

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
2 A_55_P2022845 - Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	4.428198824	5.999354989	5.239524175	4.651122701	1.354807051
3 A_51_P397768 - Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	0.643116719	0.721190786	0.693481619	0.673480229	1.121399529
4 A_55_P1971828 - Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	0.501161797	0.503072645	0.509257197	0.524515205	1.003812837
5 A_52_P207614 - Csnk2a2 (CK2a, Casein kinase 2 alpha-prime catalytic subunit)	1.462757687	1.07797115	1.26887396	1.280179516	0.736825466
6 A_55_P2022840 - Csnk2a1 (CK2a, Casein kinase 2 alpha catalytic subunit)	3.774392613	3.071731041	4.013786557	4.301583969	0.813834531
7 A_51_P373379 - Csnk2b (CK2b, Casein kinase 2 beta regulatory subunit)	10.2129405	15.47623354	13.02776774	11.50548584	1.515355302
8 A_55_P2408588 - Arntl (BMAL1, Brain muscle arnt-like protein)	0.934501808	1.961271633	0.585808609	1.060767706	2.09873498
9 A_52_P334670 - Clock	1.064832655	1.672356358	1.045277276	1.082123305	1.57053444
10 A_52_P534749 - Npas2 (neuronal PAS domain protein 2)	0.008166072	0.01660074	0.006289421	0.008722999	2.032891701
11 A_55_P1970033 - Per1 (Period1)	1.687263621	2.339634389	1.902384361	1.70348117	1.386644244
12 A_55_P2019327 - Per1 (Period1)	0.014364285	0.02162663	0.010338537	0.058210774	1.505583466
13 A_51_P282760 - Per2 (Period2)	0.038414261	0.044614949	0.039301931	0.023498851	1.161416303
14 A_52_P420500 - Cry1 (Cryptochrome1)	0.039705608	0.113721347	0.041106433	0.028285518	2.864112974
15 A_55_P2016540 - Cry2 (Cryptochrome2)	2.231400381	5.341192941	2.990971368	2.928895865	2.393650636
16 A_51_P223776 - Nr1d1 (Rev-erb-alpha)	0.188338102	0.400531052	0.167590549	0.162717802	2.126659703
17 A_55_P2148534 - Nr1d2 (Rev-erb-beta)	1.580534799	2.893102826	2.044634827	1.57913225	1.830458164
18 A_52_P303891 - Nr1d2 (Rev-erb-beta)	0.805971539	1.689534839	0.963866427	0.741074686	2.096271093
21 A_55_P2032081 - Dbp (D site albumin promoter binding protein)	0.951097244	0.375084617	1.542301584	0.977207468	0.394370417
22 A_55_P2032079 - Dbp (D site albumin promoter binding protein)	0.915865144	0.400449244	1.495995878	0.947904991	0.437236035
23 A_51_P386794 - Myf6 (myogenic factor 6)	0.009600689	0.017909576	0.011023921	0.009715177	1.865446949
24 A_65_P19780 - Bteb1 (Klf9 Kruppel-like factor 9)	19.20736888	34.84841174	23.43206183	22.94765773	1.814325114
25 A_55_P2230913 - Etv6 (ets variant gene 6 (TEL oncogene))	0.53472693	0.729647658	0.568136682	0.54216151	1.364523866
26 A_55_P2000404 - Etv6 (ets variant gene 6 (TEL oncogene))	0.010589186	0.009092382	0.008162505	0.011298868	0.85864787
27 A_55_P2016862 - Ncoa4 (nuclear receptor coactivator 4)	4.718137293	4.572982189	5.030869267	5.24568581	0.969234659
28 A_51_P434101 - Herpud1 (HERP; Mif1)	3.08659993	6.873791063	2.539239719	3.069133072	2.226978299
29 A_55_P1994913 - Ppp2cb (protein phosphatase 2, catalytic subunit, beta isozyme)	5.118301735	6.716249847	5.464496228	5.412994792	1.312202796
30 A_65_P09443 - Psm4 (proteasome subunit, alpha type 1)	8.535616747	9.828103835	7.991173623	7.778252129	1.151422812
31 A_52_P81468 - Psm4 (proteasome subunit, alpha type 1)	6.049184653	6.89307494	5.375735666	5.352757891	1.139504799
32 A_51_P234544 - Oazin (Azin1 antizyme inhibitor 1)	5.481340662	8.59994361	5.175165499	4.664210823	1.568948939
33 A_52_P24631 - Oazin (Azin1 antizyme inhibitor 1)	1.551837936	1.620173033	1.355871475	1.157899998	1.044034944
34 A_52_P117313 - Oazin (Azin1 antizyme inhibitor 1)	0.059195159	0.045866362	0.045410194	0.048265679	0.774332989
35 A_55_P2002155 - Sumo1 (SMT3 suppressor of mif two 3 homolog 1)	27.44914677	41.23967334	28.34171195	32.57932029	1.502402741
36 A_52_P30451 - Ppp1r3c (protein phosphatase 1, regulatory subunit 3C)	0.009161177	0.007668151	0.006653674	0.176526221	0.837026836
37 A_51_P473734 - H2-Dma (histocompatibility 2, class II, locus Dma)	0.076891184	0.910324819	0.113418501	0.13255999	11.83913125
38 A_55_P2087984 - Dnaj1 (DnaJ (Hsp40) homolog, subfamily A, member 1)	30.21618674	48.14119337	30.51240515	31.51467763	1.593225306
39 A_55_P1992149 - Dnaj1 (DnaJ (Hsp40) homolog, subfamily A, member 1)	0.075011573	0.098867783	0.081880499	0.086621418	1.31536747
40 A_55_P2181191 - Btg1 (B-cell translocation gene 1, anti-proliferative)	1.934329675	5.433084556	1.559911552	1.416478643	2.808768653
41 A_55_P2098598 - Btg1 (B-cell translocation gene 1, anti-proliferative)	87.76732305	168.7255914	97.15515222	92.84478677	1.922419251
42 A_51_P293339 - Tob1 (transducer of ErbB-2.1)	0.445706992	0.566674638	0.701704491	0.75654407	1.271406211
43 A_52_P12877 - Hspa8 (heat shock protein 8, Hsc70)	12.12040667	21.2414817	10.12129509	10.54129859	1.752538696
44 A_55_P2080603 - Hspa8 (heat shock protein 8, Hsc70)	146.4024615	197.552049	135.7020778	153.1221307	1.349376554
45 A_55_P2069721 - Hspa8 (heat shock protein 8, Hsc70)	68.96469075	111.3798929	62.26732511	63.77060221	1.615027802
46 A_55_P2039284 - Hspb1 (heat shock factor binding protein 1)	0.007384785	0.052661397	0.010474603	0.007711258	7.131067052
47 A_55_P2035593 - Hsf1 (Heat shock factor-1)	2.607223029	3.789790767	2.35594082	2.450844072	1.453573678
48 A_55_P2039284 - Hspb1 (heat shock factor binding protein 1)	0.007384785	0.052661397	0.010474603	0.007711258	7.131067052
49 A_51_P340747 - Hspa11 (HSP70-1L, heat shock 70kDa protein 1-like)	0.010919889	0.033411024	0.012183643	0.00991201	3.059648683
50 A_55_P2076772 - Hspa5 (heat shock 70kDa protein 5)	57.43539987	148.2651789	45.10374746	61.17974973	2.581425031
51 A_51_P380013 - Bcl2 (B-cell CLL/lymphoma 2)	0.236162598	0.136766557	0.162146692	0.186905807	0.57912031
52 A_51_P417701 - Apaf1 (apoptotic peptidase activating factor 1)	0.219065166	0.25337386	0.381735245	0.367466108	1.156614101
53 A_51_P247799 - Casp8 (caspase 8, apoptosis-related cysteine peptidase)	1.550982599	0.489449731	0.937747479	1.128345305	0.315573967
54 A_52_P117576 - Casp3 (caspase 3, apoptosis-related cysteine peptidase)	0.113614502	0.246418709	0.100339392	0.113127455	2.168901898
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
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
57 A_51_P438666 - Keap1 (kelch-like ECH-associated protein 1)	3.427946753	3.463824895	3.703179291	3.79786599	1.010466365
58 A_51_P411271 - Nfe2l2 (nuclear factor, erythroid derived 2, like 2)	18.28175922	34.14468218	18.46370278	18.396176	1.867891275
59 A_55_P2165869 - Cebpb (CCAAT/enhancer binding protein (C/EBP), beta)	28.96361352	51.97071492	34.99062915	34.85053746	1.794344994
60 A_52_P608322 - Mafk (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F)	1.755270284	4.30104075	1.92542523	2.10585018	2.450358095
61 A_55_P2177023 - Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	4.859170988	15.5205739	5.035077554	5.001992866	3.194078566
62 A_55_P2177026 - Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	3.258451226	10.89146789	3.525952892	3.377794595	3.342529053
63 A_66_P116632 - Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	20.95441006	64.92384777	22.22348705	22.5518878	3.098338134
64 A_55_P2047748 - Mafg (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G)	6.302027282	23.3222457	7.540292035	7.444378968	3.700749541
65 A_55_P1953241 - Mafk (v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K)	1.008209214	3.399426083	1.05495526	1.068461056	3.371746693
66 A_55_P2170454 - Gsta2 (glutathione S-transferase alpha 2)	0.009319264	0.115060536	0.007052737	0.009916763	12.34652608
67 A_51_P424338 - Nqo1 (NAD(P)H dehydrogenase, quinone 1)	0.402763123	0.443422721	0.412452132	0.196859167	1.100951641
68 A_51_P365019 - Gclc (glutamate-cysteine ligase, catalytic subunit)	2.932332497	10.82289237	2.801351661	2.556717746	3.690881706
69 A_51_P320089 - Gclm (glutamate-cysteine ligase, modifier subunit)	0.563401199	1.803172352	0.613133187	0.592478969	3.200512095
70 A_55_P2029687 - Hmox1 (heme oxygenase (decycling) 1)	0.391591377	2.936790189	0.364830108	0.406271396	7.499629362
71 A_51_P263965 - Hmox1 (heme oxygenase (decycling) 1)	3.996637986	39.04096207	3.84818858	3.640141671	9.768450935
72 A_55_P2029574 - Por (P450 (cytochrome) oxidoreductase)	10.97784523	24.26837493	10.05080395	10.91844956	2.210668344

Red:  $\geq 1.5$  Blue:  $\leq 0.75$  Red:  $\geq 1.5$  Blue:  $\leq 0.75$