

Table SI. Potential AURKA-interacted proteins from His-pull-down assay.

Number	Gene name	Description
1	KRT31	Keratin, type I cuticular Ha1 OS=Homo sapiens
2	AURKA	Aurora kinase A OS=Homo sapiens
3	MYH9	Myosin-9 OS=Homo sapiens
4	CHD8	Chromodomain-helicase-DNA-binding protein 8 OS=Homo sapiens
5	FLNA	Filamin A OS=Homo sapiens
6	PLEC	Plectin OS=Homo sapiens
7	PRPF8	Pre-mRNA-processing-splicing factor 8 OS=Homo sapiens
8	DOCK7	Dedicator of cytokinesis protein 7 OS=Homo sapiens
9	TJP1	Tight junction protein 1 (Zona occludens 1), isoform CRA_a OS=Homo sapiens
10	SNRNP200	U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Homo sapiens
11	KRT2	Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens
12	KRT10	Keratin, type I cytoskeletal 10 OS=Homo sapiens
13	USP34	Ubiquitin carboxyl-terminal hydrolase 34 OS=Homo sapiens
14	DDX42	ATP-dependent RNA helicase DDX42 OS=Homo sapiens
15	ASCC3	Activating signal cointegrator 1 complex subunit 3 OS=Homo sapiens
16	ITGB4	Integrin beta-4 OS=Homo sapiens
17	KRT1	Keratin, type II cytoskeletal 1 OS=Homo sapiens
18	TPR	Nucleoprotein TPR OS=Homo sapiens
19	CHD1	Chromodomain-helicase-DNA-binding protein 1 OS=Homo sapiens
20	PHF3	PHD finger protein 3 OS=Homo sapiens
21	LMAN1	Protein ERGIC-53 OS=Homo sapiens
22	NCOR2	Nuclear receptor corepressor 2 OS=Homo sapiens
23	KRT85	Keratin, type II cuticular Hb5 OS=Homo sapiens
24	PC	Pyruvate carboxylase, mitochondrial OS=Homo sapiens
25	KRT9	Keratin, type I cytoskeletal 9 OS=Homo sapiens
26	SLC4A7	Anion exchange protein OS=Homo sapiens
27	FAT1	Protocadherin Fat 1 OS=Homo sapiens
28	PPP1R10	Serine/threonine-protein phosphatase 1 regulatory subunit 10 OS=Homo sapiens
29	LMNA	Prelamin-A/C OS=Homo sapiens
30	DHX15	Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens
31	CHD2	Chromodomain-helicase-DNA-binding protein 2 OS=Homo sapiens
32	CDK12	Cyclin-dependent kinase 12 OS=Homo sapiens
33	SEMA3C	Semaphorin-3C OS=Homo sapiens
34	SF3A1	Splicing factor 3A subunit 1 OS=Homo sapiens
35	RNF20	E3 ubiquitin-protein ligase BRE1A OS=Homo sapiens
36	CKAP4	Cytoskeleton-associated protein 4 OS=Homo sapiens
37	TOP1	DNA topoisomerase 1 OS=Homo sapiens
38	TAF2	Transcription initiation factor TFIID subunit 2 OS=Homo sapiens

39	CYC1	Cytochrome c1, heme protein, mitochondrial OS=Homo sapiens
40	BRD4	Bromodomain-containing protein 4 OS=Homo sapiens
41	ESYT1	Extended synaptotagmin-1 OS=Homo sapiens
42	FNDC3B	Fibronectin type III domain-containing protein 3B OS=Homo sapiens
43	KRT7	Keratin, type II cytoskeletal 7 OS=Homo sapiens
44	SFPQ	Splicing factor, proline- and glutamine-rich OS=Homo sapiens
45	HSPA8	Heat shock cognate 71 kDa protein OS=Homo sapiens
46	EFTUD2	116 kDa U5 small nuclear ribonucleoprotein component OS=Homo sapiens
47	HSPA5	78 kDa glucose-regulated protein OS=Homo sapiens
48	KRT83	Keratin, type II cuticular Hb3 OS=Homo sapiens
49	CDK11B	Cyclin-dependent kinase 11B OS=Homo sapiens
50	DHX30	Putative ATP-dependent RNA helicase DHX30 OS=Homo sapiens
51	PPP1CA	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit OS=Homo sapiens
52	RBM25	RNA-binding protein 25 OS=Homo sapiens
53	KRT5	Keratin, type II cytoskeletal 5 OS=Homo sapiens
54	PHLDA1	Pleckstrin homology-like domain family A member 1 OS=Homo sapiens
55	BAIAP2L1	Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1 OS=Homo sapiens
56	SF3B2	Splicing factor 3B subunit 2 OS=Homo sapiens
57	CHERP	Calcium homeostasis endoplasmic reticulum protein OS=Homo sapiens
58	KRT14	Keratin, type I cytoskeletal 14 OS=Homo sapiens
59	RBM15B	Putative RNA-binding protein 15B OS=Homo sapiens
60	PKM	Pyruvate kinase PKM OS=Homo sapiens
61	HNRNPL	Heterogeneous nuclear ribonucleoprotein L OS=Homo sapiens
62	HSPA1B	Heat shock 70 kDa protein 1B OS=Homo sapiens
63	GNB2L1	Guanine nucleotide-binding protein subunit beta-2-like 1 OS=Homo sapiens
64	WDR82	WD repeat-containing protein 82 OS=Homo sapiens
65	NONO	Non-POU domain-containing octamer-binding protein OS=Homo sapiens
66	ERBB2	Receptor tyrosine-protein kinase erbB-2 OS=Homo sapiens
67	RERE	Arginine-glutamic acid dipeptide repeats protein OS=Homo sapiens
68	MATR3	Matrin-3 OS=Homo sapiens
69	RAB34	Ras-related protein Rab-34, isoform NARR OS=Homo sapiens
70	CDK9	Cyclin-dependent kinase 9 OS=Homo sapiens
71	CCNT1	Cyclin-T1 OS=Homo sapiens
72	ASPH	Aspartyl/asparaginyl beta-hydroxylase OS=Homo sapiens
73	LARP7	La-related protein 7 OS=Homo sapiens
74	NUFIP2	Nuclear fragile X mental retardation-interacting protein 2 OS=Homo sapiens
75	RPL15	60S ribosomal protein L15 OS=Homo sapiens
76	RTCB	tRNA-splicing ligase RtcB homolog OS=Homo sapiens
77	SLC30A6	Zinc transporter 6 OS=Homo sapiens
78	DDX1	ATP-dependent RNA helicase DDX1 OS=Homo sapiens

79	ABCF2	ATP-binding cassette sub-family F member 2 OS=Homo sapiens
80	ATXN2L	Ataxin-2-like protein OS=Homo sapiens
81	SLC25A5	ADP/ATP translocase 2 OS=Homo sapiens
82	NUDT21	Cleavage and polyadenylation specificity factor subunit 5 OS=Homo sapiens
83	ANXA10	Annexin A10 OS=Homo sapiens
84	MEPCE	7SK snRNA methylphosphate capping enzyme OS=Homo sapiens
85	ZNF574	HCG1643764, isoform CRA_b OS=Homo sapiens
86	C14orf166	UPF0568 protein C14orf166 OS=Homo sapiens
87	ALDH18A1	Delta-1-pyrroline-5-carboxylate synthase OS=Homo sapiens
88	RAB14	Ras-related protein Rab-14 OS=Homo sapiens
89	PYCR2	Pyrroline-5-carboxylate reductase 2 OS=Homo sapiens
90	RPS3	40S ribosomal protein S3 OS=Homo sapiens
91	U2SURP	U2 snRNP-associated SURP motif-containing protein OS=Homo sapiens
92	HSPA9	Stress-70 protein, mitochondrial OS=Homo sapiens
93	SLC30A1	Zinc transporter 1 OS=Homo sapiens
94	SERPINH1	Serpin H1 OS=Homo sapiens
95	SLC39A10	Zinc transporter ZIP10 OS=Homo
96	KRT19	Keratin, type I cytoskeletal 19 OS=Homo sapiens
97	PHB2	Prohibitin-2 OS=Homo sapiens
98	XRN2	5'-3' exoribonuclease 2 OS=Homo sapiens
99	PSPC1	Paraspeckle component 1 OS=Homo sapiens
100	POP1	Ribonucleases P/MRP protein subunit POP1 OS=Homo sapiens
101	PBXIP1	Pre-B-cell leukemia transcription factor-interacting protein 1 OS=Homo sapiens
102	RPS2	40S ribosomal protein S2 OS=Homo sapiens
103	HNRNPU	Heterogeneous nuclear ribonucleoprotein U OS=Homo sapiens
104	TRIM28	Transcription intermediary factor 1-beta OS=Homo sapiens
105	RPS4X	40S ribosomal protein S4, X isoform OS=Homo sapiens
106	YY1	Transcriptional repressor protein YY1 OS=Homo sapiens
107	RAB1B	Ras-related protein Rab-1B OS=Homo sapiens
108	VDAC1	Voltage-dependent anion-selective channel protein 1 OS=Homo sapiens
109	RHOA	Transforming protein RhoA OS=Homo sapiens
110	DDX5	Probable ATP-dependent RNA helicase DDX5 OS=Homo sapiens
111	RAB7A	Ras-related protein Rab-7a OS=Homo sapiens
112	STIM1	STIM1L OS=Homo sapiens
113	ANXA2	Annexin A2 OS=Homo sapiens
114	CPSF2	Cleavage and polyadenylation specificity factor subunit 2 OS=Homo sapiens
115	ZNF281	Zinc finger protein 281 OS=Homo sapiens
116	RPL9	60S ribosomal protein L9 OS=Homo sapiens
117	GRPEL1	GrpE protein homolog 1, mitochondrial OS=Homo sapiens
118	SLC30A5	Zinc transporter 5 OS=Homo sapiens

119	RPS8	40S ribosomal protein S8 OS=Homo sapiens
120	C1GALT1C1	C1GALT1-specific chaperone 1 OS=Homo sapiens
121	PABPC1	Polyadenylate-binding protein 1 OS=Homo sapiens
122	RAB2A	Ras-related protein Rab-2A OS=Homo sapiens
123	KRT18	Keratin, type I cytoskeletal 18 OS=Homo sapiens
124	RAN	GTP-binding nuclear protein Ran OS=Homo sapiens
125	ERP44	Endoplasmic reticulum resident protein 44 OS=Homo sapiens
126	PRDX1	Peroxiredoxin-1 (Fragment) OS=Homo sapiens
127	PPF1A1	Liprin-alpha-1 OS=Homo sapiens
128	VDAC2	Voltage-dependent anion-selective channel protein 2 OS=Homo sapiens
129	SLC39A14	Zinc transporter ZIP14 OS=Homo sapiens
130	SDF2	Stromal cell-derived factor 2 OS=Homo sapiens
131	USP7	Ubiquitin carboxyl-terminal hydrolase 7 OS=Homo sapiens
132	NUDCD1	NudC domain-containing protein 1 OS=Homo sapiens
133	STOM	Erythrocyte band 7 integral membrane protein OS=Homo sapiens
134	PYCR1	Pyroline-5-carboxylate reductase 1, mitochondrial OS=Homo sapiens
135	DNAJA3	DnaJ homolog subfamily A member 3, mitochondrial OS=Homo sapiens
136	RPN1	Dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit 1 OS=Homo sapiens
137	LSM12	Protein LSM12 homolog OS=Homo sapiens
138	DDX3X	ATP-dependent RNA helicase DDX3X OS=Homo sapiens
139	PRPF40A	Pre-mRNA-processing factor 40 homolog A OS=Homo sapiens
140	C1QBP	Complement component 1 Q subcomponent-binding protein, mitochondrial OS=Homo sapiens
141	CBX4	E3 SUMO-protein ligase CBX4 OS=Homo sapiens
142	DYRK1A	Dual specificity tyrosine-phosphorylation-regulated kinase 1A OS=Homo sapiens
143	TLE3	Transducin-like enhancer protein 3 OS=Homo sapiens
144	RPL7A	60S ribosomal protein L7a OS=Homo sapiens
145	PRDX4	Peroxiredoxin-4 OS=Homo sapiens
146	CPSF3	Cleavage and polyadenylation specificity factor subunit 3 OS=Homo sapiens
147	INTS3	Integrator complex subunit 3 OS=Homo sapiens
148	ACTG1	Actin, cytoplasmic 2 OS=Homo sapiens
149	RAB5C	Ras-related protein Rab-5C OS=Homo sapiens
150	RPL13	60S ribosomal protein L13 OS=Homo sapiens
151	TBPL1	TATA box-binding protein-like protein 1 OS=Homo sapiens
152	HSPB1	Heat shock protein beta-1 OS=Homo sapiens
153	TPX2	Targeting protein for Xkfp2 OS=Homo sapiens
154	MRPS22	28S ribosomal protein S22, mitochondrial OS=Homo sapiens
155	SLC30A7	Zinc transporter 7 OS=Homo sapiens
156	DPP9	Dipeptidyl peptidase 9 OS=Homo sapiens
157	CPSF4	Cleavage and polyadenylation specificity factor subunit 4 OS=Homo sapiens
158	RNF2	E3 ubiquitin-protein ligase RING2 OS=Homo sapiens

159	KRT8	Keratin, type II cytoskeletal 8 OS=Homo sapiens
160	RAB6A	Ras-related protein Rab-6A OS=Homo sapiens
161	RPL13A	60S ribosomal protein L13a OS=Homo sapiens
162	FAM76B	Protein FAM76B OS=Homo sapiens
163	PKP2	Plakophilin-2 OS=Homo sapiens
164	TOX4	TOX high mobility group box family member 4 OS=Homo sapiens
165	ELAVL1	ELAV-like protein 1 OS=Homo sapiens
166	CLK3	Dual specificity protein kinase CLK3 OS=Homo sapiens
167	HIST1H1C	Histone H1.2 OS=Homo sapiens
168	RPL18	60S ribosomal protein L18 (Fragment) OS=Homo sapiens
169	PAFAH1B3	Platelet-activating factor acetylhydrolase IB subunit gamma OS=Homo sapiens
170	SDCBP	Syntenin-1 OS=Homo sapiens
171	SLC39A6	Zinc transporter ZIP6 OS=Homo sapiens
172	LMNB1	Lamin-B1 OS=Homo sapiens
173	MRPS7	28S ribosomal protein S7, mitochondrial OS=Homo sapiens
174	PGAM5	Serine/threonine-protein phosphatase PGAM5, mitochondrial OS=Homo sapiens
175	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens
176	SNRPA1	U2 small nuclear ribonucleoprotein A' OS=Homo sapiens
177	TUFM	Elongation factor Tu, mitochondrial OS=Homo sapiens
178	SF1	Splicing factor 1 OS=Homo sapiens
179	CPSF7	Cleavage and polyadenylation-specificity factor subunit 7 (Fragment) OS=Homo sapiens
180	L1RE1	LINE-1 retrotransposable element ORF1 protein OS=Homo sapiens
181	RDH11	Retinol dehydrogenase 11 OS=Homo sapiens
182	HNRNPA0	Heterogeneous nuclear ribonucleoprotein A0 OS=Homo sapiens
183	SLC25A3	Phosphate carrier protein, mitochondrial OS=Homo sapiens
184	PRPF19	Pre-mRNA-processing factor 19 OS=Homo sapiens
185	RRAS2	Ras-related protein R-Ras2 OS=Homo sapiens
186	SF3A3	Splicing factor 3A subunit 3 OS=Homo sapiens
187	TWF1	Twinfilin-1 OS=Homo sapiens
188	GRN	Granulins OS=Homo sapiens
189	SEC22B	Vesicle-trafficking protein SEC22b OS=Homo sapiens
190	RPS6	40S ribosomal protein S6 OS=Homo sapiens
191	NPM1	Nucleophosmin OS=Homo sapiens
192	WAC	WW domain-containing adapter protein with coiled-coil OS=Homo sapiens
193	SDF2L1	Stromal cell-derived factor 2-like protein 1 OS=Homo sapiens
194	VDAC3	Voltage-dependent anion-selective channel protein 3 OS=Homo sapiens
195	SLC39A7	Zinc transporter SLC39A7 OS=Homo sapiens
196	PRPF6	Pre-mRNA-processing factor 6 OS=Homo sapiens
197	PYCRL	Pyrroline-5-carboxylate reductase OS=Homo sapiens
198	ZNF444	Zinc finger protein 444 OS=Homo sapiens

199	RPL10	60S ribosomal protein L10 (Fragment) OS=Homo sapiens
200	FAM98A	Protein FAM98A OS=Homo sapiens
201	RAB9A	Ras-related protein Rab-9A OS=Homo sapiens
202	VAPA	Vesicle-associated membrane protein-associated protein A OS=Homo sapiens
203	HNRNPK	Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens
204	PHB	Prohibitin (Fragment) OS=Homo sapiens
205	DLX6	Homeobox protein DLX-6 OS=Homo sapiens
206	AAAS	Aladin OS=Homo sapiens
207	PTGFRN	Prostaglandin F2 receptor negative regulator OS=Homo sapiens
208	TMEM33	Transmembrane protein 33 OS=Homo sapiens
209	SEN1	Sentrin-specific protease 1 OS=Homo sapiens
210	TBL1XR1	F-box-like/WD repeat-containing protein TBL1XR1 OS=Homo sapiens
211	RPL7	60S ribosomal protein L7 OS=Homo sapiens
212	RPL14	60S ribosomal protein L14 OS=Homo sapiens
213	TCP1	T-complex protein 1 subunit alpha OS=Homo sapiens
214	TUBB	Tubulin beta chain OS=Homo sapiens
215	CPSF6	Cleavage and polyadenylation-specificity factor subunit 6 OS=Homo sapiens
216	DERL1	Derlin-1 OS=Homo sapiens
217	SLC3A2	4F2 cell-surface antigen heavy chain OS=Homo sapiens
218	SEH1L	Nucleoporin SEH1 OS=Homo sapiens
219	CCT3	T-complex protein 1 subunit gamma OS=Homo sapiens
220	RPL8	60S ribosomal protein L8 OS=Homo sapiens
221	REPIN1	Replication initiator 1 OS=Homo sapiens
222	NSA2	Ribosome biogenesis protein NSA2 homolog OS=Homo sapiens
223	PPP1CB	Serine/threonine-protein phosphatase PP1-beta catalytic subunit OS=Homo sapiens
224	CDK11A	Cyclin-dependent kinase 11A OS=Homo sapiens
225	KRT16	Keratin, type I cytoskeletal 16 OS=Homo sapiens
226	TIMM50	Mitochondrial import inner membrane translocase subunit TIM50 OS=Homo sapiens
227	U2AF1	Splicing factor U2AF 35 kDa subunit OS=Homo sapiens
228	GATA6	Transcription factor GATA-6 OS=Homo sapiens
229	RPL27A	60S ribosomal protein L27a OS=Homo sapiens
230	MRPS23	28S ribosomal protein S23, mitochondrial OS=Homo sapiens
231	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3 OS=Homo sapiens
232	LSG1	Large subunit GTPase 1 homolog OS=Homo sapiens NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial OS=Homo sapiens
233	NDUFA10	sapiens
234	CANX	Calnexin OS=Homo sapiens
235	DYNC1H2	Cytoplasmic dynein 1 intermediate chain 2 OS=Homo sapiens
236	PPIL4	Peptidyl-prolyl cis-trans isomerase-like 4 OS=Homo sapiens
237	CSNK2A2	Casein kinase II subunit alpha' OS=Homo sapiens

238	MCCC1	Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial OS=Homo sapiens
239	YWHAG	14-3-3 protein gamma OS=Homo sapiens

AURKA, Aurora kinase A.
