

Appendix 2. Proteins that interacted with CRYAA with a SNR ≥ 1.2

No.	Protein	SNR	Protein Description
1	HCLS1	21.10	Hematopoietic cell-specific Lyn substrate 1
2	KLHDC6	4.45	Kelch domain containing 6
3	SGCD	4.08	Sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
4	KIAA1706	3.55	KIAA1706 protein
5	RNGTT	3.45	RNA guanylyltransferase and 5'-phosphatase
6	C10orf57	3.38	Chromosome 10 open reading frame 57
7	C9orf52	3.08	Chromosome 9 open reading frame 52
8	PLAUR	3.05	Plasminogen activator, urokinase receptor
9	CDC40	2.90	Cell division cycle 40 homolog (S. cerevisiae)
10	MAPKBP1	2.86	Mitogen activated protein kinase binding protein 1
11	SLC25A28	2.81	Solute carrier family 25, member 28
12	ZSCAN20	2.73	Zinc finger and SCAN domain containing 20
13	MORG1	2.72	Mitogen-activated protein kinase organizer 1
14	PHC1	2.65	Polyhomeotic homolog 1 (Drosophila)
15	WDR42A	2.50	WD repeat domain 42A
16	CSTF2T	2.33	Cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant
17	FAM122B	2.17	Family with sequence similarity 122B
18	IGHG1	2.15	Immunoglobulin heavy constant gamma 1 (G1m marker)
19	ARMCX4	2.12	Armadillo repeat containing, X-linked 4
20	C20orf19	2.03	Chromosome 20 open reading frame 19
21	CRTAC1	1.99	Cartilage acidic protein 1
22	FAM131B	1.98	Family with sequence similarity 131, member B

23	APPL2	1.98	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2
24	E2F7	1.98	E2F transcription factor 7
25	PTTG2	1.98	Pituitary tumor-transforming 2
26	LIMA1	1.95	LIM domain and actin binding 1
27	FAM105B	1.95	Family with sequence similarity 105, member B
28	FASN	1.94	Fatty acid synthase
29	FAM131B	1.92	Family with sequence similarity 131, member B
30	ZIM2	1.92	Zinc finger, imprinted 2
31	DUS4L	1.91	Dihydrouridine synthase 4-like (<i>S. cerevisiae</i>)
32	UBR2	1.90	Ubiquitin protein ligase E3 component n-recogin 2
33	KNG1	1.86	Kininogen 1
34	CXorf21	1.86	Chromosome X open reading frame 21
35	ZNF639	1.85	Zinc finger protein 639
36	TNRC15	1.85	Trinucleotide repeat containing 15
37	HSPB1	1.85	Heat shock 27kDa protein 1
38	NAT9	1.82	N-acetyltransferase 9
39	FAM131C	1.80	Family with sequence similarity 131, member C
40	GNAI2	1.78	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2
41	MYO5C	1.74	Myosin VC
42	C9orf37	1.71	Chromosome 9 open reading frame 37
43	RAD51	1.71	RAD51 homolog (RecA homolog, <i>E. coli</i>) (<i>S. cerevisiae</i>)
44	TTC27	1.70	Tetratricopeptide repeat domain 27
45	FAM131C	1.69	Family with sequence similarity 131, member C
46	SULF1	1.69	Sulfatase 1
47	WIPI2	1.69	WD repeat domain, phosphoinositide interacting 2
48	PAFAH1B1	1.65	Platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa

49	GSTZ1	1.65	Glutathione transferase zeta 1 (maleylacetoacetateisomerase)
50	WWC2	1.64	WW and C2 domain containing 2
51	HSFY2	1.62	Heat shock transcription factor, Y linked 2
52	PSMB6	1.59	Proteasome (prosome, macropain) subunit, beta type, 6
53	SEH1L	1.57	SEH1-like (<i>S. cerevisiae</i>)
54	C20orf91	1.57	Chromosome 20 open reading frame 91
55	MGC35361	1.56	Hypothetical MGC35361
56	CD209	1.56	CD209 molecule
57	ADPRHL1	1.55	ADP-ribosylhydrolase like 1
58	AKT3	1.52	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
59	IGHG1	1.51	Immunoglobulin heavy constant gamma 1 (G1m marker)
60	CAMKK2	1.50	Calcium/calmodulin-dependent protein kinase kinase 2, beta
61	SLC25A26	1.48	Solute carrier family 25, member 26
62	TGOLN2	1.47	Trans-golgi network protein 2
63	C13orf34	1.44	Chromosome 13 open reading frame 34
64	AKT3	1.44	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
65	NUP43	1.43	Nucleoporin 43kDa
66	RAB40B	1.43	RAB40B, member RAS oncogene family
67	ALDH1L2	1.43	Aldehyde dehydrogenase 1 family, member L2
68	CER1	1.43	Cerberus 1, cysteine knot superfamily, homolog (<i>Xenopus laevis</i>)
69	CEBPZ	1.43	CCAAT/enhancer binding protein zeta
70	ARFGAP1	1.41	ADP-ribosylation factor GTPase activating protein 1
71	TUBAL3	1.41	Tubulin, alpha-like 3
72	SYK	1.40	Spleen tyrosine kinase
73	RNH1	1.39	Ribonuclease/angiogenin inhibitor 1
74	OSBPL3	1.39	Oxysterol binding protein-like 3

75	SLC25A25	1.38	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25
76	RPS6KA5	1.38	Ribosomal protein S6 kinase, 90kDa, polypeptide 5
77	ATG16L1	1.38	ATG16 autophagy related 16-like 1 (<i>S. cerevisiae</i>)
78	CENPH	1.38	Centromere protein H
79	C14orf100	1.36	Chromosome 14 open reading frame 100
80	WDR23	1.35	WD repeat domain 23
81	MTERFD2	1.35	MTERF domain containing 2
82	COPB2	1.34	Coatomer protein complex, subunit beta 2 (beta prime)
83	GLYATL1	1.33	Glycine-N-acyltransferase-like 1
84	LARP6	1.33	La ribonucleoprotein domain family, member 6
85	SSBP4	1.33	Single stranded DNA binding protein 4
86	MPHOSPH6	1.33	M-phase phosphoprotein 6
87	TUBGCP5	1.32	Tubulin, gamma complex associated protein 5
88	DDX3X	1.32	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked
89	SLC20A1	1.31	Solute carrier family 20 (phosphate transporter), member 1
90	RNH1	1.31	Ribonuclease/angiogenin inhibitor 1
91	BTRC	1.31	Beta-transducin repeat containing
92	MCRS1	1.31	Microspherule protein 1
93	C16orf42	1.31	Chromosome 16 open reading frame 42
94	SESN2	1.30	Sestrin 2
95	HABP4	1.30	Hyaluronan binding protein 4
96	RBBP7	1.29	Retinoblastoma binding protein 7
97	C21orf7	1.28	Chromosome 21 open reading frame 7
98	PTPN2	1.28	Protein tyrosine phosphatase, non-receptor type 2
99	PCYT2	1.28	Phosphate cytidylyltransferase 2, ethanolamine
100	ETFB	1.28	Electron-transfer-flavoprotein, beta polypeptide

101	SEC24C	1.27	SEC24 related gene family, member C (<i>S. cerevisiae</i>)
102	RAB7L1	1.27	RAB7, member RAS oncogene family-like 1
103	TLE4	1.27	Transducin-like enhancer of split 4 (E(sp1) homolog, <i>Drosophila</i>)
104	C12orf59	1.27	Chromosome 12 open reading frame 59
105	IGKV1-5	1.26	Immunoglobulin kappa variable 1-5
106	FAM131B	1.26	Family with sequence similarity 131, member B
107	UPP1	1.26	Uridinephosphorylase 1
108	PMS2	1.26	PMS2 postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)
109	NCF4	1.25	Neutrophil cytosolic factor 4, 40kDa
110	RAB43	1.25	RAB43, member RAS oncogene family
111	EYA4	1.24	Eyes absent homolog 4 (<i>Drosophila</i>)
112	C12orf64	1.24	Chromosome 12 open reading frame 64
113	ZNF3	1.24	Zinc finger protein 3
114	RAB3C	1.24	RAB3C, member RAS oncogene family
115	LOC492311	1.24	Similar to bovine IgA regulatory protein
116	CNOT8	1.23	CCR4-NOT transcription complex, subunit 8
117	FAM63A	1.23	Family with sequence similarity 63, member A
118	DCK	1.23	Deoxycytidine kinase
119	WDR55	1.23	WD repeat domain 55
120	MCM7	1.22	Minichromosome maintenance complex component 7
121	RAB24	1.22	RAB24, member RAS oncogene family
122	ANKRD44	1.22	Ankyrin repeat domain 44
123	TFDP1	1.21	Transcription factor Dp-1
124	TEAD4	1.21	TEA domain family member 4
125	WDR42A	1.20	WD repeat domain 42A
126	QRICH1	1.20	Glutamine-rich 1

127	PRM2	1.20	Protamine 2
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SNR: Signals to Noise Ratios