00602622_m1	0.649	0.0701	0.7687	0.1638	0.7727	0.1773	0.788	0.1948	0.9095	0.5504	0.8453	0.3192	0.7815	0.187
PPARGC1A-Hs01016722_m1														
PPP1R12B-Hs00364078_m1	0.6939	0.0422	0.792	0.076	0.5994	0.0082	0.5646	0.0125	0.667	0.0356	0.7327	0.0348	0.7613	0.0688
PTGIR-Hs00168765_m1	0.6484	0.1255	0.5728	0.0555	0.7562	0.2297	0.7839	0.2805	0.7738	0.2419	0.8886	0.6889	0.7105	0.3148
PTGIS-Hs00168766_m1	0.7191	0.2151	0.6693	0.182	0.7892	0.3376	0.6654	0.1617	0.6462	0.1273	0.6819	0.2085	0.838	0.4794
PTGS1-Hs00924803_m1	0.7845	0.2067	0.719	0.098	0.8242	0.3021	0.7663	0.1568	0.8103	0.353	0.7728	0.2	0.7186	0.1394
PTGS2-Hs01573471_m1	0.7592	0.1237	0.7278	0.106	0.6546	0.0561	0.6162	0.0379	0.8449	0.26	0.7295	0.1056	0.6811	0.1772
PTK2-Hs00178587_m1	0.8651	0.5073	0.9106	0.6481	0.8393	0.4364	0.7802	0.3135	0.9279	0.7478	0.918	0.6812	0.9036	0.6493
RAC1-Hs01025984_m1	0.7424	0.0641	0.8624	0.2814	0.8093	0.1098	0.856	0.2509	0.8481	0.4169	0.7966	0.1766	0.7723	0.0827
RAP1A-Hs00758061_m1														
RDX-Hs00267954_m1	0.5387	0.1285	0.5452	0.1364	0.6712	0.2931	0.556	0.1393	0.5929	0.1705	0.7215	0.311	0.8682	0.6915
RELA-Hs00153294_m1	0.6446	0.3257	0.643	0.3239	0.733	0.4363	0.6239	0.3049	0.6632	0.3464	0.6291	0.3099	0.5937	0.2772
RHOA-Hs00236938_m1	0.8198	0.0545	0.8122	0.0546	0.8744	0.3464	0.7662	0.027	0.8918	0.2819	0.8709	0.1211	0.8558	0.3589
ROCK1-Hs00178463_m1	0.8963	0.5045	1.0479	0.5936	0.8219	0.0806	0.7683	0.0501	0.9053	0.4114	1.0272	0.8967	0.8087	0.0811
S100A9-Hs00610058_m1														
SELE-Hs00950401_m1	0.7283	0.4188	0.847	0.6549	0.8695	0.6898	0.6984	0.3783	0.844	0.6518	0.7928	0.6375	0.7721	0.5778
SERPINE1-Hs00167155_m1	0.7162	0.0516	0.7749	0.1051	0.741	0.0621	0.6187	0.0287	0.787	0.1072	0.6881	0.0464	0.7933	0.5313
SOD1-Hs00166575_m1	0.5831	0.4058	0.6366	0.4588	0.6446	0.4719	0.7204	0.5631	0.6509	0.475	0.6851	0.5166	0.6188	0.4401
TRAF1-Hs01090170_m1	0.7736	0.1123	0.885	0.3022	0.8184	0.1479	0.7302	0.0594	0.9236	0.5291	0.8592	0.2459	0.7944	0.124
VCAM1-Hs01003369_m1	0.7244	0.2146	0.9797	0.952	1.1778	0.7136	0.7837	0.3535	0.7724	0.2607	0.8068	0.6072	0.7844	0.5807
VEGFA-Hs03929005_m1	0.6392	0.022	0.7462	0.0821	0.7407	0.1158	0.7357	0.0589	0.7251	0.1669	0.8319	0.3759	0.6953	0.0628
VWF-Hs00169795_m1	0.7106	0.0011	0.7823	0.0982	0.812	0.323	0.7378	0.1209	0.8094	0.2848	0.8211	0.4044	0.7675	0.2885