

Table S4. (A) List of iBAQ values for SAGA subunits.

SAGA subunits	iBAQ									
	Sgf73 $\Delta$ 4 a	Sgf73 $\Delta$ 4 b	WT a	WT b	WT c	WT d	Sgf73 $\Delta$ 2A a	Sgf73 $\Delta$ 2A b	Ada3 $\Delta$ 2A a	Ada3 $\Delta$ 2A b
<b>Gcn5</b>	203370000	114760000	443460000	403580000	226960000	410860000	151880000	81262000	73338	63005
<b>Ada2</b>	153200000	89191000	685210000	463620000	316480000	583770000	144830000	64448000	79984	139100
<b>Ada3</b>	206720000	122900000	550030000	544240000	287210000	588440000	126290000	63638000	24232	16242
<b>Sgf29</b>	188050000	65012000	398350000	322340000	105170000	428040000	142870000	55002000	33838	13386
<b>Ubp8</b>	0	0	235360000	220890000	98801000	272620000	0	0	27890000	28046000
<b>Sgf11</b>	0	0	122330000	262880000	67732000	192490000	0	0	7523000	6380800
<b>Sgf73</b>	179610000	140010000	457780000	528720000	428590000	542740000	0	0	69686000	62334000
<b>Sus1</b>	0	0	389590000	288680000	177840000	332870000	0	0	47205000	44718000
<b>Spt7</b>	267550000	170720000	423730000	427650000	388930000	503670000	284040000	169770000	61263000	62933000
<b>Spt8</b>	212680000	150780000	654970000	438390000	526350000	681380000	336920000	214500000	50883000	91161000
<b>Spt20</b>	181160000	152700000	568340000	522790000	413690000	630780000	241750000	110370000	72579000	76491000
<b>Spt3</b>	228660000	126070000	469390000	492100000	492210000	695690000	264560000	135080000	49056000	56984000
<b>Ada1</b>	252000000	190750000	515640000	523410000	448630000	616410000	191500000	105860000	76584000	59869000
<b>Tra1</b>	118940000	70123000	268810000	237470000	210280000	323930000	51849000	36005000	21697000	27141000
<b>Taf10</b>	231070000	123840000	669010000	485330000	378360000	719000000	269900000	148840000	77929000	43449000
<b>Taf12</b>	227460000	168740000	356020000	450740000	337630000	395390000	215100000	111780000	41479000	39914000
<b>Taf9</b>	268530000	209860000	520150000	727490000	496080000	689760000	326140000	187150000	75973000	62915000
<b>Taf6</b>	299440000	192980000	832190000	656430000	590600000	820680000	302720000	176200000	92558000	79915000
<b>Taf5</b>	203640000	155010000	470990000	445820000	366540000	479960000	246100000	138390000	58762000	69340000
<b>Chd1</b>	0	0	0	0	9693.3	0	9206.8	6482.9	0	0

Table S4. (B) List of adjNSAF values for SAGA subunits.

SAGA subunits	adjNSAF									
	Sgf73 $\Delta$ 4 a	Sgf73 $\Delta$ 4 b	WT a	WT b	WT c	WT d	Sgf73 $\Delta$ 2A a	Sgf73 $\Delta$ 2A b	Ada3 $\Delta$ 2A a	Ada3 $\Delta$ 2A b
<b>Gcn5</b>	0.02589699	0.01735487	0.02577707	0.02352921	0.01408449	0.02140644	0.02329172	0.01916568	0.00049374	0.00093988
<b>Ada2</b>	0.02684144	0.01788247	0.03063988	0.03030305	0.01858707	0.03398785	0.02891386	0.01671689	0.00033294	0.00047534
<b>Ada3</b>	0.03171692	0.02070928	0.03217602	0.03304939	0.0186637	0.03231774	0.03188945	0.01921033	0.0011022	0.00052454
<b>Sgf29</b>	0.0243476	0.01235178	0.02365979	0.0182888	0.00763474	0.01954024	0.01814067	0.01269165	0.00027852	0.00053019
<b>Ubp8</b>	0	0	0.02837378	0.02563218	0.01425793	0.02479277	0	0	0.03267869	0.02380224
<b>Sgf11</b>	0	0	0.01858279	0.01745539	0.01355632	0.02169186	0	0	0.02172443	0.0144741
<b>Sgf73</b>	0.02471318	0.0189023	0.02239829	0.0240581	0.01604037	0.02368372	0	0	0.02509204	0.01843567
<b>Sus1</b>	0	0	0.04029684	0.04157522	0.01996513	0.05884933	0	0	0.08659909	0.06608203
<b>Spt7</b>	0.04078837	0.02896392	0.035909	0.03531085	0.02625983	0.03580052	0.05093426	0.0345652	0.05204302	0.04296779
<b>Spt8</b>	0.03627689	0.02662904	0.0309235	0.03094396	0.02770037	0.03502657	0.05166282	0.04185338	0.04815642	0.04252044
<b>Spt20</b>	0.04813179	0.03786517	0.05094512	0.04218344	0.02992954	0.04510096	0.0493746	0.03514971	0.06331803	0.04534191
<b>Spt3</b>	0.02913388	0.02153643	0.03583092	0.03668445	0.02621309	0.0393507	0.04479177	0.02946923	0.05013329	0.0352778
<b>Ada1</b>	0.03207621	0.02641557	0.03459457	0.02855687	0.02396019	0.03046807	0.0302459	0.02161897	0.03568907	0.02678039
<b>Tra1</b>	0.02727105	0.02107626	0.02727404	0.02312813	0.01742697	0.02508946	0.01788083	0.0163009	0.02496327	0.02186436
<b>Taf10</b>	0.02990194	0.02275432	0.03714701	0.03053166	0.02385688	0.03391939	0.03234961	0.02833993	0.04512804	0.03362971
<b>Taf12</b>	0.0293073	0.02563883	0.02717407	0.03143307	0.02053173	0.02981045	0.02922248	0.02184044	0.03325715	0.02476168
<b>Taf9</b>	0.0378398	0.0257459	0.03325597	0.03733365	0.02144988	0.03179353	0.04238209	0.02513935	0.05637352	0.02879115
<b>Taf6</b>	0.03401234	0.02581317	0.02850691	0.02980444	0.0195722	0.02771382	0.0574409	0.03155866	0.05406595	0.04439416
<b>Taf5</b>	0.02500107	0.02134722	0.02518232	0.0240312	0.01696661	0.02200479	0.04000987	0.02271473	0.03752154	0.02656905
<b>Chd1</b>	0	0	0	0	0.00003296	0.00003886	0	0.0001248	0	0