Table.S2 Expression profiles of genes in cOS-evoked signaling

	Probe-Gene name (alternative description)	Control	cOS-4h	cOS-20h	cOS-32h	4h vs control	20h vs 32h
1	A_66_P117655 – Csnk2a2 (CK2a', Casein kinase 2 alpha-prime catalytic subunit)	0.022107007	0.102096577	0.016753752	0.016498355	4.618290346	1.015480149
2	A_55_P2022845 – Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	4.428198824	5.999354989	5.239524175	4.651122701	1.354807051	1.126507407
3	A_51_P397768 – Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	0.643116719	0.721190786	0.693481619	0.673480229	1.121399529	1.029698556
4	A_55_P1971828 – Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	0.501161797	0.503072645	0.509257197	0.524515205	1.003812837	0.970910266
5	A_52_P207614 – Csnk2a2 (CK2a', Casein kinase 2 alpha-prime catalytic subunit)	1.462757687	1.077797115	1.26887396	1.280179516	0.736825466	0.991168773
6	A_55_P2022840 – Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	3.774392613	3.071731041	4.013786557	4.301583969	0.813834531	0.933095015
7	A_51_P373379 – Csnk2b (CK2b, Casein kinase 2 beta regulatory subunit)	10.2129405	15.47623354	13.02776774	11.50548584	1.515355302	1.132309224
8	A_55_P2408588 – Arntl (BMAL1, Brain muscle arnt-like protein)	0.934501808	1.961271633	0.585808609	1.060767706	2.09873498	0.552249664
9	A_52_P334670 – Clock	1.064832655	1.672356358	1.045277276	1.082123305	1.57053444	0.965950249
10	A_52_P534749 – Npas2 (neuronal PAS domain protein 2)	0.008166072	0.01660074	0.006289421	0.008722999	2.032891701	0.721015903
11	A_55_P1970033 – Per1 (Period1)	1.687263621	2.339634389	1.902384361	1.70348117	1.386644244	1.116762776
12	A_55_P2019327 – Per1 (Period1)	0.014364285	0.02162663	0.010338537	0.058210774	1.505583466	0.177605214
13	A_51_P282760 – Per2 (Period2)	0.038414261	0.044614949	0.039301931	0.023498851	1.161416303	1.672504371
14	A_52_P420500 – Cry 1(Cryptochrome1)	0.039705608	0.113721347	0.041106433	0.028285518	2.864112974	1.453267817
15	A_55_P2016540 – Cry2 (Cryptochrome2)	2.231400381	5.341192941	2.990971368	2.928895865	2.393650636	1.021194165
16	A_51_P223776 – Nr1d1 (Rev-erb-alpha)	0.188338102	0.400531052	0.167590549	0.162717802	2.126659703	1.029945998
17	A_55_P2148534 – Nr1d2 (Rev-erb-beta)	1.580534799	2.893102826	2.044634827	1.57913225	1.830458164	1.294783782
18	A_52_P303891 – Nr1d2 (Rev-erb-beta)	0.805971539	1.689534839	0.963866427	0.741074686	2.096271093	1.300633317
21	A_55_P2032081 – Dbp (D site albumin promoter binding protein)	0.951097244	0.375084617	1.542301584	0.977207468	0.394370417	1.578274455
22	A_55_P2032079 – Dbp (D site albumin promoter binding protein)	0.915865144	0.400449244	1.495995878	0.947904991	0.437236035	1.578212893
23	A_51_P386794 – Myf6 (myogenic factor 6)	0.009600689	0.017909576	0.011023921	0.009715177	1.865446949	1.134711287
24	A_65_P19780 – Bteb1(Klf9 Kruppel-like factor 9)	19.20736888	34.84841174	23.43206183	22.94765773	1.814325114	1.021109087
25	A_55_P2230913 – Etv6 (ets variant gene 6 (TEL oncogene))	0.53472693	0.729647658	0.568136682	0.54216151	1.364523866	1.047910395
26	A_55_P2000404 – Etv6 (ets variant gene 6 (TEL oncogene))	0.010589186	0.009092382	0.008162505	0.011298868	0.85864787	0.722417945
27	A_55_P2016862 – Ncoa4(nuclear receptor coactivator 4)	4.718137293	4.572982189	5.030869267	5.24568581	0.969234659	0.959048912
28	A_51_P434101 – Herpud1(HERP; Mif1)	3.08659993	6.873791063	2.539239719	3.069133072	2.226978299	0.827347547
29	A_55_P1994913 – Ppp2cb (protein phosphatase 2, catalytic subunit, beta isozyme)	5.118301735	6.716249847	5.464496228	5.412994792	1.312202796	1.009514407
30	A_65_P09443 – Psma4 (proteasome subunit, alpha type 1)	8.535616747	9.828103835	7.991173623	7.778252129	1.151422812	1.027373951
31	A_52_P81468 – Psma4 (proteasome subunit, alpha type 1)	6.049184653	6.89307494	5.375735666	5.352757891	1.139504799	1.004292698
32	A_51_P234544 – Oazin (Azin1 antizyme inhibitor 1)	5.481340662	8.59994361	5.175165499	4.664210823	1.568948938	1.109547938
33	A_52_P24631 – Oazin (Azin1 antizyme inhibitor 1)	1.551837936	1.620173033	1.355871475	1.157899998	1.044034944	1.17097459
34	A_52_P117313 – Oazin (Azin1 antizyme inhibitor 1)	0.059195159	0.045866362	0.045410194	0.048265679	0.774832989	0.940838189
35	A_55_P2002155 – Sumo1 (SMT3 suppressor of mif two 3 homolog 1)	27.44914677	41.23967334	28.34171195	32.57932029	1.502402741	0.869929504
36	A_52_P30451 – Ppp1r3c (protein phosphatase 1, regulatory subunit 3C)	0.009161177	0.007668151	0.006653674	0.176526221	0.837026836	0.03769227
37	A_51_P473734 – H2-Dma (histocompatibility 2, class II, locus Dma)	0.076891184	0.910324819	0.113418501	0.13255999	11.83913125	0.855601309
38	A_55_P2087984 – Dnaja1 (DnaJ (Hsp40) homolog, subfamily A, member 1)	30.21618674	48.14119337	30.51240515	31.51467763	1.593225306	0.968196645
39	A_55_P1992149 – Dnaja1 (DnaJ (Hsp40) homolog, subfamily A, member 1)	0.075011573	0.098667783	0.081880499	0.086621418	1.31536747	0.945268513
40	A_55_P2181191 – Btg1 (B-cell translocation gene 1, anti-proliferative)	1.934329675	5.433084556	1.559911552	1.416478643	2.808768653	1.101260199
41	A_55_P2098598 – Btg1 (B-cell translocation gene 1, anti-proliferative)	87.76732305	168.7255914	97.15515222	92.84478677	1.922419251	1.046425498
42	A_51_P293339 – Tob1 (transducer of ErbB-2.1)	0.445706992	0.566674638	0.701704491	0.75654407	1.271406211	0.927513041
43	A_52_P12877 – Hspa8 (heat shock protein 8, Hsc70)	12.12040667	21.2414817	10.12129509	10.54129859	1.752538696	0.96015638
44	A_55_P2080603 – Hspa8 (heat shock protein 8, Hsc70)	146.4024615	197.552049	135.7020778	153.1221307	1.349376554	0.886234257
45	A_55_P2069721 – Hspa8 (heat shock protein 8, Hsc70)	68.96469075	111.3798929	62.26732511	63.77060221	1.615027802	0.976426801
46	A_55_P2039284 – Hspb1 (heat shock factor binding protein 1)	0.007384785	0.052661397	0.010474603	0.007711258	7.131067052	1.358352035
47	A_55_P2035593 – Hsf1(Heat shock factor-1)	2.607223029	3.789790767	2.35594082	2.450844072	1.453573678	0.961277319
48	A_55_P2039284 – Hspb1 (heat shock factor binding protein 1)	0.007384785	0.052661397	0.010474603	0.007711258	7.131067052	1.358352035
49	A_51_P340747 – Hspa1l (HSP70-1L, heat shock 70kDa protein 1-like)	0.010919889	0.033411024	0.012183643	0.00991201	3.059648683	1.229179854
50	A_55_P2076772 – Hspa5 (heat shock 70kDa protein 5)	57.43539987	148.2651789	45.10374746	61.17974973	2.581425031	0.737233278
51	A_51_P380013 – Bcl2 (B-cell CLL/lymphoma 2)	0.236162598	0.136766557	0.162146692	0.186905807	0.57912031	0.86753159
52	A_51_P417701 – Apaf1 (apoptotic peptidase activating factor 1)	0.219065166	0.25337386	0.381735245	0.367466108	1.156614101	1.038831165
53	A_51_P247799 – Casp8 (caspase 8, apoptosis-related cysteine peptidase)	1.550982599	0.489449731	0.937747479	1.128345305	0.315573967	0.831082006
54	A_52_P117576 – Casp3 (caspase 3, apoptosis-related cysteine peptidase)	0.113614502	0.246418709	0.100339392	0.113127455	2.168901898	0.886958802
55	A_55_P1968743 – Nfkb1(nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p1(	0.52713219	1.365273642	0.456943185	0.472502249	2.590002409	0.967070921
56	A_55_P1968738 – Nfkb1(nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p1(	0.651195502	1.551116944	0.572660182	0.589424159	2.381952792	0.971558721
57	A_51_P438666 – Keap1(kelch-like ECH-associated protein 1)	3.427946753	3.463824895	3.703179291	3.79786599	1.010466365	0.975068447
58	A_51_P411271 – Nfe2l2 (nuclear factor, erythroid derived 2, like 2)	18.28175922	34.14468218	18.46370278	18.396176	1.867691275	1.003670697
59	A_55_P2165869 – Cebpb (CCAAT/enhancer binding protein (C/EBP), beta)	28.96361352	51.97071492	34.99062915	34.85053746	1.794344994	1.004019786
60	A_52_P608322 – Maff (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F)	1.755270284	4.30104075	1.92542523	2.10585018	2.450358095	0.914322039
61	A_55_P2177023 – Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	4.859170988	15.5205739	5.035077554	5.001992866	3.194078566	1.006614301
62	A_55_P2177026 – Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	3.258451226	10.89146789	3.525952892	3.377794595	3.342529053	1.043862435
63	A_66_P116632 – Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	20.95441006	64.92384777	22.22348705	22.5518878	3.098338134	0.985437993
64	A_55_P2047748 – Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	6.302027282	23.32222457	7.540292035	7.444378968	3.700749541	1.012883958
65	A_55_P1953241 – Mafk (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K)	1.008209214	3.399426083	1.05495526	1.068461056	3.371746693	0.98735958
66	A_55_P2170454 – Gsta2 (glutathione S-transferase alpha 2)	0.009319264	0.115060536	0.007052737	0.009916763	12.34652608	0.711193461
67	A_51_P424338 – Nqo1(NAD(P)H dehydrogenase, quinone 1)	0.402763123	0.443422721	0.412452132	0.196859167	1.100951641	2.095163453
68	A_51_P365019 – Gclc (glutamate-cysteine ligase, catalytic subunit)	2.932332497	10.82289237	2.801351661	2.556717746	3.690881706	1.095682801
69	A_51_P320089 – Gclm (glutamate-cysteine ligase, modifier subunit)	0.563401199	1.803172352	0.613133187	0.592478969	3.200512095	1.034860677
70	A_55_P2029687 – Hmox1 (heme oxygenase (decycling) 1)	0.391591377	2.936790189	0.364830108	0.406271396	7.499629362	0.897996048
71	A_51_P263965 – Hmox1 (heme oxygenase (decycling) 1)	3.996637986	39.04096207	3.84818858	3.640141671	9.768450935	1.05715352
72	A_55_P2029574 – Por (P450 (cytochrome) oxidoreductase)	10.97784523	24.26837493	10.05080395	10.91844956	2.210668344	0.920533991

Red; ≧1.5 Red; ≧1.5
Blue; ≦0.75 Blue; ≦0.75