

TABLE A. Correlation between microarray and real-time RT-PCR expression data

SAPD ID	Gene Name	Spearman's rho Probe_1/Probe_2	qPCR/Probe_1	qPCR/Probe_2
SAPD23647	26S proteasome complex subunit (26S)	0.930**	0.347	0.270
SAPD21212	Fatty acid synthase (FAS)	0.951**	0.895**	0.951**
SAPD10252	Glycerol-3-phosphateacyl transferase GPAT)	0.804**	0.937**	0.747**
SAPD23278	Protein kinase C (PKC)	0.893**	0.930**	0.858**
SAPD20246	3-ketoacylCoA thiolase (KAT)	0.944**	0.867**	0.832**
SAPD11592	ACP	0.958**	0.298	0.326
SAPD20810	CD-59	0.965**	0.839**	0.881**
SAPD18820	Interleukin-2 (ILF2)	0.973**	0.879**	0.821**
SAPD02236	Malate dehydrogenase (MDH)	0.818**	0.053	0.249
SAPD22939	Superoxide dismutase (SOD)	0.453	0.502	0.712**

** p <0.01

TABLE B. Comparison of gene expression values between qRT-PCR and microarray probes for selected target genes.

	SAPD23647				SAPD21212				SAPD10252				SAPD23278				SAPD20246				
	24h		21d		24h		21d		24h		21d		24h		21d		24h		21d		
	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	
Probe 2	Mean expression	0.758	0.839	2.440	1.004	2.369	1.067	5.137	0.732	6.451	1.220	5.555	0.990	0.428	1.072	2.593	1.076	0.312	1.294	0.412	0.903
	SD	0.089	0.142	0.378	0.031	0.230	0.094	0.364	0.325	1.089	0.217	0.137	0.036	0.153	0.068	0.912	0.410	0.038	0.380	0.070	0.141
Probe 1	Mean expression	0.645	0.849	2.495	1.029	1.777	0.953	6.306	0.775	5.361	0.983	7.513	0.941	0.282	0.964	3.119	1.864	0.231	1.128	0.376	0.972
	SD	0.100	0.133	0.098	0.060	0.323	0.173	0.573	0.314	0.521	0.050	0.362	0.222	0.082	0.080	1.216	1.139	0.025	0.120	0.002	0.159
qPCR	Mean expression	1.374	1.240	4.084	0.839	2.261	0.938	9.112	0.725	3.849	0.932	7.094	0.833	0.307	0.800	5.882	2.263	0.212	1.536	0.564	0.731
	SD	0.343	0.208	1.780	0.154	0.153	0.182	3.983	0.249	0.492	0.097	2.491	0.215	0.090	0.262	1.231	1.468	0.062	0.873	0.163	0.245

	SAPD11592				SAPD20810				SAPD18820				SAPD02236				SAPD22939				
	24h		21d		24h		21d		24h		21d		24h		21d		24h		21d		
	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	Cold	Ctrl	
Probe 2	Mean expression	0.858	0.924	1.779	0.961	0.259	0.885	0.568	0.888	2.244	0.768	9.313	0.860	0.430	1.036	0.609	1.190	1.334	1.029	1.654	0.999
	SD	0.180	0.099	0.109	0.033	0.031	0.141	0.048	0.415	0.530	0.372	0.902	0.302	0.125	0.090	0.143	0.167	0.128	0.177	0.221	0.081
Probe 1	Mean expression	0.926	0.941	1.640	0.917	0.257	0.920	0.578	0.944	1.990	0.935	11.86	0.858	0.526	1.105	0.618	1.068	0.971	0.901	1.491	1.104
	SD	0.131	0.061	0.199	0.095	0.046	0.072	0.056	0.415	0.236	0.092	0.550	0.501	0.192	0.092	0.125	0.080	0.052	0.091	0.204	0.206
qPCR	Mean expression	1.352	1.191	2.754	1.166	0.414	0.923	0.707	0.730	2.566	0.948	15.34	0.897	0.555	0.746	0.711	0.967	1.652	1.013	2.469	0.924
	SD	0.158	0.176	0.027	0.304	0.252	0.112	0.197	0.374	0.344	0.056	1.564	0.121	0.249	0.226	0.384	0.033	0.182	0.179	0.572	0.269