

No.	shRNA Clone ID	Gene ID	Sytox % Plate A	Sytox % Plate B	Average Sytox %	t-test P-value
Control-HD			50.877	48.37	49.6235	1
Control-Healthy			26.841	24.534	25.6875	0.005026709
1	TRCN0000256296	RCAN1	26.559	30.944	28.7515	0.014327348
2	TRCN0000236208	RTCA	29.85	34.207	32.0285	0.019801152
3	TRCN0000006310	BRD2	38.232	26.578	32.405	0.101846397
4	TRCN0000004121	UBE2D4	34.607	33.743	34.175	0.007285374
5	TRCN0000003981	SRF	33.791	37.182	35.4865	0.021530228
6	TRCN0000057779	ITGA8	34.044	39.445	36.7445	0.049504935
7	TRCN0000072274	ACTL6A	38.658	35.864	37.261	0.022283133
8	TRCN0000065215	AP3S2	39.221	37.454	38.3375	0.017967901
9	TRCN0000231932	AK3	42.686	34.202	38.444	0.12732797
10	TRCN0000029548	ATP6V1B2	40.313	38.46	39.3865	0.022408318
11	TRCN0000001051	BCL2L11	44.83	33.944	39.387	0.208304657
12	TRCN0000113925	ARPM1	45.89	33.01	39.45	0.261138777
13	TRCN0000003053	STYXL1	42.167	37.745	39.956	0.062688518
14	TRCN0000029404	YWHAZ	43.31	37.308	40.309	0.103356565
15	TRCN0000218823	KLF15	43.54	38.426	40.983	0.093618034
16	TRCN0000036119	GSTZ1	37.137	44.855	40.996	0.167347807
17	TRCN0000083775	GSTP1	41.246	40.761	41.0035	0.021241237
18	TRCN0000046368	PYCR2	40.953	42.925	41.939	0.040474851
19	TRCN0000306923	DGCR14	42.515	41.376	41.9455	0.030682796
20	TRCN0000048519	TTL4	41.265	42.975	42.12	0.038542762
21	TRCN0000008811	GNG7	46.285	38.679	42.482	0.216444942
22	TRCN0000014873	RFX3	42.784	42.302	42.543	0.030996927
23	TRCN0000013666	RUNX1T1	44.286	41.129	42.7075	0.075454813
24	TRCN0000039984	REL	43.548	42.86	43.204	0.038639053
25	TRCN0000137689	FAN1	41.376	45.295	43.3355	0.113933244
26	TRCN0000001554	MAP3K7	47.221	40.219	43.72	0.253306577
27	TRCN0000106710	HIST1H2BK	44.039	43.591	43.815	0.044850294
28	TRCN0000038569	SNUPN	43.936	44.074	44.005	0.046472772
29	TRCN0000005142	SPCS2	46.131	41.991	44.061	0.148290459
30	TRCN0000299680	CINP	43.491	45.256	44.3735	0.07570762
31	TRCN0000033561	BCL10	45.14	43.991	44.5655	0.066941939
32	TRCN0000058107	PSMD1	45.048	44.538	44.793	0.063517199
33	TRCN0000064508	FMO5	40.869	49.139	45.004	0.396948326
34	TRCN0000043044	ATP6V1H	46.826	43.967	45.3965	0.156235218
35	TRCN0000057990	CXCL16	45.088	45.96	45.524	0.090763259
36	TRCN0000153028	DYNLRB1	49.174	42.155	45.6645	0.39938845
37	TRCN0000050684	ACER2	47.118	44.222	45.67	0.175029979
38	TRCN0000040079	RPS6	49.096	42.34	45.718	0.391672738
39	TRCN0000162130	GSTT2	41.958	49.646	45.802	0.444341945
40	TRCN0000276004	SRP72	39.392	52.673	46.0325	0.648262688
41	TRCN0000002857	PTPRF	43.984	48.597	46.2905	0.331946042
42	TRCN0000065138	VPS26A	50.392	42.744	46.568	0.526972465
43	TRCN0000047610	RASL10B	47.114	46.028	46.571	0.155011555

44	TRCN0000019384	SMAD7	50.587	42.634	46.6105	0.544975122
45	TRCN0000298602	FEN1	45.93	47.435	46.6825	0.181934935
46	TRCN0000039942	PRKAR1A	40.629	53.43	47.0295	0.7292685
47	TRCN0000000494	CDK9	52.041	42.053	47.047	0.666431472
48	TRCN0000050350	SUPV3L1	52.282	42.147	47.2145	0.689786685
49	TRCN0000155446	INO80B	44.366	50.146	47.256	0.530721237
50	TRCN0000002493	PPP2R2A	40.594	54.007	47.3005	0.765929748
51	TRCN0000134790	FAM98B	53.331	41.286	47.3085	0.742845648
52	TRCN0000289803	ASNSD1	48.09	46.583	47.3365	0.258327747
53	TRCN0000050614	CNOT6	52.348	42.336	47.342	0.701625329
54	TRCN0000218714	STX5	47.153	47.656	47.4045	0.224760148
55	TRCN0000052016	DUSP16	51	44.122	47.561	0.629861684
56	TRCN0000013713	ATF2	49.264	45.954	47.609	0.434244926
57	TRCN0000293218	SNAPIN	44.362	50.869	47.6155	0.622840881
58	TRCN0000059900	XPOT	48.727	46.673	47.7	0.357110752
59	TRCN0000273401	SFRS7	47.605	48.027	47.816	0.290965051
60	TRCN0000040171	PPP2R2B	42.639	53.039	47.839	0.770399386
61	TRCN0000057054	ZFYVE16	49.311	46.46	47.8855	0.456537062
62	TRCN0000301019	FANCL	47.709	48.18	47.9445	0.318654432
63	TRCN0000167342	ZCRB1	48.792	47.36	48.076	0.395922124
64	TRCN0000289685	TIPRL	49.662	47.182	48.422	0.565917995
65	TRCN0000036472	GNAI1	49.882	47.044	48.463	0.602335386
66	TRCN0000029208	PHB	45.181	51.859	48.52	0.786273726
67	TRCN0000072471	AIMP2	48.1	49.14	48.62	0.536643388
68	TRCN0000350392	TSKU	48.049	49.235	48.642	0.55243566
69	TRCN0000059523	ABCA7	54.928	42.505	48.7165	0.899303392
70	TRCN0000010207	VRK2	47.305	50.267	48.786	0.708077428
71	TRCN0000047710	RHOA	55.238	42.606	48.922	0.923193689
72	TRCN0000234533	CTNNA1	49.804	48.243	49.0235	0.723853502
73	TRCN0000020601	GTF2A2	47.188	50.861	49.0245	0.81287453
74	TRCN0000057609	CD81	50.395	47.954	49.1745	0.821444932
75	TRCN0000011375	LPAR2	51.97	46.603	49.2865	0.919803806
76	TRCN0000049908	CTDSP1	46.811	51.81	49.3105	0.921095069
77	TRCN0000050500	DDX1	49.444	49.274	49.359	0.852758381
78	TRCN0000055478	EGF	53.197	45.595	49.396	0.959839414
79	TRCN0000037806	PRKAR2A	49.168	49.744	49.456	0.908299589
80	TRCN0000016285	MAFA	52.943	46.216	49.5795	0.99133259
81	TRCN0000245286	AHR	48.626	50.555	49.5905	0.985248049
82	TRCN0000060433	TSPO	49.519	49.807	49.663	0.977868828
83	TRCN0000254745	RNF169	52.752	46.701	49.7265	0.977765981
84	TRCN0000165277	INO80E	44.318	55.211	49.7645	0.982163488
85	TRCN0000119048	SBDS	48.49	51.679	50.0845	0.841316372
86	TRCN0000001862	TAB1	45.999	54.335	50.167	0.91204346
87	TRCN0000084058	MSH3	49.289	51.41	50.3495	0.701588642
88	TRCN0000123212	AHNAK	52.633	48.069	50.351	0.806167597
89	TRCN0000072799	TMED9	53.966	46.927	50.4465	0.846090542
90	TRCN0000003411	UBR5	45.697	55.25	50.4735	0.879180072
91	TRCN0000006438	TRIM27	51.321	49.689	50.505	0.615328704

92	TRCN0000160952	EDC3	51.465	49.631	50.548	0.612054359
93	TRCN0000046353	QDPR	52.925	48.175	50.55	0.762997561
94	TRCN0000274180	TFDP1	48.676	52.628	50.652	0.703214939
95	TRCN0000243383	SRD5A3	51.27	50.169	50.7195	0.507376722
96	TRCN0000141543	TNKS1BP1	52.357	49.356	50.8565	0.592734561
97	TRCN0000029148	TMED10	52.7	49.036	50.868	0.631471564
98	TRCN0000001309	SFRS12	52.029	50.046	51.0375	0.469636395
99	TRCN0000008024	MYD88	54.348	47.811	51.0795	0.717845591
100	TRCN0000333044	TOPBP1	49.959	52.264	51.1115	0.474345417
101	TRCN0000059064	KISS1	57.004	45.285	51.1445	0.823334636
102	TRCN0000152188	BANF1	53.968	48.372	51.17	0.664056645
103	TRCN0000160077	EXOC4	56.831	45.73	51.2805	0.798322768
104	TRCN0000002088	ITCH	57.619	45.077	51.348	0.812695157
105	TRCN0000113881	VILL	51.196	51.585	51.3905	0.298260882
106	TRCN0000296342	LRIG1	47.706	55.268	51.487	0.685938716
107	TRCN0000042923	SLC12A1	57.792	45.184	51.488	0.799062254
108	TRCN0000338481	TWF1	52.393	51.061	51.727	0.276560135
109	TRCN0000005226	ACER3	54.957	48.823	51.89	0.56455733
110	TRCN0000290470	TNFRSF21	54.317	49.464	51.8905	0.493812004
111	TRCN0000275836	GCDH	55.812	48.009	51.9105	0.632921365
112	TRCN0000083980	COL5A2	52.903	51.077	51.99	0.266531508
113	TRCN0000122317	SNRNP48	54.316	49.838	52.077	0.439898991
114	TRCN0000046564	CYBRD1	49.495	54.688	52.0915	0.482192886
115	TRCN0000369031	FBXL3	53.958	50.383	52.1705	0.36364851
116	TRCN0000019427	NR4A1	49.626	54.891	52.2585	0.461525202
117	TRCN0000057338	HLA-B	58.815	45.726	52.2705	0.729574085
118	TRCN0000083932	EIF2B2	51.523	53.021	52.272	0.211388397
119	TRCN0000289384	C1GALT1	53.496	51.159	52.3275	0.255323146
120	TRCN0000006074	DGUOK	54.237	50.469	52.353	0.351067597
121	TRCN0000007177	DUSP7	57.495	47.258	52.3765	0.653483411
122	TRCN0000019270	SSRP1	53.281	51.487	52.384	0.215187354
123	TRCN0000300438	KIF2A	50.265	54.56	52.4125	0.378602298
124	TRCN0000257126	SF1	54.039	50.819	52.429	0.30291531
125	TRCN0000150604	SCAMP2	56.599	48.91	52.7545	0.519760682
126	TRCN0000007197	UBA7	48.031	58.523	53.277	0.568023536
127	TRCN0000055850	EFHA1	49.369	57.223	53.296	0.466983034
128	TRCN0000057486	CD2BP2	54.869	51.739	53.304	0.207845077
129	TRCN0000233115	HMGCR	54.719	51.924	53.3215	0.187669371
130	TRCN0000134133	C18orf55	59.029	47.641	53.335	0.589534849
131	TRCN0000275310	NR1H2	51.958	54.847	53.4025	0.186823267
132	TRCN0000118815	DTL	56.333	50.729	53.531	0.330984903
133	TRCN0000373019	MSTN	59.037	48.077	53.557	0.556535645
134	TRCN0000365209	MPI	50.929	56.293	53.611	0.310332968
135	TRCN0000318424	DNM1L	54.739	52.529	53.634	0.138446512
136	TRCN0000062514	CCT6A	59.611	47.664	53.6375	0.578337441
137	TRCN0000037960	PFKFB2	50.43	57.005	53.7175	0.364630876
138	TRCN0000148073	SASS6	57.65	49.859	53.7545	0.419018521
139	TRCN0000231986	DDX20	52.881	54.652	53.7665	0.114193268

140	TRCN0000055435	CDK6	53.134	54.419	53.7765	0.098356566
141	TRCN0000004058	USP7	54.337	53.231	53.784	0.093482681
142	TRCN0000276262	SYBU	57.371	50.272	53.8215	0.380793825
143	TRCN0000312701	CDH2	54.226	53.418	53.822	0.085906951
144	TRCN0000350299	UBE2D2	55.168	52.605	53.8865	0.140499353
145	TRCN0000003884	PSMA4	53.889	54.1	53.9945	0.073774903
146	TRCN0000158015	ARID3B	54.349	53.678	54.0135	0.077367487
147	TRCN0000194922	MAP3K4	51.644	56.416	54.03	0.24368796
148	TRCN0000060168	SCG5	51.288	56.827	54.0575	0.282061138
149	TRCN0000016819	BPTF	58.186	50.088	54.137	0.398483361
150	TRCN0000035199	SULT1A2	57.384	51.019	54.2015	0.312625173
151	TRCN0000139612	TSNARE1	57.922	50.646	54.284	0.349518832
152	TRCN0000072607	CENPJ	53.255	55.489	54.372	0.105586128
153	TRCN0000229628	NDUFS3	55.392	53.459	54.4255	0.093639108
154	TRCN0000232899	SLC30A6	50.899	57.964	54.4315	0.328169824
155	TRCN0000152655	SNCAIP	57.439	51.598	54.5185	0.263407326
156	TRCN0000382254	STX18	58.59	50.597	54.5935	0.357236248
157	TRCN0000022079	ERCC3	59.941	49.542	54.7415	0.439595638
158	TRCN0000025837	DBT	55.118	54.697	54.9075	0.053280704
159	TRCN0000047928	RAN	57.802	52.236	55.019	0.219142587
160	TRCN0000286980	DDX17	57.293	52.797	55.045	0.169767582
161	TRCN0000196400	EIF2AK2	49.646	60.612	55.129	0.43087705
162	TRCN0000380612	STX2	57.261	53.133	55.197	0.147334399
163	TRCN0000107186	GADD45B	56.179	54.338	55.2585	0.068440925
164	TRCN0000010766	HIPK2	59.186	51.331	55.2585	0.305042274
165	TRCN0000046673	IMMP2L	60.55	50.043	55.2965	0.403746463
166	TRCN0000008759	HSPA1B	58.749	51.899	55.324	0.258482953
167	TRCN0000001111	PTBP2	57.035	53.754	55.3945	0.107701798
168	TRCN0000246164	PAX6	55.447	55.421	55.434	0.043528051
169	TRCN0000137596	STAG3	58.512	52.583	55.5475	0.207045875
170	TRCN0000037413	SMG1	62.237	48.967	55.602	0.469350651
171	TRCN0000048157	SOS2	53.075	58.312	55.6935	0.17167744
172	TRCN0000072475	SNRPB	61.935	50.356	56.1455	0.385688387
173	TRCN0000002538	ENPP1	61.345	50.999	56.172	0.343655887
174	TRCN0000003368	UBE3A	62.642	50	56.321	0.40780876
175	TRCN0000179155	RQCD1	57.271	55.558	56.4145	0.04651806
176	TRCN0000033434	SIP1	59.403	53.517	56.46	0.166049487
177	TRCN0000142193	OBFC2B	57.511	55.418	56.4645	0.052526972
178	TRCN0000147202	SEC63	59.627	53.466	56.5465	0.172835136
179	TRCN0000137724	GAS8	59.631	53.67	56.6505	0.161835394
180	TRCN0000027285	ALDH4A1	53.738	59.58	56.659	0.157321001
181	TRCN0000234318	SMC3	56.401	57.208	56.8045	0.03202131
182	TRCN0000000804	CSK	60.578	53.111	56.8445	0.20817137
183	TRCN0000274157	STAT6	55.17	58.533	56.8515	0.074863265
184	TRCN0000006150	MAPK3	54.455	59.349	56.902	0.117966225
185	TRCN0000000929	NEK9	54.124	59.715	56.9195	0.14018073
186	TRCN0000139639	VDAC3	59.743	54.39	57.0665	0.128074535
187	TRCN0000355889	CCRN4L	60.495	53.761	57.128	0.17194001

188	TRCN0000127680	TLL6	61.831	52.523	57.177	0.257593567
189	TRCN0000315236	PSPH	54.97	59.391	57.1805	0.096916633
190	TRCN0000007558	NFE2L2	58.099	56.409	57.254	0.037080233
191	TRCN0000017379	GTF2A1L	61.959	52.672	57.3155	0.250882723
192	TRCN0000133817	LRR6	55.388	59.256	57.322	0.079130344
193	TRCN0000082856	DDB1	56.981	57.664	57.3225	0.027314371
194	TRCN0000078378	RCL1	57.989	56.904	57.4465	0.029156851
195	TRCN0000074496	WDR83	56.104	58.829	57.4665	0.051459625
196	TRCN0000002874	PTPRK	58.51	56.539	57.5245	0.038397446
197	TRCN0000073569	HSPG2	59.126	56.023	57.5745	0.057552181
198	TRCN0000074506	TFIP11	58.035	57.176	57.6055	0.026468004
199	TRCN0000002124	PRKD1	62.687	52.586	57.6365	0.263484256
200	TRCN0000164329	GET4	61.415	53.914	57.6645	0.179031083
201	TRCN0000082981	HPS4	58.236	57.096	57.666	0.028086072
202	TRCN0000279822	PSMB6	55.945	59.508	57.7265	0.065271812
203	TRCN0000029630	ICAM1	63.375	52.35	57.8625	0.282340374
204	TRCN0000299843	DYNC1LI1	59.543	56.395	57.969	0.053508854
205	TRCN0000034579	GCAT	59.253	56.897	58.075	0.03901727
206	TRCN0000123280	FAR2	63.477	53.267	58.372	0.237965684
207	TRCN0000151688	EPB49	55.75	61.002	58.376	0.095034131
208	TRCN0000236085	HNRNPH1	58.83	57.923	58.3765	0.022416011
209	TRCN0000072278	PNN	53.71	63.531	58.6205	0.217843044
210	TRCN0000161422	XPO7	55.289	62.017	58.653	0.128336435
211	TRCN0000312673	DPM2	63.353	54.262	58.8075	0.190802521
212	TRCN0000235134	SMAD6	53.965	63.984	58.9745	0.211871602
213	TRCN0000133815	GBAS	57.245	60.755	59	0.049044956
214	TRCN0000151080	NUDT16	63.153	55.172	59.1625	0.150141766
215	TRCN0000061134	CHRNA5	58.539	59.794	59.1665	0.020903118
216	TRCN0000051323	GLS2	54.236	64.181	59.2085	0.202540017
217	TRCN0000074743	LSM7	61.52	57.223	59.3715	0.059373619
218	TRCN0000288921	TRIOBP	64.783	54.117	59.45	0.214719875
219	TRCN0000005897	TRIM5	62.602	56.361	59.4815	0.099332439
220	TRCN0000015308	SIX3	58.829	60.577	59.703	0.022221231
221	TRCN0000119110	LAMC1	59.409	60.015	59.712	0.015950311
222	TRCN0000010040	MAPK1	54.359	65.312	59.8355	0.210743681
223	TRCN0000003343	VEGFA	57.278	62.5	59.889	0.071205231
224	TRCN0000376533	FRG1	56.659	63.417	60.038	0.1017964
225	TRCN0000078548	PMS2	61.238	58.966	60.102	0.025086985
226	TRCN0000035502	ST3GAL6	62.021	58.739	60.38	0.03493464
227	TRCN0000290697	ACAT1	61.594	59.457	60.5255	0.022073069
228	TRCN0000006203	PHKG1	60.778	61.589	61.1835	0.01274075
229	TRCN0000256946	TIAM1	63.195	59.56	61.3775	0.033519046
230	TRCN0000052766	PPP4R1	61.82	61.193	61.5065	0.011617849
231	TRCN0000235494	PMS1	60.056	63.19	61.623	0.026844877
232	TRCN0000116484	TMPO	59.087	64.275	61.681	0.052625093
233	TRCN0000155822	PAM16	63.718	59.91	61.814	0.033234255
234	TRCN0000051494	PCSK1	66.473	57.501	61.987	0.117448889
235	TRCN0000116593	FRRS1	68.611	55.621	62.116	0.199552438

236	TRCN0000419423	KLRG1	61.447	63.351	62.399	0.014842793
237	TRCN0000046559	RRM2B	66.245	59.885	63.065	0.059001888
238	TRCN0000029504	CCT5	64.62	62.041	63.3305	0.016781261
239	TRCN0000026457	GAPDHS	63.771	64.153	63.962	0.007729495
240	TRCN0000236265	POLM	68.194	60.284	64.239	0.071988564
241	TRCN0000128799	STRA6	69.304	59.494	64.399	0.100084786
242	TRCN0000064633	CYP1A2	62.85	66.764	64.807	0.022635783
243	TRCN0000013240	LMO4	61.505	71.858	66.6815	0.085214233
244	TRCN0000037745	NME3	71.532	62.821	67.1765	0.060666581
245	TRCN0000011092	NXF1	68.902	72.497	70.6995	0.010638885
246	TRCN0000372265	FGL2	85.437	86.443	85.94	0.001380326