

Table S6. Processed AP-MS data

Alternate ID	Basket-Plus (Mlp1 PrA)	Basket-minus (Nup133-GFP)	All NPCs (Nup133-GFP)	Delta mlp1/2	NPCs (Nup133-GFP)	Enp1-AID-HA +auxin (Mlp1-PrA)	Complex
Mlp1	2017.001828	9.715994021	135.7923497		0	578.7037037	Basket
NSP1	145.0335161	38.56502242	33.60655738		20.74592075	63.88888889	Central core
NUP192	112.8144442	29.59641256	44.80874317		21.21212121	103.7037037	Central core
NUP96	107.8610603	31.39013453	37.15846995		16.78321678	73.14814815	Central core
NUP145	104.0219378	65.76980568	80.87431694		62.7039627	84.25292926	Central core
MLP2	100	0.579707324	18.30601093		0	100.9259259	Basket
Pom152	99.08592322	28.25112108	36.33879781		20.51282051	86.11111111	Central core
NSP1	92.13893967	26.00896661	16.12021858		7.692307692	23.14814815	Central core
NUP157	80.31687995	24.96263079	33.06010929		17.71561772	76.85185185	Central core
Nup133	72.02925046	100.1494768	100.273224		100	37.96296296	Central core
NUP188	68.73857404	24.96263079	36.8852459		18.18181818	77.77777778	Central core
Nup159	68.73857404	19.43198804	22.13114754		9.324009324	29.62962963	Central core
NUP85	65.26508227	38.71444925	32.24043716		22.61072261	12.03703704	Central core
NUP120	58.86654479	47.08520179	37.43169399		27.73892774	32.40740741	Central core
NUP120	54.66179159	42.3019432	32.24043716		24.94172494	32.40740741	Central core
NUP2	53.3820841	2.541106129	7.650273224		0	31.48148148	Basket
Nup82	46.6179159	14.34977578	17.21311475		10.72261072	22.22222222	Central core
NUP84	44.60694698	65.76980568	68.85245902		59.67365967	29.62962963	Central core
NUP60	42.59597806	1	6.557377049		0	41.66666667	Basket
NUP57	36.92870201	14.64872945	18.85245902		10.02331002	33.33333333	Central core
NUP116	34.73491773	13.30343797	15.0273224		12.21212121	30.55555556	Central core
NUP100	32.54113346	7.623318386	9.836065574		4.895104895	19.44444444	Central core
ASM4	29.61608775	6.726457399	8.196721311		1.631701632	9.25929259	Central core
SEC13	21.81596587	21.97309417	25.13661202		21.67832168	43.51851852	Central core
GLE2	18.09872029	7.174887892	4.371584699		1.864801865	5.55555556	Central core
NUP85	17.55027422	6.128550075	4.644808743		3.263403263	1.851851852	Central core
POM34	15.72212066	2.242152466	1.912568306		0.932400932	5.55555556	Central core
NDCl	15.35648995	7.772795217	6.284153005		3.03030303	15.74074074	Central core
NUP157	13.89396709	4.783258959	3.551912568		2.564102564	12.96296296	Central core
NUP145	12.06581353	7.025411061	10.92896175		6.75990676	7.407407407	Central core
NUP1	4.387568556	0.4	2.5		0	0	Basket
NUP84	3.65630713	4.334828102	5.464480874		3.962703963	2.77777778	Central core
GLE1	2.559414991	0.597907324	1.639344262		0.932400932	5.55555556	Central core
Nup42	0.914076782	0	0		0	0	Central core
Nup53	42.23034735	12.85500747	15.0273224		5.594405594	25	Karyopherins & importin
	1718.464351	728.7542601	930.9153005		519.8135198	1756.481481	34
	36	35	35		29		
Kap95	43.20536258	4.334828102	9.836065574		3.962703963	50.92592593	Karyopherins & importin
SRP1	25.65508836	0	2.459016393		0	12.03703704	Karyopherins & importin
Kap123	11.2126752	2.840059791	7.37704918		4.428904429	25	Karyopherins & importin
KAP120	6.398537477	0	0.273224044		0	0	Karyopherins & importin
Pse1	0.914076782	0.149476831	0.546448087		3.03030303	12.96296296	Karyopherins & importin
MTR10	0.365630713	0	0		0	0	Karyopherins & importin
RNA1	0.060938452	1.644245142	4.918032787		3.962703963	25.92592593	Karyopherins & importin
	87.81230957	8.968609865	25.40983607		15.38461538	126.8518519	6
	7	4	6		5		
MEX67	182.2669104	20.62780269	23.7704918		12.58741259	55.55555556	export receptor
YRA1	17.97684339	3.736920777	3.819672131		1.165501166	41.66666667	Trex
PAB1	14.07678245	10.91180867	5.737704918		7.692307692	101.8518519	PolyA binding protein
PML39	12.6142596	0	1.639344262		0	4.62962963	Pml39
STO1	9.323583181	0	0		0	6.481481481	Cap
YHR127W	6.032906764	1.34529148	1.092896175		0	10.18518519	ND
MTR2	4.753199269	2.242152466	4.371584699		1.398601399	12.03703704	export receptor
NAB2	3.10786106	0	0.273224044		0	1.851851852	PolyA binding protein
Yra2	2.437538087	0.448430493	1.092896175		0.932400932	2.77777778	polyA export
Hpr1	0.731261426	0.149476831	1.092896175		0.466200466	0.925292926	THO complex
TIF4632	0.670322974	0.747384155	0		0	0	cap
Los1	0.670322974	0.747384155	1.092896175		0.466200466	0.925292926	cap
CBC2	0.365630713	0.448430493	0		0	0	cap
Tho2	0.365630713	0	0.819672131		1.165501166	7.407407407	THO complex
Gbp2	0	0.597907324	1.639344262		4.428904429	18.51851852	HrnRp
CDC31	17.00182815	0.2	3.825136612		2.797202797	13.88888889	Trex2
FIR1	0.182815356	0.448430493	4.918032787		1.631701632	0.925292926	3'RNA processing
	272.5776965	41.90403587	55.18579235		34.73193473	279.6296296	
	20	15	18		12	20	
SAC3	68.43388178	1.195814649	13.38797814		2.097902098	63.88888889	Trex2
SUS1	10.42047532	0.149476831	3.551912568		0	12.96296296	Trex2
THP1	9.87202925	0.149476831	1.912568306		0	7.407407407	Trex2
Sub2	4.936014625	0	4.918032787		0	20.37037037	Trex2
CDC31	17.00182815	0.2	3.825136612		2.797202797	13.88888889	Trex2
PML39	12.6142596	0	1.639344262		0	4.62962963	Pml39
UPL1	2.742230347	0.149476831	0.546448087		0	1.851851852	Central core
MAD1	8.592321755	0	0.7		0	12.96296296	SPD
MAD2	2.010968921	0	0		0	0	SPD
MPS3	1.462522852	0	0.819672131		0	0	SPD
MPS2	0.731261426	0	0		0	0	SPD
SPC110	0.548446069	0.149476831	5.191256831		0.693006999	10.74074074	SPD
KAR3	0.365630713	0	0		0	0	SPD
Kre28	0.182815356	0	0		0	0	SPD
Stu1	0	0.448430493	0.273224044		1.165501166	4.62962963	SPD
SPC42	0	0	0		0.233100233	4.62962963	SPD
CDC31	17.00182815	0.747384155	3.825136612		2.797202797	13.88888889	SPD
HOS3	3.290676417	0	2.459016393		4.195804196	25.92592593	histone modification
RNR2	3.168799512	0	4.098360656		15.38461538	22.22222222	DNA damage control
msh2	0.731261426	0	0.3		0	0	Telomere associated protein
Irr1p	0.731261426	0	0.273224044		0.233100233	2.77777778	Chromatin organization
Mcm16	0.731261426	0	0		0	0	DNA replication
Grc1	0.731261426	0	0		0	0	pdiII
CTF18	0.548446069	0.896860987	2.18579235		1.864801865	11.11111111	DNA replication
Sid2	0.548446069	0.149476831	0		0	0	DNA replication
HDA3	0.365630713	0.298953662	0		0	0	histone modification
SET2	0.182815356	1.195814649	3.551912568		3.962703963	0	histone modification
TOM1	0.609384522	0	0		0	0	histone modification
MRC1	0.609384522	0	0		0	0	DNA replication
SPB6	0.365630713	0	0		0.466200466	4.62962963	histone modification
BRE1	0.548446069	0.298953662	1.912568306		1.165501166	7.407407407	histone modification
	13.16270567	2.840059791	14.78087432		27.27272727	74.07407407	
	14	5	7		7	6	
RIF1	0.182815356	0	0		0	0	Telomere associated protein

Cdc48	0.182815356	0.149476831	0.273224044	0.233100233	0	Telomere associated protein
msh2	0.731261426	0	0.3	0	0	Telomere associated protein
	1.096892139	0.149476831	0.573224044	0.233100233	0	
	3	2	3	2	0	
RPB1	2	0.7	1.6	5.8	3.7	pollI
Swi6	0.365630713	0.896860987	1.366120219	0	3.703703704	transcription cofactor
Taf2	0.365630713	0	0	0	0	transcription cofactor
RPB2	0.121876904	2.092675635	3.005464481	3.263403263	4.62962963	PollI
SUB1	0.060938452	0	1.366120219	1.398601399	10.18518519	transcription cofactor
SPD14	0	2.989536622	8.196721311	0.699300699	3.703703704	transcription cofactor
Rpb11	0.365630713	0.597907324	1.092896175	0	0.925925926	PollI
RPB9	0.182815356	0	0	0	0	PollI
WTM1	10.78610603	0	4.918032787	4.662004662	30.55555556	transcription cofactor
RPB3	0.792199878	0.149476831	0	0	0	pollI
Gcr1	0.731261426	0	0	0	0	pollI
	15.77209019	7.426457399	21.54535519	15.82331002	57.4037037	
	10	6	7	5	7	
SMD1	1.279707495	0	2.18579235	1.165501166	9.259259259	spliceosomal complex
prp9	0.548446069	1.34529148	2.459016393	0.233100233	3.703703704	spliceosomal complex
prp45	0.548446069	0	0	0	0	spliceosomal complex
SME1	0.548446069	0	0	0	0	spliceosomal complex
Luc7	0.548446069	0	0	0	1.851851852	spliceosomal complex
prp43	0.2	0	0	0	1.851851852	spliceosomal complex
	3.673491773	1.34529148	4.644808743	1.398601399	16.66666667	
	6	1	2	2	4	
RPT5	6.642291286	6.427503737	6.010928962	4.195804196	6.481481481	proteasome
SEM1	5.850091408	0.896860987	1.639344262	0	4.62962963	proteasome
RPT2	5.118829982	2.989536622	2.732240437	0.233100233	13.88888889	proteasome
RPT3	4.753199269	1.046337818	1.639344262	2.564102564	0	proteasome
RPT6	3.778184034	5.381165919	8.743169399	7.925407925	27.77777778	proteasome
Rpn5	2.193784278	0	0.273224044	0	0.925925926	proteasome
PRE4	2.071907374	0	0.546448087	0	5.555555556	proteasome
RPN12	2.010968921	1.195814649	0.273224044	0	0	proteasome
Rpn8	1.889092017	0	0	0	0	proteasome
RPN9	1.584399756	0.298953662	0.273224044	0	4.62962963	proteasome
RPT4	1.462528252	3.886397608	4.918032787	4.895104895	28.7037037	proteasome
rpn6	1.157830591	0.298953662	2.459016393	0.932400932	9.259259259	proteasome
PRE8	1.096892139	0.298953662	2.18579235	1.631701632	14.81481481	proteasome
RPN1	1.035953687	2.69058296	6.284153005	7.692307692	24.07407407	proteasome
rpn11	0.914076782	0	0.819672131	0	5.555555556	proteasome
Ecm29	0.731261426	0	0	0	0	proteasome
Rpt1	0.548446069	4.783258959	5.737704918	0	1.851851852	proteasome
PRE3	0.548446069	1.046337818	3.005464481	1.165501166	6.481481481	proteasome
Rpn3	0.426569165	0	0	1.165501166	5.555555556	proteasome
RPN10	0.426569165	1.943198804	1.639344262	1.631701632	5.555555556	proteasome
rpn2	0.243753809	6.427503737	5.191256831	4.895104895	14.81481481	proteasome
PRE10	0.243753809	1.046337818	1.366120219	1.631701632	6.481481481	proteasome
rpn7	0.060938452	0.448430493	0	0	0	proteasome
	44.78976234	41.10612855	55.73770492	40.55944056	187.037037	
	23	17	19	13	18	
rpp4	0.731261426	0.298953662	0	0	0	RNA decay
rnp6	0.426569165	0.597907324	1.639344262	1.631701632	12.96296296	RNA decay
Sup35	1.279707495	0	0.546448087	0.233100233	0.925925926	RNA decay
LSM2	0.121876904	1.195814649	1.092896175	0.932400932	9.259259259	RNA decay (UG) sno +rRNA processing
LSM6	0.060938452	1.046337818	1.092896175	0	6.481481481	RNA decay (UG) sno +rRNA processing
	2.620354443	3.139013453	4.371584699	2.797202797	29.62962963	
	5	4	4	3	4	
CDC14	0	0	1.639344262	1.398601399	5.555555556	rDNA organization
NET1	0	0	1.639344262	1.398601399	15.74074074	pol1
POLL	0.231261426	0.597907324	1.092896175	0.699300699	0	pol1
	0.231261426	0.597907324	4.371584699	3.496503497	21.2962963	
	1	1	3	3	2	
TOR1	0.182815356	0.448430493	5.737704918	4.195804196	46.2962963	Rbiogenesis
Nop1	0	3.437967115	7.103825137	5.827505828	21.2962963	R biogenesis L
Rpl8A	0	4.633781764	3.551912568	3.72960373	0	R biogenesis L
Drs1	0	0.149476831	0	0	1.851851852	R biogenesis L
Utp13	0	0	0	0	1.851851852	R biogenesis L
RTK1	0	0.298953662	1.639344262	0.932400932	11.11111111	Rbiogenesis L
UTP21	0	0.298953662	0.546448087	0	0	R biogenesis L
RIX7	0	0.597907324	2.459016393	0	0.925925926	pre ribosomal export
RRP3	3.90060938	0	0	0	0	Rbiogenesis
KRE33	0.548446069	1.34529148	1.092896175	0.699300699	1.851851852	R biogenesis S
TSR1	0.365630713	0.298953662	0.273224044	0.466200466	11.11111111	R biogenesis S
D89P	0.182815356	0	0	0	0	Rbiogenesis
UTP20	0.182815356	0	1.366120219	0.466200466	0	R biogenesis L
ESF1	0	1.195814649	0	0.466200466	2.777777778	R biogenesis L
RPL30	0.67032974	1.943198804	4.918032787	3.03030303	20.37037037	R biogenesis L
ACL4	0.243753809	0	0	0	0	R biogenesis L
RPL1B	0	0	0.546448087	1.165501166	1.851851852	R biogenesis L
Utp23	0	2.69058296	6.284153005	3.962703963	19.44444444	R biogenesis S
	6.276660573	17.33931241	35.51912568	24.94172494	140.7407407	
	8	12	12	11	12	
RPL18A	0	0	0	0	1.851851852	60S protein
RPL23B	0	0.747384155	1.092896175	1.165501166	4.62962963	60S protein
L19	2.742230347	2.242152466	14.48087432	0	0	60S protein
RPL12A	1.706276661	2.989536622	3.005464481	3.263403263	3.703703704	60S protein
RPL5	1.340645948	4.484304933	5.191256831	4.662004662	5.555555556	60S protein
RPL23B	1.035953687	1.34529148	0.819672131	0.932400932	5.555555556	60S protein
RPL25	0.975015235	0	0	0	0	60S protein

RPP0	0.914076782	0	0	0	0	0	60S protein
RPL30	0.670322974	1.943198804	4.918032787	3.03030303	20.37037037	60S protein	60S protein
RPL33A	0.426569165	2.69058296	3.825136612	4.895104895	7.407407407	60S protein	60S protein
RPP2A	0.182815356	0.298953662	0	0	8.333333333	60S protein	60S protein
RPL5	0.060938452	5.381165919	2.18579235	0.466200466	0	60S protein	60S protein
RPL18	0	0	0	0	1.851851852	60S protein	60S protein
RPS26A	6.154783668	1.046337818	0	0	0	40S protein	40S protein
RPS15	1.096892139	3.288490284	2.18579235	4.428904429	0	40S protein	40S protein
RPS10B	0.792199878	3.886397608	0	10.72261072	0	40S protein	40S protein
ASCI	0.609384522	0	0	0	0	40S protein	40S protein
RPS7A	0.365630713	0	0	0	0	40S protein	40S protein
RPS9B	0.243753809	0.896860987	0.819672131	6.526806527	15.74074074	40S protein	40S protein
RPS0B	0.182815356	0.298953662	0.819672131	0	0	40S protein	40S protein
RPS7B	0	0	0.273224044	0	0	40S protein	40S protein
Frs1	0	0	0	0.699300699	3.703703704	trNAprocessing	
RET1	0	2.69058296	8.196721311	5.594405594	36.11111111	pol III	
Sap185	0	15.09715994	2.732240437	0.233100233	1.851851852	trNAprocessing	
RPCS3	0.609384522	0.597907324	1.092896175	0.699300699	2.777777778	pol III	
MES1	0	0.298953662	0.273224044	0	3.703703704	trNA nuclear export	
Los1	0.670322974	0	1.092896175	0.466200466	0.925252926	Nuclear pore protein; involved in nuclear export of pre-tRNA	
Poi32	0.182815356	0	0	0	3.703703704	pol III	
LSM2	0.121876904	1.195814649	1.092896175	0.932400932	9.259252926	trNAprocessing	
	1.584399756	19.88041854	14.48087432	8.624708625	62.03703704		
	4	5	6	6	8		
Bcd1	8.653260207	0	0	0	0	Sno Processing	
UTP14	0	0.597907324	1.366120219	1.398601399	0	Sno Processing	