

Supplementary File 1:

Supplementary Table S1: Mass Spectrometry Analysis of TDP-43-containing Protein Complex

Band	Identified proteins	Peptides
211 kDa	PLEXIN A2	SGIPYLDYR DSPSNKLLYAK LLYAKDIPSYK LTGNLTIQVAHK
102 kDa	KIF18A	HILVFDPK
77 kDa	FMRP2	LQIDEQLR GSNGAFYK NEEATKHLETSK
71 kDa	hnRNP R	LKDYAFVHFEDR VTEGLVDVILYHQDDK YGGPPPDSVYSGVQPGIGTEVFGK TKENILEEFSK STAYEDYYYHPPPR LFVGSIPK LMMDPLSGQNR AGPIWDLR NLATTVTTEEILEK SFSEFGK ALLER DLYEDELVPLFEK
64 kDa	hnRNP L	SKPGAAMVEMADGYAVDR TPASPVVHIR NDQDTWDYTNPNLSGQGDGPNPNKR AITHLNNFMFGQK NPNGPYPYTLK SSSGLLEWESK NPNGPYPYTLK
63 kDa	hnRNP Q	TKEQILEEFSK LKDYAFIHFDER GVEAGPDLLQ

		VTEGLTDVILYHQPDDKKK
		EFNEDGALAVLQQFK
		DSDLSHVQNK
		AGPIWDLR
		LYNNHEIR
		KYGGPPPDSVYSGQQPSVGTEIFVGK
		YGGPPPDSVYSGQQPSVGTEIFVGK
		DLFEDELVPLFEK
61 kDa	FMRP1	LQIDEQLR
		GSNGAFYK
		EDGMVPFVFGTK
55 kDa	STAU1	TKPIVKPQTSPEYGQGINPISR
		ILQNEPLPER
		ELLYGGTSPTAETILK
		ATVTAMIAR
		VSVGFEVGELEGK
		NLPVNFVAR
		KEKEPEYLLTER
		LLSELDQQSTEMPR
		KEKEPEYLLTER
		EKEPEYLLTER
		VQGFQVEYKDFPK
		EPEYLLTER
		VQGFQVEYK
		EFVMQVK
48 kDa	hnRNP K	LLIHQSLAGGIIGVK
		RPAEDMEEEQAFKR
		SRNTDEMVELR
		VVLIGGKPR
		DLAGSIIGK
		IDEPLEGSEDR
		HESGASIKIDEPLEGSEDR
		NLPLPPPPPR
		GGDLMAYDRR
		NTDEMVELR
		TDYNASVSPDSSGPER
		IILDLISESPIK

37 kDa	hnRNP A2/B1	KLFVGGIK LFVGGIKEDTEEHHLR GGGGNFGPGPGSNFR GGNFGFGDSR LFVGGIK TLETVPLER
31kDa	hnRNP A0	LFIGGLNVQTSEGLR GFGFVYFQNHDAADK GDVAEGDLIEHFSQFGTVEK LFVGGGLK KLFVGGGLK
30kDa	hnRNP A1	SSGPYGGGGQYFAKPR IEVIEIMTDR LFIGGLSFETTDESLR KIFVGGIK GFAFVTFDDHDSVDK KFIGGLSFETTDESLR IFVGGIKEDTEEHHLR IFVGGIK
15kDa	FUS	LKGEATVSFDDPPSAK AAIDWFDGKEFSGNPIK GEATVSFDDPPSAK TGQPMINLYTDR VSFATR

Supplementary Table S2 : mRNA Microarray Results of TDP-43 (cut-off = 2 fold)

ProbeSetID	siTDP-43	siCtrl	Ratio	Representative Public ID	UniGene ID	Gene Symbol
201289_at	2923.16	1080.48	2.7054	NM_001554	Hs.8867	CYR61
201852_x_at	527.59	191.03	2.7618	AI813758	Hs.443625	COL3A1
202822_at	910.43	394.61	2.3072	BF221852	Hs.444362	LPP
203231_s_at	266.18	130.16	2.045	AW235612	Hs.434961	ATXN1
203232_s_at	550.13	241.65	2.2766	NM_000332	Hs.434961	ATXN1
203603_s_at	120.89	60.21	2.0078	NM_014795	Hs.34871	ZEB2
203789_s_at	720.59	334.69	2.153	NM_006379	Hs.269109	SEMA3C
204222_s_at	244.62	104.94	2.331	NM_006851	Hs.205558	GLIPR1
204604_at	526.68	245.9	2.1418	NM_012395	Hs.430742	PFTK1
204722_at	202.35	99.59	2.0318	AW007335	Hs.4865	SCN3B
205547_s_at	192.79	70.65	2.7288	NM_003186	Hs.410977	TAGLN
205807_s_at	1099.37	510.1	2.1552	NM_020127	Hs.489922	TUFT1
206318_at	49.33	20.64	2.39	NM_020398	Hs.121084	SPINLW1
206323_x_at	4857.04	2381.22	2.0397	NM_002547	Hs.128824	OPHN1
206515_at	23.1	4.86	4.7531	NM_000896	Hs.106242	CYP4F3
206977_at	59.25	29.14	2.0333	NM_000315	Hs.37045	PTH
207181_s_at	1439.94	507.32	2.8383	NM_001227	Hs.9216	CASP7
209344_at	1119.97	282.9	3.9589	BC002827	Hs.631618	TPM4
209469_at	252.06	122.71	2.0541	BF939489	Hs.75819	GPM6A
209470_s_at	157.58	69.45	2.269	D49958	Hs.75819	GPM6A
209676_at	45.59	17.57	2.5948	J03225	Hs.516578	TFPI
209755_at	156.63	62.28	2.5149	AF288395	Hs.497123	NMNAT2
209818_s_at	788.09	361.69	2.1789	AF241831	Hs.494567	HABP4
209883_at	174.02	85.94	2.0249	AF288389	Hs.387995	GLT25D2
210764_s_at	1823.78	645.44	2.8256	AF003114	Hs.8867	CYR61
211161_s_at	505.6	247.8	2.0404	AF130082	Hs.443625	COL3A1
211347_at	199.47	75.36	2.6469	AF064105	Hs.40582	CDC14B
211502_s_at	103.76	50.58	2.0514	AF119833	Hs.430742	PFTK1
211959_at	707.7	321.13	2.2038	AW007532	Hs.607212	IGFBP5
212353_at	58.46	25.37	2.3043	AI479175	Hs.409602	SULF1
212481_s_at	2068.52	775.8	2.6663	AI214061	Hs.631618	TPM4
212956_at	913.4	433.25	2.1083	AI348094	Hs.480819	TBC1D9
213258_at	417.98	166.48	2.5107	BF511231	Hs.516578	TFPI
214743_at	1233.84	606.48	2.0344	BE046521	Hs.654389	CUX1
215076_s_at	910.64	316.52	2.877	AU144167	Hs.443625	COL3A1

216153_x_at	3151.13	1426.3	2.2093	AK022897	Hs.388918	RECK
217481_x_at	6.77	1	6.77	AL110201	Hs.672782	---
220195_at	362.79	167.9	2.1608	NM_018328	Hs.458312	MBD5
220232_at	1112.17	227.49	4.8889	NM_024906	Hs.379191	SCD5
220874_at	51.98	21.57	2.4098	NM_018575	---	---
221211_s_at	20.7	6.85	3.0219	NM_020152	Hs.222802	C21orf7
224159_x_at	3926.53	1952.09	2.0114	AF220023	Hs.50749	TRIM4
224675_at	3197.7	1489.43	2.1469	AK026606	Hs.578450	MESDC2
224679_at	943.59	467.49	2.0184	BE963495	Hs.578450	MESDC2
224811_at	873.84	384.51	2.2726	BF112093	Hs.592801	---
225066_at	230.51	114.32	2.0164	AI459157	---	---
225935_at	974.12	429.8	2.2664	AI350995	Hs.191482	---
225937_at	453.32	203.32	2.2296	BF002121	Hs.191482	---
226612_at	730.24	319.22	2.2876	H17038	Hs.126856	FLJ25076
226751_at	564.07	224.64	2.511	AW193693	Hs.212885	CNRIP1
227069_at	385.36	187.77	2.0523	AA806989	Hs.191482	---
228006_at	539.75	247.81	2.1781	BG403361	Hs.644684	---
228369_at	1091.05	412.78	2.6432	AI262560	Hs.414099	CNPY3
228635_at	228.38	96.66	2.3627	AI640307	Hs.192859	PCDH10
228640_at	507.26	152.17	3.3335	BE644809	Hs.479439	PCDH7
228731_at	79.86	36.69	2.1766	AW236803	Hs.24321	---
228854_at	141.69	51.38	2.7577	AI492388	Hs.586747	---
229435_at	87.56	41.8	2.0947	AW025602	Hs.162125	GLIS3
229912_at	304.8	148.17	2.0571	AL042166	Hs.653013	SDK1
230225_x_at	7.59	1	7.59	AI255029	Hs.666896	---
230444_at	204.09	93.22	2.1893	AI697756	Hs.661515	---
231798_at	250.4	115.04	2.1766	AL575177	Hs.248201	NOG
232298_at	137.54	66.27	2.0754	AK026494	---	hCG_1806964
233087_at	33.94	14.54	2.3343	AL133602	Hs.657225	FBXL17
233919_s_at	260.18	92.22	2.8213	BF213501	Hs.494567	HABP4
234675_x_at	3795.92	1011.86	3.7514	AK027219	Hs.532596	---
234805_at	76.92	29.64	2.5951	AF040257	Hs.666808	---
235016_at	192.63	91.48	2.1057	AL118571	Hs.499833	REEP3
236335_at	75.92	29.18	2.6018	AW298375	Hs.24321	---
237939_at	74.14	33.81	2.1928	BE218107	Hs.654492	EPHA5
238447_at	179.08	83.43	2.1465	AA428240	Hs.696468	RBMS3
238701_x_at	4016.1	1964.31	2.0445	BE176566	Hs.125166	C11orf92
240432_x_at	112.37	55.97	2.0077	AI333006	Hs.603896	---
241789_at	67.92	26.89	2.5258	AW338699	Hs.594906	---
241879_at	467.67	192.77	2.4261	AW511222	Hs.557980	---

242329_at	674.66	305.52	2.2082	AW071804	---	LOC401317
242342_at	110.52	53.9	2.0505	BE645219	Hs.572062	---
242715_at	194.27	62.13	3.1268	AA331548	Hs.444181	---
242923_at	712.12	345.45	2.0614	AW027457	Hs.30323	ZNF678
243805_at	372.96	141.3	2.6395	BG035826	Hs.34333	CCBE1
244441_at	157.4	49.63	3.1715	AI128170	Hs.667217	---
244829_at	126.17	55.67	2.2664	N44676	Hs.173337	C6orf218
1552870_s_at	19.2	7.35	2.6122	NM_144696	Hs.658505	C1orf125
1554816_at	29.76	11.03	2.6981	BC010680	Hs.601562	ASTN2
1555777_at	20.35	8.85	2.2994	AY140646	Hs.136348	POSTN
1557754_at	243.28	115.83	2.1003	BC028186	Hs.385650	LOC401068
1558048_x_at	4745.63	101.4	46.8011	BG389789	---	---
1561213_at	42.8	14.74	2.9037	BC041341	Hs.436589	---
1561676_at	44.85	14.1	3.1809	AK056491	Hs.670840	---
1567107_s_at	646.21	221.76	2.914	AF362887	Hs.631618	TPM4
1562527_at	27.1	7.99	3.3917	AF519622	Hs.710809	LOC283027
1562755_at	44.15	21.32	2.0708	BC043419	Hs.566208	---
1565838_at	32.37	13.37	2.4211	AI806319	Hs.667028	---
1568866_at	11.69	4.8	2.4354	R83290	Hs.684454	---
200020_at	1308.02	4243.46	0.3082	NM_007375	Hs.300624	TARDBP
200632_s_at	1446.41	3555.91	0.4068	NM_006096	Hs.372914	NDRG1
200891_s_at	1660.97	3413.29	0.4866	NM_003144	Hs.114033	SSR1
201037_at	1734.03	3517.7	0.4929	NM_002627	Hs.26010	PFKP
201422_at	763.11	1595.06	0.4784	NM_006332	Hs.14623	IFI30
201468_s_at	168.8	347.78	0.4854	NM_000903	Hs.406515	NQO1
202856_s_at	179.86	387.09	0.4646	NM_004207	Hs.500761	SLC16A3
202857_at	1302.67	3628.35	0.359	NM_014255	Hs.8752	CNPY2
203021_at	460.93	1159.55	0.3975	NM_003064	Hs.517070	SLPI
203427_at	444.58	917.69	0.4845	NM_014034	Hs.292316	ASF1A
203465_at	789.46	1647.08	0.4793	NM_014763	Hs.44024	MRPL19
203665_at	147.81	323.45	0.457	NM_002133	Hs.517581	HMOX1
203851_at	135.74	326.51	0.4157	NM_002178	Hs.274313	IGFBP6
204351_at	140.61	306.92	0.4581	NM_005980	Hs.2962	S100P
204501_at	728.23	1582.26	0.4602	NM_002514	Hs.235935	NOV
205625_s_at	63.34	250.57	0.2528	AW014927	Hs.65425	CALB1
205626_s_at	47.45	171.09	0.2773	NM_004929	Hs.65425	CALB1
205763_s_at	316.94	641.81	0.4938	NM_006773	Hs.363492	DDX18
205899_at	239.63	792.99	0.3022	NM_003914	Hs.417050	CCNA1
206091_at	64.83	180.36	0.3594	NM_002381	Hs.656199	MATN3
206836_at	561.38	1256.3	0.4469	NM_001044	Hs.406	SLC6A3

208896_at	773.14	1558.19	0.4962	X98743	Hs.363492	DDX18
208958_at	31.64	67.56	0.4683	AI827677	Hs.154023	ERP44
209125_at	12.78	95.44	0.1339	J00269	Hs.700779	KRT6A
209426_s_at	177.5	372.18	0.4769	AF047020	Hs.171929	AMACR
209653_at	97.25	223.76	0.4346	U93240	Hs.715552	KPNA4
209733_at	130.52	308.32	0.4233	AL034399	Hs.12256	MID2
209921_at	136.85	285.52	0.4793	AB040875	Hs.390594	SLC7A11
210102_at	47.74	114.52	0.4169	BC001234	Hs.152944	VWA5A
210317_s_at	292.07	700.17	0.4171	U28936	Hs.513851	YWHAE
210431_at	517.23	1521.85	0.3399	J04948	Hs.333509	ALPPL2
210432_s_at	36.93	74.93	0.4929	AF225986	Hs.435274	SCN3A
211143_x_at	230.59	505.32	0.4563	D49728	Hs.524430	NR4A1
211775_x_at	7.59	16.39	0.4631	BC006134	Hs.303653	MGC13053
211998_at	439.07	1047.65	0.4191	AW138159	Hs.180877	H3F3B
212690_at	315.68	744.92	0.4238	AB018268	Hs.434966	DDHD2
212991_at	105.06	228.4	0.46	AL137520	Hs.216653	FBXO9
213119_at	470.19	965.78	0.4869	AW058600	Hs.269004	SLC36A1
213123_at	463.53	1118.18	0.4145	BE222709	Hs.432818	MFAP3
213326_at	371.92	953.54	0.39	AU150319	Hs.20021	VAMP1
213567_at	162.2	336.49	0.482	BF431965	Hs.467866	---
214209_s_at	86.18	176.33	0.4887	BE504895	Hs.511951	ABCB9
215343_at	21.33	53.56	0.3982	AF070587	Hs.525536	CCDC88C
215555_at	17.71	38.2	0.4636	AU158442	Hs.671113	---
215898_at	26.92	53.99	0.4986	AK021879	Hs.709609	TTL5
216069_at	23.34	50.91	0.4585	AL050065	Hs.661229	---
216737_at	2.21	10.7	0.2065	AK024525	Hs.589082	---
217194_at	3.31	9.3	0.3559	AB007970	Hs.715627	RASAL2
218163_at	1400.43	3688.72	0.3797	NM_014060	Hs.102696	MCTS1
218196_at	248.62	542.04	0.4587	NM_014028	Hs.226780	OSTM1
218536_at	368.36	1108.81	0.3322	AF052167	Hs.719256	MRS2
218538_s_at	335.45	818.04	0.4101	NM_020662	Hs.719256	MRS2
219529_at	65.35	356	0.1836	NM_004669	Hs.64746	CLIC3
219537_x_at	253.49	514.94	0.4923	NM_016941	Hs.127792	DLL3
220649_at	2.48	14.87	0.1668	NM_024856	Hs.648616	AGBL3
221264_s_at	408.66	1386.76	0.2947	NM_031214	Hs.300624	TARDBP
221711_s_at	597.2	1646.24	0.3628	BC006244	Hs.190722	C19orf62
221772_s_at	193.93	506.76	0.3827	AI138993	Hs.380372	PPP2R2D
221935_s_at	160.99	361.28	0.4456	AK023140	Hs.518059	C3orf64
222062_at	96.74	238.06	0.4064	AI983115	Hs.132781	IL27RA
222341_x_at	21.61	45.31	0.4769	AW973235	Hs.663481	---

222354_at	68.54	185.24	0.37	AW675655	Hs.517293	F11R
39248_at	409.26	1161.01	0.3525	N74607	Hs.234642	AQP3
222479_s_at	752.29	1519.24	0.4952	AK001081	Hs.529495	DYNC1LI1
222983_s_at	1473.95	3410.48	0.4322	BC001716	---	PAIP2
223519_at	112.18	257.41	0.4358	AW069181	Hs.444451	ZAK
223946_at	60.44	174.28	0.3468	AL136776	Hs.29679	MED23
224022_x_at	22.85	58.69	0.3893	AF169963	Hs.272375	WNT16
224225_s_at	126.59	289.54	0.4372	AF218365	Hs.272398	ETV7
224734_at	657.15	1513.21	0.4343	N92507	Hs.593339	HMGB1
225426_at	179.61	533.46	0.3367	AW195360	Hs.715605	PPP6C
225429_at	551.99	1317	0.4191	BF437011	Hs.715605	PPP6C
225435_at	346.77	1009.27	0.3436	BF679286	Hs.114033	SSR1
225537_at	226.55	532.86	0.4252	AA936745	Hs.13303	TRAPPC6B
225665_at	495.59	1120.16	0.4424	AI129320	Hs.444451	ZAK
226431_at	216.45	452.65	0.4782	AK025007	Hs.471130	FAM117B
218878_s_at	680.95	1575.09	0.4449	NM_012238	Hs.369779	SIRT1
226463_at	293.17	632.68	0.4634	AW241758	Hs.86905	ATP6V1C1
226712_at	241.23	679.16	0.3552	BF206389	Hs.114033	SSR1
226905_at	433.98	879.87	0.4932	BG036514	Hs.719324	FAM101B
226934_at	382.81	765.71	0.4999	AU149663	Hs.369606	CPSF6
227322_s_at	989.23	2063.22	0.4795	BE464077	Hs.715543	BCCIP
227432_s_at	343.35	780.97	0.4396	AI215106	Hs.705877	---
227639_at	499.38	1010.89	0.494	AI275605	Hs.178305	PIGK
227943_at	126.61	299.03	0.4234	AI798680	Hs.713638	---
227984_at	55.38	123.73	0.4476	BE464483	Hs.371980	LOC650392
228255_at	155.39	516.33	0.301	AU150140	Hs.12319	ALS2CR4
228548_at	140.49	375.51	0.3741	AU126086	Hs.586618	---
228655_at	141.56	437.83	0.3233	BE466077	Hs.112482	---
228715_at	96.55	218.93	0.441	AV725825	Hs.21417	ZCCHC12
229007_at	100.32	261.18	0.3841	N50864	Hs.696627	LOC283788
229011_at	29.52	64.98	0.4543	AA150501	Hs.594584	---
229111_at	86.52	471.57	0.1835	AA033699	Hs.632369	---
229187_at	79.92	179.5	0.4452	AI026708	Hs.702270	LOC283788
230192_at	138.56	287.08	0.4827	AI472310	Hs.436922	TRIM13
230836_at	19.08	50.86	0.3751	AI422986	Hs.308628	ST8SIA4
231716_at	338.61	719.77	0.4704	AF255304	Hs.533499	RC3H2
232049_at	34.2	94.72	0.3611	AK026718	Hs.125352	---
232291_at	224.23	466.01	0.4812	AA256157	Hs.24115	MIRHG1
233045_at	76.42	162.35	0.4707	AK023309	Hs.214040	LOC286126
233506_at	154.86	391.58	0.3955	N95440	Hs.102941	---

234552_at	104.84	270.72	0.3873	AK000090	Hs.527460	---
234758_at	16.11	38.8	0.4152	AK026789	Hs.677396	---
234759_at	74.49	185.38	0.4018	AK026836	---	---
235197_s_at	135.25	342.4	0.395	AV713913	Hs.719130	OSTM1
235198_at	202.44	530.57	0.3816	AV713913	Hs.719130	OSTM1
235324_at	179.08	477.61	0.375	AI445255	Hs.405144	SFRS3
235530_at	100.33	218.57	0.459	AI986112	Hs.587290	---
235743_at	27.25	59.06	0.4614	AA808178	---	---
236122_at	177.43	416.16	0.4264	H40696	Hs.658224	---
236146_at	60.85	140.08	0.4344	BF593158	Hs.571177	SYNCRIP
236193_at	35.03	70.12	0.4996	AA037483	Hs.658713	HIST1H2BC
236196_at	199.16	428.1	0.4652	BF939032	Hs.586567	---
236219_at	158.87	403.85	0.3934	AI452512	Hs.667007	---
236600_at	160.43	535.19	0.2998	AI651603	Hs.440414	SPG20
236655_at	176.02	417.22	0.4219	AI632972	Hs.368433	TPD52
236922_at	79.76	163.23	0.4886	AA772352	Hs.126889	---
237999_at	11.56	25.91	0.4462	AW195867	---	---
238078_at	96.97	216.21	0.4485	N71074	Hs.477361	SEC22A
238421_at	33.08	98.5	0.3358	N86386	Hs.533499	RC3H2
238448_at	98.08	216.02	0.454	BE544070	Hs.44024	MRPL19
238472_at	104.57	214.93	0.4865	R73399	Hs.216653	FBXO9
238552_at	13.2	34.79	0.3794	BF028392	Hs.659065	---
238584_at	73.3	150.78	0.4861	W52934	Hs.591594	IQCA1
238704_at	106.14	222.19	0.4777	BF245243	Hs.464402	---
238723_at	53.28	125.84	0.4234	AW083849	Hs.532632	ATXN3
239038_at	118.23	242.94	0.4867	AW015063	Hs.26226	C1orf52
239148_at	119.12	238.68	0.4991	AI493046	Hs.513706	MARVELD3
239184_at	25.53	51.56	0.4952	AI122555	Hs.417262	---
239301_at	8.95	18.61	0.4809	BE551451	Hs.631970	---
239423_at	46.31	103.45	0.4477	AW043836	---	---
239533_at	7.04	14.09	0.4996	AI970061	Hs.516604	GPR155
239552_at	54.15	115.74	0.4679	BF059479	Hs.669526	VWDE
239688_at	30.57	87.81	0.3481	AI733356	Hs.211602	SMC1A
240603_s_at	25.71	63.71	0.4035	AI688141	Hs.248437	ERI2
240627_x_at	37.07	85.78	0.4322	R38676	Hs.594546	---
241017_at	165.04	356.9	0.4624	AA779927	Hs.442657	TBC1D8
241372_at	91.71	198.54	0.4619	R34135	Hs.190477	ZC3H6
241541_at	148.59	300.74	0.4941	AW511227	Hs.135805	MIB2
242258_at	25.92	52.27	0.4959	AW168154	Hs.673171	---
242443_at	29.67	60.33	0.4918	AW026978	Hs.712606	EML5

242447_at	115.71	323.77	0.3574	AI656180	Hs.380048	C3orf70
242607_at	87.72	185.21	0.4736	AW975512	Hs.657682	---
242627_at	44.13	101.51	0.4347	BE780360	Hs.682433	---
243042_at	132.46	315.87	0.4193	BE645144	Hs.632419	FAM73A
243880_at	53.63	136.13	0.394	AW205003	Hs.463278	GOSR2
244107_at	114.67	266.14	0.4309	AW189097	---	---
244688_at	40.86	119.65	0.3415	AI743120	Hs.633144	---
1552278_a_at	187.51	405.37	0.4626	NM_080669	Hs.446689	SLC46A1
1552740_at	35.86	72.36	0.4956	NM_144706	Hs.352211	C2orf15
1552789_at	85.62	212.52	0.4029	NM_153039	Hs.622596	SEC62
1552897_a_at	114.51	229.87	0.4982	NM_133329	Hs.352633	KCNG3
1555560_at	17	34.73	0.4895	BC032302	Hs.193226	UGCGL2
1556062_at	42.29	90.61	0.4667	AW182934	Hs.139120	RPP30
1556488_s_at	19.17	42.36	0.4525	AF497717	Hs.341906	C3orf15
1557403_s_at	18.93	38.57	0.4908	AW104813	Hs.672731	---
1557593_at	28.83	71.05	0.4058	AA250798	Hs.528821	SPAG17
1560133_at	26.27	57.2	0.4593	BC012484	Hs.565319	GIGYF2
1560775_at	37.96	85.2	0.4455	AV703843	Hs.679549	---
1565743_at	28.86	73.73	0.3914	BG545582	Hs.661504	---
1566257_at	104.18	208.79	0.499	AL049452	Hs.439363	---
1566959_at	15.04	36.35	0.4138	AL049273	Hs.684587	---
1570552_at	63.54	145.4	0.437	AF363068	---	C18orf50

Supplementary Table S3: Target Sequences of siRNA Used in This Study

Gene	siRNA	Sequence
TDP-43 #1	Sense: 5'→3' Antisense: 5'→3'	GCUUUGGCUCAAGCAUGGAUUt AAUCCAUGCUUGAGCCAAAGCtt
TDP-43 #2 (3'UTR)	Sense: 5'→3' Antisense: 5'→3'	GGUGGUGCAUAAUGGAUAUt AUAUCCAUAUAGCACCACtt
FMRP #1	Sense: 5'→3' Antisense: 5'→3'	CAGAAGACUUACGGCAAUUt AUUUGCCGUAAGUCUUCUGtt
FMRP #2	Sense : 5'→3' Antisense: 5'→3'	GCACUAAGUUGUCUCUGAUUt AUCAGAGACAACUUAUGUCtt
STAU1 # 1	Sense: 5'→3' Antisense: 5'→3'	AGGGAUUC CAGGUUGAAUAt UAUUCAACCUGGAAUCCUtt
STAU1 #2	Sense: 5'→3' Antisense:5'→3'	CUGCAGUUGAACGAGUAAAt UUUACUCGUUCAACUGCAGtt

Supplementary Table S4: RT-qPCR Primers Used in This Study

Gene	Strand	Sequence
------	--------	----------

TUFT1	Forward	GAGGCAGAGAATTTAGAGATGC
TUFT1	Reverse	TCAAAGGCAGTGTTAACAGC
PTH	Forward	TCTGCAGTCCAATTCATCAG
PTH	Reverse	CACTCACAGATCTCTTCTTAACAG
CASP7	Forward	CCAATAAAGGATTTGACAGCCC
CASP7	Reverse	AGTAATAGCCTGGAACCGTG
NMNAT2	Forward	CACCTTTGTAGATGAGAATGCC
NMNAT2	Reverse	GTATTTGCGGAGTATTGAGGA
SULF1	Forward	CCTTATCAGCTCACAAATACAG
SULF1	Reverse	GATTAACCTTCCCATCCATCC
CCNA1	Forward	AACCTGGCTAAGTACGTAGC
CCNA1	Reverse	TACGCTTTATGAAGCTCACTC
KPNA4	Forward	CAGATGATATTGATGAAGACCC
KPNA4	Reverse	CTTTCCCGATTTAATGCAGC
TDP-43	Forward	GCTTCGCTACAGGAATCCAG
TDP-43	Reverse	GATCTTTCTTGACCTGCACC
AQP3	Forward	GTTTCCTCACCATCAACCTG
AQP3	Reverse	CCAGATTGCATCATAATACAGC
SIRT1	Forward	GTATTTATGCTCGCCTTGCT
SIRT1	Reverse	TTGCAAAGGAACCATGACAC
BCCIP	Forward	ACGGATGTTTCAGAAGACAG
BCCIP	Reverse	GCCAGTTCTTTCTGAAGCTG
ERI2	Forward	GAGAACATTCTGGGTTGGAC
ERI2	Reverse	CAAATTTCTGGCCAGAATGCT
CYR61	Forward	CCTTAGTCGTCACCCTTCTC
CYR61	Reverse	CTCTGACTGAGCTCTGCA
ZEB2	Forward	GCCTACACCTACCCAACTG
ZEB2	Reverse	CAAGCAATTCTCCCTGAAATCC
IGFBP6	Forward	TGAGGGCTGTCTCAGGA
IGFBP6	Reverse	TCCTCTGCAACAGCAGG
TPM4	Forward	AACTGAAAGAGGCTGAGACC
TPM4	Reverse	CTTACAAGAGAAGAGAAAGACCC
PCDH10	Forward	CCAACGAGACTAAACACCAG
PCDH10	Reverse	TCCCTGTTCACTGTCTCC
CNRIP1	Forward	GCAGGTGAGAAATATTCCA
CNRIP1	Reverse	GAACTTGACTTGCCACACTG
KCNG3	Forward	TAGCGTGTCCGGTGGT
KCNG3	Reverse	TCAATTATCCCGGAGGGC
TBC1D9	Forward	CGAGGAGAGTGAGAAAGAG
TBC1D9	Reverse	ACCGCATCTGAGAAGAG

SMC1A	Forward	GTGATTGATGTGATTTCGCTATGAG
SMC1A	Reverse	CATCTGCTCTTTCAGCTCC
MRPL19	Forward	GGAACGCAGGTTCTTGAG
MRPL19	Reverse	TCCTTCGATAACATTCCTAAGG
FMRP	Forward	GGAGGCTTCAAAGGAAACGAC
FMRP	Reverse	CTGTCTGGCTTCTCTTTCTTCTG
STAU-1	Forward	TCAATCCGATTAGCCGACTG
STAU-1	Reverse	TCTTTATGGGTGTCTTCTCCTCTG
GAPDH	Forward	AAGGTGAAGGTCGGAGTCAAC
GAPDH	Reverse	GGGGTCATTGATGGCAACAATA

Supplementary Table S5: RIP Primers Used in This Study

Gene	Strand	Sequence
SIRT1-#1	Forward	TGGAATACCTGACTTCAGGT
SIRT1-#1	Reverse	GCAAAGGAACCATGACACTG
SIRT1-#2	Forward	CAGTGTCATGGTTCCTTTGC
SIRT1-#2	Reverse	GGTCTTACTTTGAGGGAAGAC
SIRT1-#3	Forward	CAGTGTCATGGTTCCTTTGC
SIRT1-#3	Reverse	GTTTCATGATAGCAAGCGGT
SIRT1-#4	Forward	CAGTGTCATGGTTCCTTTGC
SIRT1-#4	Reverse	TCTTACTTTGAGGGAAGACCC
SIRT1-#5	Forward	AATTGTTCCACCAGCATTAGGAA
SIRT1-#5	Reverse	CCTTGCTCTATCGAGTTCACAAGTAA
SIRT1-#6	Forward	CACTGTGGTAGAGCTTGCATTGA
SIRT1-#6	Reverse	GGCTTTGCATATTCACATTTTGG
SIRT1-#7	Forward	GAGCAACAGGCCCTGATT
SIRT1-#7	Reverse	AGACATGTACTTTCTGGCTGAATTACA
HDAC6	Forward	ACGGTCCCTCTTCACGGTCCCTCTTCACCTTCT
HDAC6	Reverse	CTTCTGGGCTGGAGTCTTCTGGGCTGGAGTAGTGG
GAPDH	Forward	AAGGTGAAGGTCGGAGTCAAC
GAPDH	Reverse	GGGGTCATTGATGGCAACAATA