

**Supplementary Table 1: Primer pairs used for qRT-PCR.** Analysis of mRNA expression levels by qRT-PCR was performed with the itemized primer pairs. Primer pairs were designed to overlap exon/intron junctions to prevent amplification of genomic DNA.

Gene	Sequence	Gene	Sequence
60s	5': GGA AGT ACC AGG CAG TGA CAG 3': GCA GGC ATG AGG CAA ACA G	Pde1b	5': GAT GCT GTG CCT TCA GAG GT 3': GAA CAT CCG CTC CAC GAA GA
Sostdc1	5': ACT GGA TCG AAA CAG TCG AGT T 3': CCT CCG GCT CCA GTA CTT TG	Lrtm1	5': GAA TGA GGG TTT GTG CTG CG 3': AAT CAC GGG GGA CCT TTG AC
Plekha4	5': ACT GCT GAG AAC TAA GGC CC 3': CGC ATG CTT GGT TTC TAC GC	Podh20	5': CCT GCC GCA TGT TTT TCT GC 3': TAC AGA AGC TCG GTA GCA CG
Spon2	5': ATC GCC AAA GTG ACC TTC GT 3': GCG GTG TCT CTG GAA CTG AA	Mbp	5': GGT CCA GGC TTC CTT TGT TTT CTT C 3': TGT CCA GCG TGT TCT CCT AAG TCC
Ccl11	5': AGA GCT CCA CAG CGC TTC TA 3': GGA AGT TGG GAT GGA GCC TGG	Tmem158	5': GAG GCA CAA ATG AGG TGG GA 3': GGA AAG AGC CGG TTT CCC TT
Egr3	5': CTC GGT AGC CCA TTA CAA TCA G 3': ATC GCC GCA GTT GGA ATA AG	Stc2	5': TGC CCA GGG AAA GTC ATT CA 3': AGC ATT CCC TCT GCA ACT GG
Il11	5': CGC TGG GAC ATT GGG ATC TT 3': AGG CGA GAC ATC AAG AGC TG	Klhl30	5': GCG CTA TGA TCC CTA CAC GG 3': GAC ACT CCA CGC ATC TGT CA
Egfl8	5': TCA GGG ACC TCC GAA ATT GTG 3': CCT CAC TCT GAG GGC TTC TTC	Ppp1r1a	5': GAA GAC CGG ATC CCC AAC TC 3': CGT CTG GAG CTC TTT CAT GGT
Sorcs1	5': TGA GAT GTG AAG AGC GGG ATT 3': CTG CCC TGT GCT TTG CAT AC	Atp1b1	5': CGG TGA CTT TCC CTC CTT GTC 3': AAG CTG TAG CTG CAC CAC TCT
Gzmd	5': ATG TGG TGA AGC CAC ACT CC 3': GGA CAG AGC TGT TTT TGC AGT	Rcan2	5': GTT GGC TGG AAG CCT ATC 3': CTC TCC TGG TCC TAG TTT GG
Rassf4	5': GGC ACA ATT CTA GTG CAC GC 3': CCA GAG GTC ACC GTT CAG TC	Rgs8	5': TGT CAC TCA GGG TTT CAC CG 3': GGT TAA GGA GCT CTG CCT GG
Prss35	5': CTG GGA CGG GAG GAT ACA GT 3': GGG GCT GGC AAG ATG GAT AG	Nme7	5': CAC GGC CCT GAT ACT TTT GC 3': CCC AAC ATT CCT TCA CTG ATA GC
Fgf7	5': GAG AGG CTC AAG TTG CAC GA 3': CGG TTG CTC CTT GAC TTT TGT	Mgp	5': GCA ACC CTG TGC TAC GAA TC 3': GTA GTC ATC GCA GGC CTC TC
Tgfbr3	5': AGC TGC CAA AGT GTG TGA CT 3': CAG GGG CTT GGT GAA TGT CT	Wnt16	5': CTA TGA GCT GAG TAG CGG CAC 3': CAT TCG GTC ATG TTG CCT GC
Kcnn4	5': GAA GAG AAT CGA CGG TCT G 3': TCG GTC CTT GGG TAC TTA G	Klk4	5': GAA TTC GGA GCC CAG AAG CA 3': GGA GGC TCC TGT GAC CTC AA
Prss12	5': TGA CAG CGA TGG ACA TAG GC 3': TGG CAG GAC CCT TAT AGC CA	Olig1	5': GCT CCC CAA CAG TGT CTA CC 3': ATG GTT TGG CTG GAG AGA GC
Thbd	5': TAG GGC CCT GGA TCG GTT TA 3': CTG GTG TGG TTA TCG CCA GT	Pdgfb	5': TCC GTA GAT GAA GAT GGG GC 3': AGC TTT CCA ACT CGA CTC CG
Slc24a3	5': GGA TCG CAG CCT TCT CCT AC 3': GCC ATA TCC CCC ATC CCT TG	Acan	5': GCC AGG GGG AGT TGT ATT CC 3': TCA CAC TGC TCA TAG CCT GC
Mpz	5': CCT CTC AGG TCA CGC TCT ATG 3': GCC CGC TAA CCG CTA TTT C	Fhl1	5': GGG CTG TCA TCA AAG TAG 3': GCA ATT CTG GAG GGA AAG
Npy5r	5': AGG GCA TCC CGA GGA CTC TA 3': TGG AAA GGC AGT GTT CCG AG	Cspg4	5': TGC TCT ACC GGG TGG TAA GAG G 3': GAA GGG CTC AGA GGA CAT CTC G
Ednrb	5': GCG CAA TGG TCC CAA TAT C 3': TCT GCG AGC AAC TTG TAG G	Cav1	5': CAA CAA CCT CAA CTG CCT ACT C 3': CCC TAA ACA AAT GGC CGT AAC C
Dcn	5': TCC CTT ATG ACC CTG ACA ATC C 3': GTC CAA ACC CAG ATC AGA ACA C		

**Supplementary Table 2: Differentially expressed genes due to forskolin treatment.** A list with differentially expressed genes in treated Schwann cells (20µM forskolin) was compiled with an FDR-adjusted p-value < 0.05. The 25 transcripts with the highest positive or negative fold changes were highlighted in red.

Differentially expressed transcripts due to forskolin				Differentially expressed transcripts due to forskolin			
Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)	Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)
1190002N15Rik	0.000058	0.64	-1.56	Aoc3	0.004084	1.65	1.65
1200002N14Rik	0.000123	1.81	1.81	Apbb2	0.000860	0.58	-1.74
1200009O22Rik	0.000792	1.51	1.51	App12	0.000006	1.83	1.83
1700007G11Rik	0.001151	0.62	-1.61	Atf3	0.000309	0.30	-3.32
1700021K19Rik	0.000002	0.38	-2.64	Atp1a2	0.000001	0.65	-1.53
1700024G10Rik	0.000123	0.57	-1.75	<b>Atp1b1</b>	<b>0.000028</b>	<b>0.20</b>	<b>-4.97</b>
1700025G04Rik	0.000250	0.66	-1.52	Axud1	0.000509	0.63	-1.59
1700029G01Rik	0.000010	1.62	1.62	Baalc	0.000001	2.94	2.94
1810011O10Rik	0.000007	1.71	1.71	Baalc	0.000000	2.67	2.67
2010004A03Rik	0.000020	0.55	-1.82	BC020002	0.000003	0.58	-1.74
2210410E06Rik	0.000001	0.58	-1.72	BC020108	0.000497	1.92	1.92
2310022B05Rik	0.000000	0.48	-2.07	BC050210	0.000374	0.66	-1.51
2310022M17Rik	0.000140	0.60	-1.66	Bcl2l1	0.000002	2.04	2.04
2310043L02Rik	0.000356	0.56	-1.79	Bcl3	0.002488	1.65	1.65
2310043N10Rik	0.000304	1.67	1.67	Bcl7a	0.000049	1.58	1.58
2410004L22Rik	0.000876	0.60	-1.67	Bmf	0.000011	2.66	2.66
2610524A10Rik	0.000000	0.55	-1.82	Bmp4	0.002119	1.54	1.54
2700094K13Rik	0.000059	0.63	-1.59	Bok	0.000087	0.61	-1.64
2810428I15Rik	0.000113	0.60	-1.68	Btbd11	0.000002	0.64	-1.57
2810439F02Rik	0.000018	1.79	1.79	C1qtnf1	0.000020	1.65	1.65
2810439F02Rik	0.000164	2.17	2.17	C1qtnf3	0.000535	0.58	-1.73
3300005D01Rik	0.000069	0.42	-2.39	C1qtnf3	0.000110	0.62	-1.60
4632401N01Rik	0.000001	2.01	2.01	Cacna1h	0.000931	1.69	1.69
4732458O05Rik	0.000590	0.65	-1.55	Calb2	0.000450	0.42	-2.39
4732460K03Rik	0.000034	0.43	-2.34	Camk2n1	0.000029	2.10	2.10
4833412C05Rik	0.000000	0.55	-1.83	Camk2n1	0.000005	2.11	2.11
4833431D13Rik	0.002122	1.59	1.59	Capn5	0.000282	1.69	1.69
4932416A11Rik	0.000002	1.94	1.94	<b>Cav1</b>	<b>0.000000</b>	<b>0.29</b>	<b>-3.49</b>
4933421H10Rik	0.001195	1.62	1.62	Ccdc80	0.000057	0.63	-1.58
5430406J06Rik	0.000006	1.68	1.68	<b>Ccl11</b>	<b>0.000186</b>	<b>6.20</b>	<b>6.20</b>
5430435G22Rik	0.000031	0.48	-2.07	<b>Ccl11</b>	<b>0.000004</b>	<b>10.68</b>	<b>10.68</b>
5430435G22Rik	0.000001	0.53	-1.90	Ccl7	0.003240	2.16	2.16
5530400B01Rik	0.001020	1.53	1.53	Ccl7	0.000333	1.92	1.92
5730409K12Rik	0.000002	0.66	-1.50	Ccrn4l	0.000008	0.58	-1.73
5730478M09Rik	0.000008	0.61	-1.63	Cd109	0.000001	0.42	-2.37
6330403K07Rik	0.000004	2.67	2.67	Cd109	0.000000	0.32	-3.14
6330403M23Rik	0.000059	1.58	1.58	Cd200	0.000000	0.51	-1.97
9430064K01Rik	0.000273	1.60	1.60	Cd200	0.000032	0.62	-1.61
9530064J02	0.000098	0.66	-1.52	Cd80	0.001090	0.60	-1.67
9930031P18Rik	0.000422	1.99	1.99	Cda	0.003023	1.51	1.51
A130010C12Rik	0.000124	1.51	1.51	Cdca3	0.003955	0.65	-1.53
A130082M07Rik	0.000031	0.62	-1.62	Cdh10	0.000047	0.56	-1.80
A430103B12Rik	0.000309	1.60	1.60	Cdh19	0.002132	0.62	-1.62
A530088H08Rik	0.000022	0.53	-1.90	Cdh19	0.000342	0.59	-1.69
A730085F06Rik	0.000008	1.59	1.59	Cdh5	0.003800	1.50	1.50
Aadacl1	0.000185	1.59	1.59	Cdk5rap2	0.000423	0.63	-1.58
Aat1	0.000216	1.65	1.65	Cdkn1a	0.001536	0.59	-1.71
Abcb4	0.000045	0.46	-2.17	Cdkn1c	0.003230	1.80	1.80
Abcc4	0.000040	2.01	2.01	Ceacam2	0.001093	1.58	1.58
Abr	0.000084	1.83	1.83	Cebpb	0.000479	2.04	2.04
Acaa2	0.003101	0.64	-1.55	Ch25h	0.000010	0.54	-1.87
<b>Acan</b>	<b>0.000000</b>	<b>0.27</b>	<b>-3.72</b>	Chst2	0.002840	0.65	-1.53
Acan	0.000000	0.41	-2.43	Ckb	0.000006	0.65	-1.55
Acot1	0.000001	1.99	1.99	Clasp1	0.000006	1.53	1.53
Acta2	0.000053	0.64	-1.57	Clca4	0.001403	1.50	1.50
Acta2	0.000068	0.65	-1.55	Clcf1	0.000005	1.69	1.69
Acta2	0.000005	0.60	-1.65	Clcf1	0.000107	1.54	1.54
Actg2	0.000016	0.61	-1.64	Clcf1	0.000077	1.58	1.58
Acvr1	0.000391	0.66	-1.51	Clmn	0.000030	1.62	1.62
Adams1	0.000306	0.61	-1.63	Cnksr2	0.000001	0.51	-1.96
Adams12	0.000001	0.52	-1.93	Cnn2	0.003388	0.67	-1.50
Adams15	0.000116	1.56	1.56	Col14a1	0.000005	2.73	2.73
Adams15	0.000251	0.61	-1.65	Col14a1	0.000000	2.63	2.63
Add3	0.000000	2.24	2.24	Col15a1	0.000009	0.48	-2.10
Add3	0.000000	2.00	2.00	Col28a1	0.000051	0.58	-1.72
Aebp1	0.000212	1.51	1.51	Col4a5	0.000017	0.63	-1.60
Agrn	0.000056	0.60	-1.66	Col5a2	0.003559	0.66	-1.51
Alcam	0.000004	2.07	2.07	Col8a1	0.001428	0.63	-1.59
Aldh1a3	0.000514	0.53	-1.89	Coro2b	0.000026	1.77	1.77
Aldh1a3	0.000066	0.37	-2.71	Cpne8	0.001910	0.61	-1.64
Ankrd39	0.000578	0.64	-1.57	Crabp2	0.000175	2.09	2.09
Anp32e	0.000013	0.63	-1.59	Creb5	0.000039	0.52	-1.92
Anxa1	0.000020	0.55	-1.81	Crhbp	0.000006	1.83	1.83

Supplementary Table 2: continued

Differentially expressed transcripts due to forskolin			Differentially expressed transcripts due to forskolin				
Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)	Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)
Crispld2	0.000948	1.61	1.61	Fgf7	0.000437	3.78	3.78
Crif1	0.000001	1.53	1.53	Fgfr1	0.000243	1.97	1.97
Cryab	0.000033	0.55	-1.83	Fhl1	0.000000	0.27	-3.64
Csmd2	0.000700	1.63	1.63	Fhl1	0.000000	0.32	-3.13
Cspg4	0.000000	0.28	-3.52	Fjx1	0.000168	1.97	1.97
Csrp3	0.000332	0.64	-1.56	Fjx1	0.000243	1.65	1.65
Cthrc1	0.000000	2.39	2.39	Fkh18	0.000072	0.54	-1.86
Ctsb	0.002984	1.53	1.53	Flt1	0.000003	0.52	-1.94
Cx3cl1	0.003110	1.76	1.76	Fmn2	0.000246	1.57	1.57
Cxcl1	0.002912	2.01	2.01	Fmn3	0.000000	0.59	-1.70
Cxcl12	0.003575	1.91	1.91	Fmn3	0.000001	0.56	-1.80
Cxcl12	0.001442	1.81	1.81	Fmod	0.001786	2.03	2.03
Cxcl14	0.000115	2.57	2.57	Foxi2	0.000000	1.88	1.88
Cxcl14	0.000860	1.72	1.72	Foxo1	0.001664	0.55	-1.81
Cyp2d22	0.000081	1.66	1.66	Frdm4a	0.000512	1.63	1.63
D030063E12	0.000000	1.86	1.86	Fxyd3	0.001011	2.34	2.34
D030072B18Rik	0.000001	0.66	-1.51	Fxyd5	0.000003	0.61	-1.65
DOH4S114	0.000004	1.66	1.66	Fxyd5	0.000181	0.64	-1.56
D12Ertid553e	0.000619	1.68	1.68	Fxyd5	0.000149	0.64	-1.57
D16Ertid472e	0.000045	1.55	1.55	Fyb	0.000083	0.56	-1.78
D1Ertid471e	0.002910	0.60	-1.67	Fzd2	0.000048	1.52	1.52
D330020A13Rik	0.000001	1.85	1.85	Fzd6	0.000004	1.80	1.80
D330027H18Rik	0.000000	0.60	-1.66	Fzd6	0.000000	2.17	2.17
D630040I23Rik	0.000030	0.60	-1.67	Gab1	0.000001	0.42	-2.41
Dap	0.000018	0.66	-1.51	Gabbr3	0.000018	0.53	-1.89
Dbndd2	0.000000	0.48	-2.06	Gabbr3	0.000046	0.59	-1.70
Dclk1	0.000575	1.73	1.73	Gadd45b	0.000003	0.54	-1.87
Dcn	0.002973	2.90	2.90	Galnt2	0.000000	1.61	1.61
Dcn	0.000668	3.16	3.16	Galnt2	0.000003	1.74	1.74
Ddit4	0.000000	2.27	2.27	Galnt2	0.000020	1.84	1.84
Ddit4l	0.003681	1.50	1.50	Galnt4	0.001064	0.53	-1.88
Depdc6	0.000878	1.59	1.59	Gap43	0.000036	0.50	-2.00
Des	0.000003	0.50	-1.99	Gas2l3	0.000054	1.68	1.68
Dhh	0.000000	1.80	1.80	Gas2l3	0.001408	1.59	1.59
Dhx32	0.000032	0.57	-1.75	Gdf1	0.000021	1.73	1.73
Diras1	0.000001	0.41	-2.47	Gdnf	0.002929	0.65	-1.54
Dlk1	0.000515	1.69	1.69	Gdpd5	0.000309	1.66	1.66
Dlk1	0.000030	2.10	2.10	Gfap	0.004051	1.52	1.52
Dm15	0.000049	0.58	-1.73	Gja1	0.002280	1.80	1.80
Dok5	0.000002	0.59	-1.70	Glis1	0.000486	1.82	1.82
Dok5	0.000147	0.64	-1.55	Gng2	0.001858	1.63	1.63
Dst	0.000612	1.55	1.55	Gng2	0.000472	1.74	1.74
Dstn	0.000018	0.67	-1.50	Gnptab	0.000001	1.57	1.57
Dtna	0.000000	0.40	-2.51	Gp38	0.000927	1.65	1.65
Dtna	0.000082	0.60	-1.67	Gpbar1	0.000420	0.63	-1.58
Dusp4	0.000370	0.66	-1.52	Gpr137b	0.000095	1.60	1.60
Dusp4	0.000914	0.61	-1.64	Gpr153	0.000252	1.52	1.52
Dusp8	0.000026	1.71	1.71	Gpr176	0.000000	0.41	-2.43
Dysf	0.000000	0.55	-1.82	Gpr23	0.000011	1.58	1.58
E230013M07Rik	0.000000	5.49	5.49	Gse1	0.000033	1.59	1.59
E330035H20Rik	0.000004	1.71	1.71	Gsn	0.001129	0.62	-1.61
Ednrb	0.000001	3.25	3.25	Gsta4	0.000677	1.67	1.67
Ednrb	0.000000	2.32	2.32	Gstm1	0.000002	1.63	1.63
Ednrb	0.000000	2.05	2.05	Gucy1a3	0.002333	0.61	-1.65
EG574403	0.002279	1.53	1.53	Gzmd	0.002338	1.61	1.61
Egfl8	0.000068	6.19	6.19	Gzmd	0.002419	4.95	4.95
Egfl8	0.000104	5.04	5.04	Gzme	0.003553	3.09	3.09
Egr3	0.000001	7.26	7.26	Gzme	0.003961	2.22	2.22
Ehd4	0.000029	0.62	-1.60	Hdac4	0.002296	1.54	1.54
Emb	0.002300	2.50	2.50	Hdac5	0.000754	0.65	-1.53
En1	0.000490	0.52	-1.93	Hdac5	0.000002	0.60	-1.67
Enc1	0.000343	0.35	-2.88	Hebp1	0.000440	0.63	-1.59
Endod1	0.000006	0.48	-2.09	Heyl	0.000240	0.57	-1.74
Entpd2	0.004328	1.92	1.92	Hist1h2af	0.000275	0.66	-1.52
Epb4.114b	0.000001	2.62	2.62	Hist1h2ah	0.004376	0.63	-1.60
Epb4.114b	0.000001	2.66	2.66	Hmga1	0.000010	0.53	-1.89
Errfi1	0.000249	2.87	2.87	Hs2st1	0.000000	0.66	-1.51
Ets1	0.000000	0.58	-1.72	Hs3st3a1	0.000307	0.55	-1.80
Fabp3	0.000109	0.57	-1.75	Hsd11b1	0.000535	1.60	1.60
Fam132b	0.000808	0.62	-1.61	Hsd17b11	0.000239	1.59	1.59
Fam134b	0.000030	2.04	2.04	Hspa11	0.000110	0.61	-1.65
Fam171b	0.002227	0.42	-2.40	Hspb1	0.000062	0.38	-2.66
Farp2	0.000002	1.85	1.85	Hspb2	0.000037	0.53	-1.88
				Hspb3	0.000005	0.50	-2.00
				Htra3	0.000998	0.63	-1.59

Supplementary Table 2: continued

Differentially expressed transcripts due to forskolin				Differentially expressed transcripts due to forskolin			
Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)	Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)
ld1	0.002180	1.50	1.50	LOC100045228	0.000279	2.20	2.20
ld2	0.000000	2.12	2.12	LOC100047214	0.000075	1.63	1.63
ldb2	0.000000	3.03	3.03	LOC100047268	0.000292	2.02	2.02
lfit2	0.002078	0.66	-1.51	LOC100047583	0.000444	0.35	-2.82
lgf1	0.000049	0.63	-1.60	LOC100047606	0.000006	1.82	1.82
lgf1	0.000001	0.53	-1.89	LOC100047619	0.000125	0.63	-1.58
lgfbp3	0.000001	0.40	-2.47	LOC100047659	0.000003	3.07	3.07
lgfbp3	0.000227	0.50	-2.02	LOC100047808	0.000013	0.41	-2.47
lgfbp5	0.000000	1.85	1.85	LOC100048721	0.000468	1.52	1.52
lgfbp5	0.000001	2.09	2.09	LOC218877	0.000013	1.72	1.72
lgfbp5	0.000000	2.14	2.14	LOC234081	0.000026	0.53	-1.88
lgsf11	0.000003	2.77	2.77	LOC240672	0.000010	0.40	-2.50
lgsf11	0.000007	2.77	2.77	LOC638935	0.000007	0.52	-1.92
lgsf4a	0.000000	0.46	-2.16	LOC666036	0.000000	0.54	-1.85
lkbkg	0.000001	1.63	1.63	Loxl4	0.000133	0.55	-1.82
Il11	0.000000	7.24	7.24	Lpcat2	0.001179	0.58	-1.74
Il33	0.003905	1.75	1.75	Lrrc17	0.002276	1.71	1.71
Il6	0.002469	1.51	1.51	Lrrn3	0.000000	0.42	-2.39
Inpp5a	0.000009	0.55	-1.83	Lrrtm2	0.000941	1.92	1.92
Inpp5a	0.000004	0.53	-1.89	Lrtm1	0.000010	0.09	-11.60
Inpp5f	0.002289	1.59	1.59	Lrtm1	0.000018	0.09	-10.92
Inpp1	0.000558	0.65	-1.54	Lum	0.001457	1.98	1.98
lqgap2	0.000585	2.17	2.17	Lypd1	0.000378	0.64	-1.57
lrf6	0.000001	0.38	-2.61	Mapk9	0.000262	0.65	-1.53
lrgm1	0.004311	0.66	-1.51	Matn2	0.000001	1.62	1.62
ltga1	0.000000	0.49	-2.05	Mbp	0.000000	0.10	-9.98
ltga5	0.000262	0.64	-1.56	Mbp	0.000016	0.40	-2.51
ltgb4	0.000036	1.63	1.63	Mcf2l	0.000045	0.55	-1.81
ltgb4	0.000177	1.68	1.68	Mdga2	0.000225	0.65	-1.53
ltgb5	0.000096	0.54	-1.86	Mdh1	0.000175	0.59	-1.70
ltgb8	0.000002	1.59	1.59	Me2	0.000729	0.66	-1.51
ltpk1	0.001470	0.63	-1.59	Mef2c	0.000068	0.46	-2.19
lvi	0.000291	0.56	-1.79	Mef2c	0.000000	0.33	-3.03
Jun	0.000020	0.62	-1.61	Mef2c	0.000000	0.36	-2.81
Kcna6	0.000028	1.60	1.60	Meox1	0.000124	0.67	-1.50
Kcna6	0.000011	1.62	1.62	Mertk	0.002382	1.64	1.64
Kcnab1	0.000363	0.65	-1.54	Mfap2	0.000007	1.55	1.55
Kcnab1	0.003562	0.67	-1.50	Mfap2	0.000203	1.69	1.69
Kcnh2	0.000017	2.08	2.08	Mgll	0.000063	0.57	-1.76
Kcnh2	0.000028	1.77	1.77	Mgll	0.000002	0.46	-2.18
Kcnj12	0.000169	0.64	-1.55	Mgll	0.000180	0.53	-1.88
Kcnk13	0.000001	0.40	-2.49	Mgp	0.000448	0.25	-4.01
Kcnk5	0.000000	2.08	2.08	Mgst1	0.000900	1.88	1.88
Kcnk5	0.000000	2.12	2.12	Mgst1	0.000695	2.66	2.66
Kcnn4	0.000000	3.62	3.62	Mid1ip1	0.000558	0.66	-1.52
Kif21a	0.000013	1.59	1.59	Mid2	0.000001	0.40	-2.49
Kif26a	0.000000	1.51	1.51	Mmd2	0.001290	1.50	1.50
Kitl	0.000289	1.76	1.76	Mmp15	0.000371	1.90	1.90
Klf13	0.000042	1.75	1.75	Mmp17	0.000003	0.41	-2.45
Klhl26	0.000002	1.70	1.70	Moxd1	0.000020	0.58	-1.73
Klh30	0.000000	0.14	-7.04	Moxd1	0.000012	0.59	-1.70
Klk4	0.000008	0.25	-3.95	Mpz	0.000072	3.41	3.41
Klk8	0.000001	0.33	-3.04	Myl9	0.000527	0.64	-1.57
Krt23	0.001666	0.64	-1.57	Myom1	0.000651	0.66	-1.53
Lama1	0.002195	1.75	1.75	Ncald	0.003406	1.58	1.58
Lbh	0.000000	0.35	-2.88	Ncam1	0.000030	2.20	2.20
Lbh	0.000000	0.34	-2.98	Ncam1	0.002629	1.52	1.52
Leprel1	0.000001	0.52	-1.93	Ndrp1	0.000000	2.21	2.21
Leprel1	0.000000	0.34	-2.94	Ndr1	0.000000	2.12	2.12
Lgi4	0.000215	1.87	1.87	Nedd4l	0.000017	0.65	-1.53
Lgmn	0.000000	0.52	-1.94	Nek1	0.001319	1.63	1.63
Lgr6	0.000055	0.66	-1.50	Nid1	0.000002	1.77	1.77
Lhfp	0.000068	1.68	1.68	Nid1	0.000050	1.88	1.88
Lhfp	0.000288	1.76	1.76	Nme7	0.000042	0.55	-1.80
Lhfp	0.000142	1.52	1.52	Nme7	0.000002	0.24	-4.12
Lims2	0.000000	0.42	-2.38	Nme7	0.000011	0.29	-3.42
Lims2	0.000000	0.45	-2.23	Nnat	0.000008	2.15	2.15
Lims2	0.000000	0.49	-2.05	Nppb	0.000184	0.54	-1.84
Lip1	0.000001	0.53	-1.87	Npr3	0.002365	2.86	2.86
Lip1	0.000084	0.61	-1.64	Npr3	0.000730	1.59	1.59
Liph	0.000176	1.82	1.82	Npr3	0.001797	1.84	1.84
Liph	0.000193	2.34	2.34	Npy1r	0.000012	2.37	2.37
LOC100044177	0.000006	3.09	3.09	Npy5r	0.000007	2.79	2.79
				Npy5r	0.000000	3.31	3.31
				Nr2f2	0.000111	1.66	1.66

Supplementary Table 2: continued

Differentially expressed transcripts due to forskolin				Differentially expressed transcripts due to forskolin			
Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)	Entrez ID	p-value	Mean Ratio (20 vs. 0)	Fold Change (20 vs. 0)
Nrbp2	0.000756	1.68	1.68	Ptpru	0.000054	1.88	1.88
Nupr1	0.000923	0.57	-1.76	Ptprz1	0.000096	0.30	-3.32
Olfml3	0.000735	1.86	1.86	Ramp3	0.000009	2.31	2.31
<b>Olig1</b>	<b>0.000857</b>	<b>0.25</b>	<b>-3.94</b>	Rap2a	0.000000	2.33	2.33
Osbpl3	0.000140	1.50	1.50	Rasl12	0.000656	0.60	-1.66
OTTMUSG00000002196	0.000113	0.43	-2.31	Rassf4	0.002989	1.54	1.54
P2rx5	0.000000	0.36	-2.80	<b>Rassf4</b>	<b>0.004456</b>	<b>4.34</b>	<b>4.34</b>
P2ry1	0.000036	0.60	-1.67	Rbms3	0.000031	1.81	1.81
Pacsin2	0.000118	0.66	-1.52	Rbmx	0.000060	0.65	-1.54
Padi2	0.000025	0.62	-1.62	Rbpm52	0.000045	0.66	-1.52
Parp14	0.000000	2.04	2.04	<b>Rcan2</b>	<b>0.000008</b>	<b>0.21</b>	<b>-4.87</b>
Pbk	0.001506	0.58	-1.73	Rcan2	0.000000	0.35	-2.85
Pcdh17	0.001548	0.54	-1.87	Rcsd1	0.001466	0.66	-1.52
<b>Pcdh20</b>	<b>0.000000</b>	<b>0.07</b>	<b>-14.02</b>	Rdh5	0.000477	1.66	1.66
<b>Pcdh20</b>	<b>0.000000</b>	<b>0.10</b>	<b>-10.07</b>	Reln	0.000030	2.73	2.73
Pdc4	0.000169	1.53	1.53	Rftn1	0.000688	0.60	-1.66
Pde10a	0.000072	1.52	1.52	Rgs16	0.000001	0.33	-3.01
Pde1a	0.002561	1.71	1.71	Rgs3	0.000000	0.58	-1.72
Pde1a	0.002365	2.00	2.00	<b>Rgs8</b>	<b>0.000010</b>	<b>0.22</b>	<b>-4.61</b>
<b>Pde1b</b>	<b>0.000000</b>	<b>0.09</b>	<b>-11.30</b>	Rhoc	0.000149	0.67	-1.50
<b>Pde1b</b>	<b>0.000000</b>	<b>0.08</b>	<b>-12.05</b>	Rin1	0.000002	0.63	-1.60
Pde4b	0.000000	2.54	2.54	Rnf125	0.001748	1.68	1.68
Pde4d	0.000069	1.71	1.71	Robo2	0.000845	1.62	1.62
Pde7b	0.000053	1.84	1.84	Rorb	0.000038	1.62	1.62
Pdgfa	0.000747	0.64	-1.57	Rrm2	0.000226	0.64	-1.56
<b>Pdgfb</b>	<b>0.000314</b>	<b>0.26</b>	<b>-3.84</b>	Rxfp3	0.000103	0.60	-1.67
Pea15	0.000001	0.53	-1.89	Satb1	0.000000	0.32	-3.16
Pea15a	0.000191	0.57	-1.74	Scd1	0.000039	1.61	1.61
Pgf	0.000002	0.44	-2.27	sc1000981.1_40	0.003147	1.56	1.56
Phgdh	0.000025	0.53	-1.90	Sema3b	0.000002	2.00	2.00
Pik3r1	0.000294	1.69	1.69	Sema3b	0.000436	1.69	1.69
Pitpnc1	0.003041	1.62	1.62	Sema6b	0.002104	1.83	1.83
Pkig	0.000001	1.71	1.71	Sema6b	0.000987	1.71	1.71
Pla2g7	0.000083	1.93	1.93	39692	0.000066	0.66	-1.51
Plau	0.000221	2.41	2.41	Sfrp1	0.003690	1.96	1.96
Pld3	0.000022	1.71	1.71	Sfrp1	0.000487	1.88	1.88
<b>Plekha4</b>	<b>0.000000</b>	<b>4.15</b>	<b>4.15</b>	Sgk1	0.002665	1.89	1.89
<b>Plekha4</b>	<b>0.000000</b>	<b>17.53</b>	<b>17.53</b>	Sgsm3	0.000001	1.56	1.56
Plekhh1	0.000000	1.67	1.67	Shh	0.000420	2.49	2.49
Plip	0.001800	0.64	-1.57	Slamf9	0.000341	0.61	-1.63
Plxna2	0.000214	0.58	-1.71	Slc16a11	0.000009	1.52	1.52
Pmaip1	0.002204	0.65	-1.55	Slc17a8	0.000000	1.89	1.89
Pmepa1	0.000323	1.62	1.62	<b>Slc24a3</b>	<b>0.000037</b>	<b>3.53</b>	<b>3.53</b>
Pmepa1	0.000526	1.56	1.56	Slit2	0.000181	1.80	1.80
Pmp22	0.003731	1.52	1.52	Slit3	0.000000	1.83	1.83
Ppap2a	0.000226	0.47	-2.11	Smad3	0.000166	1.57	1.57
Ppap2a	0.000001	0.47	-2.11	Snta1	0.000001	0.49	-2.03
Ppap2a	0.000000	0.38	-2.66	Snx10	0.000069	1.57	1.57
Ppap2b	0.001931	2.76	2.76	Snx16	0.000374	2.69	2.69
Ppap2b	0.000091	2.81	2.81	Snx7	0.001131	0.62	-1.61
Pbbp	0.001434	1.71	1.71	Socs3	0.003840	1.85	1.85
Pbbp	0.001813	1.94	1.94	Sod3	0.000072	2.31	2.31
Ppm2c	0.000696	0.65	-1.53	Sorcs1	0.000000	2.55	2.55
<b>Ppp1r1a</b>	<b>0.000002</b>	<b>0.17</b>	<b>-5.83</b>	<b>Sorcs1</b>	<b>0.000000</b>	<b>5.68</b>	<b>5.68</b>
Ppp3ca	0.000000	2.16	2.16	Sorcs1	0.000002	1.55	1.55
Ppp3ca	0.000026	2.23	2.23	<b>Sostdc1</b>	<b>0.000002</b>	<b>35.54</b>	<b>35.54</b>
Prelp	0.000006	1.66	1.66	<b>Spon2</b>	<b>0.001100</b>	<b>14.12</b>	<b>14.12</b>
Prkg1	0.000041	0.34	-2.90	Spsb4	0.000001	0.40	-2.48
Prkg1	0.000000	0.40	-2.51	Srpx2	0.002500	0.63	-1.58
Pr12c2	0.001734	1.57	1.57	Ssbp2	0.000009	1.52	1.52
Pros1	0.001808	1.64	1.64	St3gal5	0.000085	0.55	-1.81
<b>Prss12</b>	<b>0.000004</b>	<b>3.61</b>	<b>3.61</b>	Stc1	0.000171	1.70	1.70
Prss12	0.000005	3.16	3.16	<b>Stc2</b>	<b>0.000039</b>	<b>0.11</b>	<b>-8.82</b>
Prss23	0.000005	0.53	-1.89	Stmn4	0.000256	0.60	-1.67
<b>Prss35</b>	<b>0.000339</b>	<b>4.18</b>	<b>4.18</b>	Stmn4	0.000060	0.61	-1.65
Psm8	0.000000	0.61	-1.64	Sv2b	0.001656	0.55	-1.82
Ptgis	0.001424	0.66	-1.51	Svep1	0.001823	2.53	2.53
Ptk2	0.000012	0.64	-1.56	Syn1	0.000052	1.71	1.71
Ptn	0.000005	2.82	2.82	Syn1	0.001779	1.58	1.58
Ptpla	0.000513	0.64	-1.55	Synpo	0.000129	1.53	1.53
Ptprn	0.000128	1.51	1.51	Tbc1d7	0.001003	1.77	1.77
Ptprt	0.000007	0.64	-1.56	Tcap	0.000035	0.33	-3.02
Ptpru	0.000005	1.62	1.62	Tcap	0.000752	0.55	-1.81
				Tcf3	0.000008	1.51	1.51

Supplementary Table 2: continued

Differentially expressed transcripts due to forskolin	Mean Ratio	Fold Change
Entrez ID	p-value	(20 vs. 0)
Tctn3	0.000012	1.54
Tctn3	0.000000	2.05
<b>Tgfr3</b>	<b>0.000000</b>	<b>3.72</b>
Tgfr3	0.002110	1.50
Tgm2	0.000025	0.48
<b>Thbd</b>	<b>0.000091</b>	<b>3.59</b>
Thbs1	0.000005	0.50
Thsd4	0.000024	0.47
Tia1	0.000302	1.51
Tmem100	0.000338	1.89
<b>Tmem158</b>	<b>0.000165</b>	<b>0.11</b>
Tmem45a	0.000134	1.58
Tmod2	0.000005	1.80
Tnc	0.001404	0.58
Tnc	0.000002	0.57
Tnik	0.000012	0.53
Tnik	0.000147	0.48
Tnk2	0.004450	1.50
Tns3	0.000004	0.67
Trib2	0.000014	0.60
Trim2	0.000595	1.51
Trim47	0.000206	0.54
Trp53inp2	0.000030	1.59
Tsc22d4	0.003080	1.87
Ttll5	0.000044	1.78
Ttll5	0.000165	1.60
Twist2	0.003283	1.58
Ube2e2	0.000508	0.57
Uck2	0.000010	0.62
Uck2	0.000436	0.61
Ugp2	0.000001	0.36
Ugt1a10	0.000147	2.43
Ugt1a10	0.000002	2.05
Ugt1a10	0.000090	2.20
Ugt1a6a	0.000643	1.64
Ugt1a6a	0.000034	1.91
Ugt1a6b	0.000006	2.45
Usp6nl	0.000011	1.65
Vamp5	0.000475	0.60
Vcan	0.001572	1.97
Vcan	0.001250	2.28
Vcan	0.001253	2.09
Vdr	0.002828	1.91
Vsnl1	0.002117	0.64
Vstm2b	0.000515	1.66
Wnt10b	0.000000	0.48
Wnt16	0.002631	0.39
<b>Wnt16</b>	<b>0.000012</b>	<b>0.25</b>
<b>Wnt16</b>	<b>0.000001</b>	<b>0.28</b>
Xdh	0.001479	1.62
Ybx3	0.001143	1.83
Zfp185	0.001445	0.59
Zfp219	0.000019	1.50
Zfp704	0.000402	1.52

**Supplementary Table 3: Differential gene expression upon forskolin treatment.** Raw data of the Figure 1. The mRNA expression levels of selected genes was investigated by qRT-PCR. Data were normalized to the expression of 60s. The columns represent the mean value of twelve experimental samples, and the error bars indicate the SEM. n.d.: not detected

	0 $\mu$ M Forskolin												20 $\mu$ M Forskolin												pvalue		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	0 $\mu$ M	20 $\mu$ M	
A																											
Sostdc1	0.62	0.56	1.01	1.13	1.13	n.d.	1.45	0.79	0.67	1.26	1.15	1.24	8.42	11.49	10.37	10.24	8.77	16.00	19.51	5.65	6.02	9.25	11.51	12.22	1.00	10.79	0.0000028
Plekha4	0.25	n.d.	0.44	0.36	0.68	0.42	0.58	0.22	5.67	0.41	0.97	n.d.	116.60	91.81	41.61	68.56	68.56	87.04	42.73	28.79	37.80	21.32	23.56	66.06	1.00	57.87	0.0000416
Spon2	1.37	1.33	1.07	1.88	1.15	1.09	1.47	0.58	0.71	0.48	0.28	0.59	6.60	7.49	8.31	10.47	6.94	7.07	10.85	3.92	3.41	3.74	4.39	2.09	1.00	6.27	0.0000384
Ccl11	1.61	0.97	0.83	0.98	0.92	1.26	1.87	1.13	0.71	0.69	0.57	0.43	23.33	18.06	39.12	25.07	25.92	30.51	27.63	13.10	14.36	14.55	14.98	18.68	1.00	22.11	0.0000016
Egr3	0.48	0.53	0.53	0.94	0.59	0.67	1.11	2.15	1.47	1.03	1.33	1.19	21.55	22.41	10.59	12.71	8.41	14.10	13.26	7.80	6.75	6.68	8.03	8.44	1.00	11.73	0.0000257
Il11	2.30	2.94	0.72	1.30	1.29	0.81	0.86	0.32	0.39	0.36	0.38	0.33	28.29	26.59	12.02	13.05	10.11	13.28	13.05	9.08	8.11	8.79	9.24	11.26	1.00	13.57	0.0000428
Egfr8	0.86	0.81	0.95	1.34	1.04	0.99	1.21	1.04	0.90	0.97	0.81	1.07	6.08	8.14	5.39	5.46	5.20	6.35	5.43	2.66	2.85	3.19	3.29	4.59	1.00	4.89	0.0000049
Sorcs1	1.48	1.40	1.14	1.40	1.21	0.89	0.97	0.93	0.58	0.67	0.58	0.75	8.30	6.67	5.37	5.08	4.39	4.19	3.62	2.47	2.76	2.55	2.78	3.86	1.00	4.34	0.0000398
Gzmd	0.29	0.53	1.99	1.98	1.45	1.44	2.23	0.50	0.70	0.44	0.35	0.10	15.35	16.63	31.22	33.38	37.01	43.68	39.01	31.01	22.35	18.70	22.78	25.48	1.00	28.05	0.0000006
Rassf4	0.55	0.33	1.01	1.29	1.08	1.39	1.85	0.82	0.77	0.95	1.13	0.84	1.88	1.69	2.41	2.74	2.04	5.97	5.31	1.49	1.83	1.95	2.83	2.93	1.00	2.76	0.0013174
Prss35	1.10	0.76	0.97	1.22	1.06	1.38	1.42	0.77	0.76	0.84	0.81	0.92	1.52	1.24	1.53	1.77	1.55	2.27	2.24	1.02	1.05	1.38	1.19	1.81	1.00	1.55	0.0009430
Fgf7	0.59	0.61	0.60	0.96	0.76	1.33	1.49	1.35	1.35	0.83	1.11	1.01	5.25	4.42	5.90	6.65	4.96	6.84	7.52	6.42	5.41	5.13	5.84	7.99	1.00	6.03	0.0000000
Tgfb3	1.26	0.94	1.05	1.31	1.10	1.10	1.06	0.88	1.17	0.98	0.91		7.37	7.61	5.77	5.83	4.79	5.88	4.95	3.06	3.02	3.07	3.81	4.41	1.00	4.96	0.0000023
Kcnn4	1.38	1.41	0.96	1.41	1.22	0.90	0.96	0.88	0.74	0.57	0.71	0.86	7.92	6.56	4.87	5.35	3.88	3.83	3.13	2.12	2.03	2.23	2.79	3.42	1.00	4.01	0.0001418
Prss12	1.10	1.41	1.16	1.62	1.19	0.95	1.21	0.65	0.66	0.73	0.63	0.70	6.67	7.23	7.15	6.31	4.71	7.06	16.43	3.45	3.08	3.37	4.41	4.98	1.00	6.24	0.0003451
Tbhd	0.82	0.60	1.10	1.58	1.01	1.22	1.75	0.78	0.87	0.76	0.75	0.77	4.35	5.16	6.26	8.57	6.47	9.32	9.14	5.57	4.68	5.96	6.02	7.42	1.00	6.58	0.0000001
Slc24a3	0.47	0.54	0.70	1.36	1.12	0.93	1.45	1.11	1.24	0.99	1.17	0.92	5.76	7.63	3.55	4.87	3.18	4.85	4.99	1.87	1.92	1.63	2.38	2.83	1.00	3.79	0.0002660
Mpz	0.14	0.45	0.90	1.43	1.45	0.67	1.09	1.18	1.18	1.19	1.17	1.16	5.35	7.50	7.21	16.34	5.81	7.78	6.05	5.50	5.86	7.21	6.54	7.69	1.00	7.40	0.0000103
Npy5r	n.d.	0.02	1.68	0.60	2.67	n.d.	0.09	1.29	0.58	1.34	0.89	0.83	15.62	20.27	9.39	17.23	13.40	13.77	15.01	5.05	11.83	4.42	6.39	12.71	1.00	12.09	0.0000068
Ednrb	0.70	0.73	1.35	1.43	1.19	1.03	1.00	0.64	0.86	1.16	0.85	1.06	3.30	5.67	3.27	3.86	3.06	4.45	2.60	2.24	2.27	2.63	3.43	3.17	1.00	3.33	0.0000029
Dcn	0.65	0.64	0.64	0.95	1.03	0.97	2.12	1.13	1.22	0.69	1.28	0.68	3.17	3.03	3.05	3.31	2.41	3.73	6.70	2.91	2.79	2.75	3.33	3.36	1.00	3.38	0.0000060
B																											
Pde1b	1.65	1.41	0.99	1.41	1.17	0.98	0.88	0.78	0.70	0.68	0.60	0.74	0.06	0.07	0.03	0.05	0.04	0.05	0.03	0.03	0.02	0.02	0.03	0.04	1.00	0.04	0.0000009
Lrtm1	1.97	1.92	0.95	1.33	1.32	0.61	0.93	0.73	0.62	0.56	0.48	0.56	0.46	0.45	0.20	0.22	0.14	0.12	0.11	0.08	0.08	0.07	0.08	0.10	1.00	0.17	0.0001747
Pcdh20	1.69	1.87	0.92	1.42	0.74	0.80	1.32	0.58	0.61	0.51	0.87	0.66	0.14	0.09	0.07	0.06	0.07	0.09	0.05	0.05	0.03	0.06	0.08	0.10	1.00	0.07	0.0000225
Mbp	0.56	0.68	0.97	1.50	1.19	0.73	1.12	1.07	0.92	1.10	0.97	1.19	0.03	0.04	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.03	1.00	0.03	0.0000000
Tmem158	1.42	2.18	1.00	1.48	1.27	0.69	0.87	0.83	0.68	0.53	0.54	0.49	0.27	0.30	0.19	0.20	0.15	0.12	0.09	0.11	0.09	0.08	0.10	0.13	1.00	0.15	0.0001108
Stc2	1.94	1.73	0.90	1.30	1.21	0.78	0.93	0.84	0.69	0.55	0.52	0.61	0.29	0.28	0.13	0.16	0.11	0.12	0.10	0.07	0.06	0.05	0.07	0.09	1.00	0.13	0.0000344
Klhl30	1.12	1.16	1.03	1.51	1.10	1.03	1.25	0.85	0.87	0.89	0.70	0.49	0.18	0.19	0.14	0.19	0.17	0.15	0.13	0.11	0.08	0.07	0.09	0.13	1.00	0.14	0.0000002
Ppp1r1a	1.21	1.16	0.80	1.28	1.20	1.00	1.27	0.94	0.88	0.78	0.63	0.86	0.16	0.12	0.11	0.08	0.08	0.09	0.08	0.10	0.04	0.04	0.03	0.08	1.00	0.08	0.0000000
Atp1b1	2.31	1.67	0.88	1.40	1.27	0.85	0.92	0.67	0.56	0.46	0.44	0.57	0.25	0.20	0.16	0.15	0.14	0.13	0.12	0.07	0.08	0.07	0.08	0.09	1.00	0.13	0.0002318
Rcan2	2.59	1.66	0.78	1.06	1.10	0.83	0.83	0.74	0.56	0.65	0.54	0.66	0.13	0.12	0.09	0.09	0.09	0.07	0.05	0.04	0.04	0.04	0.06	0.06	1.00	0.07	0.0001965
Rgs8	1.09	0.97	0.96	1.27	1.19	1.00	0.98	0.95	0.81	0.88	0.91	0.97	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	1.00	0.02	0.0000000
Nme7	1.33	1.27	1.01	1.28	1.04	0.95	1.06	0.91	0.86	0.71	0.69	0.89	1.46	1.36	0.94	1.19	0.93	0.98	0.87	0.68	0.65	0.65	0.72	1.20	1.00	0.97	0.7640704
Mgp	1.39	1.48	0.67	1.21	0.90	0.76	1.36	0.96	1.01	0.66	0.93	0.66	0.19	0.28	0.16	0.19	0.17	0.17	0.26	0.15	0.15	0.12	0.21	0.18	1.00	0.19	0.0000010
Wnt16	1.10	0.93	0.94	1.20	1.18	1.07	1.21	1.09	0.75	0.86	0.75	0.92	0.50	0.42	0.48	0.50	0.48	0.45	0.37	0.29	0.27	0.27	0.33	0.43	1.00	0.40	0.0000000
Klk4	2.28	1.64	0.83	1.12	1.13	0.79	0.91	0.94	0.69	0.54	0.48	0.65	0.63	0.52	0.39	0.44	0.37	0.37	0.25	0.19	0.16	0.17	0.20	0.29	1.00	0.33	0.0007995
Olig1	1.70	1.61	0.92	1.26	0.97	1.00	1.36	0.83	0.75	0.44	0.76	0.40	1.09	1.15	0.52	0.50	0.35	0.49	0.48	0.18	0.18	0.12	0.17	0.27	1.00	0.46	0.0002173
Pdgrf	0.61	0.63	0.98	1.29	1.05	1.00	1.36	0.93	0.97	1.03	1.02	1.14	0.17	0.17	0.17	0.40	0.22	0.34	0.33	0.14	0.13	0.14	0.18	0.26	1.00	0.22	0.0000000
Acn	1.16	1.01	0.93	1.28	1.24	0.95	0.95	0.79	0.69	1.35	0.74	0.92	0.04	0.04	0.05	0.05	0.05	0.04	0.02	0.03	0.03	0.04	0.04	0.04	1.00	0.04	0.0000000
Fhl1	0.43	0.85	0.85	1.09	1.06	0.83	1.46	0.95	1.10	1.08	1.08	1.24	0.22	0.17	0.29	0.27	0.20	0.40	0.34	0.28	0.33	0.28	0.37	0.38	1.00	0.29	0.0000005
Cspg4	0.68	0.58	0.78	1.20	0.97	0.90	1.26	1.21	1.16	1.02	1.07	1.16	0.12	0.11	0.13	0.18	0.13	0.22	0.22	0.18	0.18	0.20	0.20	0.22	1.00	0.17	0.0000000
Cav1	0.53	0.51	0.76	1.15	1.05	1.13	1.49	1.07	0.99	0.95	1.23	1.15	0.18	0.20	0.29	0.31	0.26	0.47	0.47	0.42	0.36	0.58	0.47	0.72	1.00	0.39	0.0000050

**Supplementary Table 4: GO-annotation analysis of differentially expressed genes due to forskolin.** Raw data of the Figure 3. In forskolin-induced (A) and forskolin-reduced transcripts (B), a number of genes were associated with GO-annotations for extracellular matrix, extracellular region and plasma membrane. Several forskolin-reduced genes were associated with intracellular signaling, such as the MAPKKK cascade (B).

**A Induced gene transcripts**

**Molecular Function**

Category	Identification	Term	Count	%	p-value
GOTERM_MF_FAT	GO:0005509~	calcium ion binding	21	8.50	6.26E-03
<small>GALNT2, SVBP1, NCALD, NID1, MMP15, DLK1, SLIT2, CDH5, SLIT3, THBD, GNPATB, SLC2A3, CACNA1H, RELN, EGFL8, VCAN, SPON2, ENTPD2, PROS1, DST, AOC3</small>					
GOTERM_MF_FAT	GO:0005125~	cytokine activity	14	5.67	4.13E-07
<small>BMP4, CXCL1, IL6, GDF1, CXCL1, IL33, KITL, CXCL12, CCL7, IL11, CCL11, CXCL14, PPBP, CCLF1</small>					
GOTERM_MF_FAT	GO:0008009~	chemokine activity	7	2.83	9.46E-06
<small>CCL11, CXCL1, CXCL14, PPBP, CXCL1, CXCL12, CCL7</small>					
GOTERM_MF_FAT	GO:0008092~	cytoskeletal protein binding	15	6.07	8.96E-04
<small>CLMN, BCL2L11, FARP2, CDRO2B, FMN2, TRIM2, SYN1, TMOO2, MFAP2, EPB4, IL4B, CLASP1, LOC100044177, ADD3, DST, SYNPO</small>					
GOTERM_MF_FAT	GO:0003779~	actin binding	9	3.64	3.25E-02
<small>CDRO2B, FMN2, SYN1, CLMN, TMOO2, LOC100044177, DST, ADD3, SYNPO</small>					
GOTERM_MF_FAT	GO:0050840~	extracellular matrix binding	3	1.21	4.27E-02
<small>NID1, DCN, SHH</small>					

**Cellular Component**

Category	Term	Count	%	p-value	
GOTERM_CC_FAT	GO:0031012~	extracellular matrix	21	8.50	7.29E-09
<small>BMP4, MATN2, TMOO2, CTRHC1, LUM, ADAMTS15, NID1, MMP15, DCN, PRELP, LAMA1, COL14A1, CRISPLD2, PTN, TGFBR3, RELN, MFAP2, VCAN, SPON2, ENTPD2, PRSS12</small>					
GOTERM_CC_FAT	GO:0005576~	extracellular region	64	25.91	1.97E-15
<small>CTRHC1, AEBP1, GDF1, FGF7, CRHBP, CXCL12, SHH, IL11, OLFML3, CCLF1, SOSTDC1, LG4, SEMA3B, SPON2, PRSS5, MATN2, MMP15, SLIT2, SLIT3, PRELP, THBD, PPBP, PLA2G7, STC1, RELN, VCAN, MFAP2, EGFL8, CTSS, PROS1, HSD17B11, CXCL1, GALNT2, DHH, FMOD, LUM, ADAMTS15, CRF1, CX3CL1, DCN, IL33, CCL7, CRISPLD2, C10TNF1, PTN, ENTPD2, PRSS12, PRL2C2, BMP4, IL6, SVBP1, NID1, KITL, SOD3, CCL11, LAMA1, COL14A1, CXCL14, SFRP1, FIX1, LIPH, TGFBR3, PLAU, IGFBP5</small>					
GOTERM_CC_FAT	GO:0005886~	plasma membrane	51	20.65	2.76E-02
<small>SLC1A11, FGFRL1, GJA1, DLK1, SHH, EDNRB, UGT1A8, SLC2A3, UGT1A6, GNG2, ROBO2, LOC100041777, CEACAM2, RAP2A, MMP15, PTPRJ, PTPRN, NCAM1, UGT1A10, THBD, SCSM3, CTSS, KCN2, DST, ADD3, PMP21, AOC3, DHH, ITGB4, KXNA, CXCL1, CDH5, ALCAM, IGSF11, SYN1, ITGB8, SYNPO, TMEM5A, LOC100047606, IL6, SMAD3, NPY1R, KITL, NPY5R, CAMK2N1, FZD6, GPR153, SLIT7A8, KCN4, ABC4, TGFBR3, CACNA1H, TNK2</small>					
GOTERM_CC_FAT	GO:0005615~	extracellular space	28	11.34	5.93E-10
<small>CXCL1, DHH, GDF1, CRHBP, IL33, CX3CL1, CXCL12, SHH, CCL7, IL11, CCLF1, SOSTDC1, C10TNF1, PRL2C2, BMP4, IL6, KITL, SLIT2, SOD3, SLIT3, CCL11, THBD, CXCL14, PLA2G7, FIX1, RELN, STC1, IGFBP5</small>					

**Biological Process**

Category	Term	Count	%	p-value	
GOTERM_BP_FAT	GO:0010628~	positive regulation of gene expression	12	4.86	7.48E-02
<small>BMP4, HDAC4, IL6, CEBPB, KIF13, GLIS1, BCL3, SMAD3, RORR, SHH, IL11, PRL2C2</small>					
GOTERM_BP_FAT	GO:0007155~	cell adhesion	22	8.91	2.82E-05
<small>AEBP1, SVBP1, ITGB4, NID1, CX3CL1, PTPRJ, KITL, LOC10005228, CDH5, BCL2L11, ALCAM, NCAM1, LAMA1, IGSF11, COL14A1, ITGB8, RELN, ROBO2, VCAN, SPON2, DST, AOC3</small>					
GOTERM_BP_FAT	GO:0016477~	cell migration	10	4.05	5.42E-03
<small>EDNRB, GJA1, RELN, CX3CL1, NR2F2, CXCL12, KITL, PLAU, SHH, CCLK1</small>					
GOTERM_BP_FAT	GO:0042127~	regulation of cell proliferation	13	5.26	6.71E-02
<small>BMP4, IL6, FGF7, FGFRL1, SMAD3, KITL, SHH, CDH5, IL11, HDAC4, TGFBR3, PLAU, PRL2C2</small>					
GOTERM_BP_FAT	GO:0007267~	cell-cell signaling	13	5.26	6.81E-04
<small>BMP4, DHH, IL6, EGR3, FGF7, GJA1, FZD2, LOC100045228, SHH, NPY5R, SYN1, TMOO2, PPP3CA</small>					

**B Reduced gene transcripts**

**Molecular Function**

Category	Term	Count	%	p-value	
GOTERM_MF_FAT	GO:0005509~	calcium ion binding	21	9.17	4.67E-03
<small>PCDH20, ITGA1, ANXA1, MGP, PADI2, MMP17, LPCA12, PCDH17, CALB2, MYL9, GALNT14, ITGA5, GSN, LOC638935, CDH19, VSNL1, TGM2, THBS1, CDH10, SNTA1, EHD4, DTNA</small>					

**Cellular Component**

Category	Term	Count	%	p-value	
GOTERM_CC_FAT	GO:0031012~	extracellular matrix	18	7.86	3.98E-07
<small>WNT16, WNT10B, PTPR21, TNC, ADAMTS15, COL15A1, CDC80, COL28A1, MMP17, COL5A2, COL4A5, THSD4, ACAN, TGM2, ADAMTS12, AGRN, ADAMTS12, COL8A1</small>					
GOTERM_CC_FAT	GO:0005576~	extracellular region	39	17.03	2.33E-04
<small>WNT16, PDGFR, PDGFA, PGF, TNC, ADAMTS15, CD109, COL28A1, GDNF, FAM132B, C10TNF3, GSN, TGM2, ACAN, LOKL4, ADAMTS12, AGRN, HTRA3, COL8A1, THBS1, KLB3, WNT10B, STC2, PTPR21, COL15A1, CDC80, IGF1, MMP17, MGP, ENDOD1, COL5A2, COL4A5, 1190002V19R1K, SRPZ, THSD4, NPB, ADAMTS1, PRSS23, IGFBP5</small>					
GOTERM_CC_FAT	GO:0005604~	basement membrane	9	3.93	3.82E-06
<small>TNC, ACAN, COL15A1, CDC80, COL28A1, ADAMTS1, AGRN, COL8A1, COL4A5</small>					
GOTERM_CC_FAT	GO:0005886~	plasma membrane	54	23.58	2.29E-03
<small>LOC100047619, VYPD1, ATP1B1, GABRB3, CSPG4, LGRA, KCN12, CALB2, MCF2L, MIP, DIRAS1, DYSF, DES, SV2B, RHOC, GPR176, INPPL1, CRYAB, RFXP3, IMDGA2, MMP17, RETN1, TNS3, CD80, GPBAR1, VAMP5, HSPB1, GAP43, ACVR1, CAV1, LIMS2, PCDH20, CD109, ITGB5, PTK2, P2RY1, TGM2, PPAP2A, DTNA, CNKSR2, IRGM1, FLT1, ANXA1, ITGA1, ATP1A2, PCDH17, ABCB4, P2RX5, ITGA5, RGS3, CDH19, CD200, CDH10, SNTA1</small>					
GOTERM_CC_FAT	GO:0008305~	integrin complex	3	1.31	4.90E-02
<small>ITGA5, ITGA1, ITGB5</small>					

**Biological Process**

Category	Term	Count	%	p-value	
GOTERM_BP_FAT	GO:0010628~	positive regulation of gene expression	11	4.80	8.37E-02
<small>MEF2C, WNT10B, ETS1, MEK1, IRF6, JUN, FOXO1, IGF1, CREB3, AGRN, HMG1A1</small>					
GOTERM_BP_FAT	GO:0007242~	intracellular signaling cascade	22	9.61	4.75E-03
<small>CNKSR2, S430435Z81K, CAV1, TNK1, ROP3, STMN4, CSPG4, SP9B, PEAI5A, RASL1A, RASL12, RAN2, MCF2L, TNS3, DIRAS1, NUPR1, DOK5, GAB1, TGM2, GUCY1A3, MAPK9, RHOC, GADD45B</small>					
GOTERM_BP_FAT	GO:0000165~	MAPKKK cascade	6	2.62	1.39E-02
<small>CAV1, DOK5, GAB1, CSPG4, MAPK9, GADD45B</small>					
GOTERM_BP_FAT	GO:0007155~	cell adhesion	14	6.11	2.30E-02
<small>INPPL1, PCDH20, TNC, ITGA1, COL15A1, COL28A1, ITGB5, PCDH17, ITGA5, CDH19, ACAN, THBS1, COL8A1, CDH10</small>					
GOTERM_BP_FAT	GO:0016477~	cell migration	11	4.80	8.43E-04
<small>TNS3, PTK2, FLT1, PDGFR, PLXNA2, CSPG4, ITGA1, PRKG1, APBB2, GDNF, ACVR1</small>					
GOTERM_BP_FAT	GO:0042127~	regulation of cell proliferation	16	6.99	2.94E-03
<small>CAV1, PDGFR, PDGFA, INPPL1, ANXA1, IGF1, FOXO1, PMAHP1, TNS3, CDKN1A, NUPR1, CD80, IRF6, JUN, TGM2, IGFBP3</small>					
GOTERM_BP_FAT	GO:0007267~	cell-cell signaling	10	4.37	1.04E-02
<small>KLB3, PTK2, WNT10B, GABRB3, PDGFA, TNC, SV2B, AGRN, ATP1A2, GDNF</small>					