

Supplementary files

Supplementary Figure 1. Intersample variability in microarray after viral transduction

of KLFs. Intersample variability amongst the biological replicates was very low in each of the KLF-transduced RGC groups. Shown here are examples of the first two samples from each group analyzed.

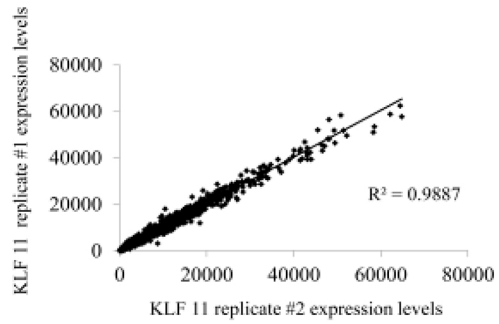
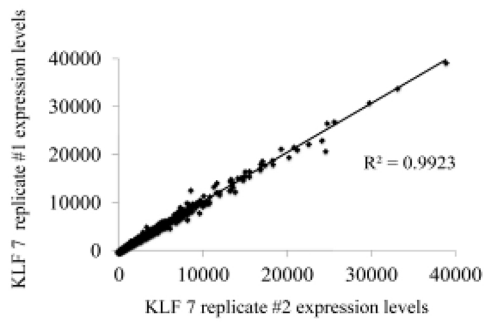
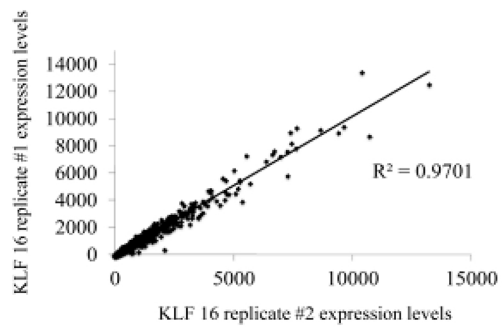
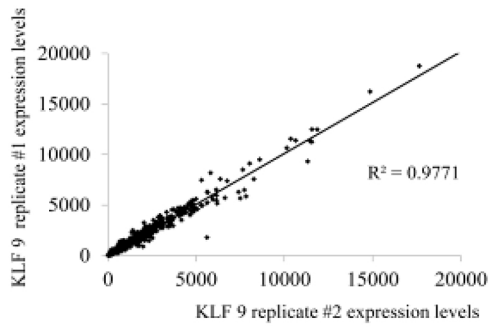
Supplementary Table 1. Regulation of KLFs by other KLF family members.

Fold change comparison between KLF family members and axon growth regulators KLF9 (repressor), KLF16 (repressor), KLF7 (promoter) and KLF11 (none).

Supplementary Table 2. Target candidate probes satisfying all of screening criteria.

Fold change comparison between candidate probes and KLF9 (repressor), KLF16 (repressor), KLF7 (promoter) and KLF11 (none).

Extended Data Figure 1



Extended Data Table 1. Regulation of KLFs by other KLF family members.

Probe ID	Gene Symbol	FC by KLF9	FC by KLF16	FC by KLF7	FC by KLF11	Effect on Axon Growth*	KLF Family*
1382033_at	Klf1	3.13	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1375248_at	Klf2	1.00	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1376569_at	Klf2	1.82	1.00	-7.36	1.00	Repressor	Acidic and Inhibitory domains
1386040_at	Klf2	1.00	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1386041_a_at	Klf2	1.00	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1394068_x_at	Klf2	1.00	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1387260_at	Klf4	1.77	1.00	1.00	1.00	Repressor	Acidic and Inhibitory domains
1375177_at	Klf13	1.00	1.00	1.00	1.00	Repressor	BTEB
1383013_at	Klf13	-21.44	-3.22	1.82	1.00	Repressor	BTEB
1374231_at	Klf16	-1.38	1.00	4.32	1.00	Repressor	BTEB
1370209_at	Klf9	-1.62	1.00	1.00	1.00	Repressor	BTEB
1387882_at	Klf9	1.00	1.00	1.00	1.00	Repressor	BTEB
1368249_at	Klf15	7.09	2.60	1.00	1.00	Repressor	grey group in Science paper*
1381395_at	Klf15	1.00	1.00	1.00	1.00	Repressor	grey group in Science paper*
1381396_s_at	Klf15	1.00	1.00	1.00	1.00	Repressor	grey group in Science paper*
1368363_at	Klf5	3.24	1.00	1.00	1.00	Repressor	grey group in Science paper*
1385961_at	Klf5	1.00	1.00	1.00	1.00	Repressor	grey group in Science paper*
1394039_at	Klf5	1.92	1.00	1.00	1.56	Repressor	grey group in Science paper*
1398159_at	Klf5	1.00	1.00	1.00	1.00	Repressor	grey group in Science paper*
1387060_at	Klf6	1.37	1.00	-1.69	1.00	Promoter	Acidic and Hydrophobic S-rich domain
1377618_at	Klf7	1.00	1.00	1.00	1.00	Promoter	Acidic and Hydrophobic S-rich domain
1380363_at	Klf7	1.00	1.00	4.08	1.00	Promoter	Acidic and Hydrophobic S-rich domain
1384497_at	Klf7	1.00	1.00	1.00	1.00	Promoter	Acidic and Hydrophobic S-rich domain
1391471_at	Klf7	1.00	1.00	1.00	1.00	Promoter	Acidic and Hydrophobic S-rich domain
1385545_at	Klf12	1.00	1.00	1.00	1.00	None	PVALS/T
1378332_at	Klf3	1.00	1.00	2.06	1.00	None	PVALS/T
1389479_at	Klf3	1.00	1.00	1.84	1.00	None	PVALS/T
1393150_at	Klf3	1.00	1.00	2.33	1.00	None	PVALS/T
1368650_at	Klf10	-1.61	1.00	4.10	-8.31	None	TIEG

FC, fold-change. *As described in Moore DL, et al., Science (2009)¹⁰

Extended Data Table 2. Target candidate probes satisfied all of screening criteria.

Probe ID	Gene Symbol	FC in KLF9	FC in KLF16	FC in KLF7	FC in KLF11	Corrected p-value
1381246_at	Rn.109718	9.4144	3.8510	-2.5461	1.0000	0.0126
1390119_at	Sfrp2	9.0695	3.7613	-2.7319	1.0000	0.0356
1374971_at	Rn.16576	7.5644	3.1264	-2.3583	1.0000	0.0457
1390219_at	Wdr19	6.5807	2.4275	-1.4894	1.0000	0.0001
1383541_at	Nagpa	6.1758	2.8520	-1.1003	1.0000	<0.0001
1377789_at	Rn.13199	6.0207	3.0021	-2.2092	1.0000	0.0121
1383380_at	Rpp38	5.5618	2.7613	-2.2113	1.0000	0.0169
1391125_at	Ap1s3	5.4617	2.6528	-1.9369	1.0000	0.0296
1374759_at	Galnt1	5.4034	3.1317	-2.1237	1.0000	0.0146
1383661_at	Rn.15645	4.8578	2.2618	-1.9907	1.0000	0.0406
1395518_at	Rn.34553	4.8344	2.1367	-2.9538	1.0000	0.0280
1388744_at	Mcm7	4.2993	3.0345	-1.9648	1.0000	0.0139
1389385_at	B9d1	4.2060	1.7928	-1.4715	1.0000	<0.0001
1394472_at	Rgl1	3.9394	2.3532	-2.0787	1.0000	0.0402
1368045_at	Slc31a1	3.9002	2.0903	-1.4042	1.0000	<0.0001
1389137_at	Cit	3.6013	2.5055	-2.7198	1.0000	0.0463
1389729_at	Rilpl2	3.4976	1.8876	-1.6979	1.0000	0.0331
1393743_at	Rn.34553	3.4666	2.0048	-3.9919	1.0000	0.0046
1369989_at	Pnpo	3.3757	2.4578	-1.4789	1.0000	<0.0001
1388534_at	Rn.95113	3.2356	1.9669	-1.4933	1.0000	<0.0001
1373324_at	Dusp14	3.2327	2.0832	-1.6994	1.0000	0.0120
1376989_at	Rn.14653	3.2270	2.3526	-2.2980	1.0000	0.0022
1381984_at	Rn.24648	3.2057	1.8007	-1.2260	1.0000	<0.0001
1387966_at	Asrgl1	3.1794	1.6783	-1.5482	1.0000	0.0215
1384025_at	Rn.7560	3.0945	2.4931	-1.4680	1.0000	<0.0001
1388699_at	Man2b1	3.0514	1.6837	-1.5840	1.0000	0.0221
1375932_at	Rn.163618	3.0438	1.5543	-2.2797	1.0000	0.0159

FC, fold-change.