

Table S1. The detailed value of P_{ribose} , $P_{\text{phosphate}}$ and P_{base} in the 487 protein-RNA complexes.

PDB ID	Protein chain	RNA chain	P_{base}	$P_{\text{phosphate}}$	P_{ribose}	PDB ID	Protein Chain	RNA Chain	P_{base}	$P_{\text{phosphate}}$	P_{ribose}
1a9n	B	Q	62.10	15.97	21.93	1asy	A	R	40.42	30.80	28.79
1asz*	A	R	39.95	26.32	33.73	1av6	A	B	14.87	43.47	41.66
1b23	P	R	24.05	28.99	46.96	1b7f*	A	P	65.84	11.34	22.81
1c0a	A	B	34.93	30.62	34.45	1c9s	LMNOPQRSTUW	W	77.80	0.48	21.73
1dfu*	P	MN	24.63	39.95	35.42	1di2*	AB	CDEG	9.52	32.87	57.61
1dk1	A	B	13.89	34.60	51.51	1drz	A	B	62.94	19.38	17.68
1dul	A	B	37.96	13.49	48.55	1e7k*	A	C	56.67	30.14	13.18
1ec6*	A	D	63.12	5.84	31.04	1efw*	A	C	32.79	37.45	29.75
1euy	A	B	35.34	26.47	38.18	1exd	A	B	35.16	25.66	39.18
1f7u*	A	B	38.62	23.49	37.89	1f7v	A	B	38.77	22.93	38.30
1f7y*	A	B	9.39	38.72	51.88	1feu	A	BC	21.66	35.30	43.04
1ffy	A	T	19.58	31.86	48.55	1fxl	A	B	57.93	20.47	21.60
1glx*	ABC	DE	15.86	37.75	46.39	1g2e	A	B	59.22	17.71	23.07
1g59	A	B	23.52	32.01	44.47	1gax*	A	C	37.34	23.56	39.10
1gtf*	LMNOPQRST	W	78.82	5.10	16.06	1gtm	LMNOPQRSTUW	W	75.09	4.96	19.95
1gtr*	A	B	35.55	25.89	38.56	1gts	A	B	36.00	25.54	38.47
1h3e*	A	B	30.77	33.98	35.25	1h4q	AB	T	53.20	15.96	30.83
1h4s	AB	T	53.44	16.14	30.42	1hc8	A	C	13.71	30.94	55.35
1hq1	A	B	33.74	17.70	48.56	1i6u*	A	C	11.62	31.50	56.88
1il2*	A	C	35.03	31.91	33.06	1ivs	A	C	37.29	24.06	38.65
1j1u	A	B	52.12	13.00	34.88	1jbr	AB	CDF	51.48	27.93	20.60
1jbs	A	C	43.43	35.10	21.47	1jbt	A	C	43.61	34.45	21.94
1jld*	A	B	15.10	55.16	29.74	1k8w	A	B	31.95	38.88	29.17
1kq2*	ABHIKM	R	59.11	16.90	23.99	1kuq	A	B	15.99	30.00	54.00
1l9a*	A	B	15.07	57.47	27.45	1lng	A	B	23.99	48.59	27.42
1m5k	C	B	63.53	15.63	20.83	1m5o	C	B	64.24	14.76	21.00
1m5p	C	B	62.44	15.82	21.74	1m5v	C	B	64.08	15.38	20.54
1m8v*	ABCDEFGH	OPQRSTU	65.97	7.87	26.16	1m8w*	A	C	78.04	1.88	20.08
1m8x	A	C	72.69	2.20	25.11	1m8y	A	C	73.64	1.52	24.84
1mji*	AB	CD	22.10	28.42	49.48	1mms	AB	CD	17.31	31.50	51.19
1mzp*	A	B	10.77	45.48	43.75	1n35*	A	BC	18.55	36.63	44.81
1n77	A	C	23.84	29.20	46.96	1n78	A	C	23.63	28.89	47.48
1o0b	A	B	35.45	27.32	37.23	1o0c	A	B	35.54	26.49	37.97
1ooa*	A	C	48.98	38.55	12.47	1q2*	ABCD	EF	41.08	27.85	31.07
1qa6	A	C	14.08	33.40	52.52	1qf6*	A	B	42.07	23.01	34.92
1qrs	A	B	35.58	24.73	39.68	1qrt	A	B	35.55	25.23	39.22
1qru	A	B	35.33	25.72	38.95	1qtq	A	B	35.24	26.96	37.80
1qu2	A	T	19.58	31.86	48.55	1qu3*	A	T	16.19	31.97	51.84
1r3e	A	C	31.52	39.30	29.19	1rc7	A	BCDE	9.19	28.14	62.67
1rlg	A	C	60.64	23.38	15.98	1rpu*	AB	CD	12.85	40.06	47.09
1s03*	H	A	21.40	30.75	47.84	1sds*	A	D	68.16	13.21	18.62
1ser*	AB	T	12.83	46.05	41.12	1si3	A	B	21.63	48.88	29.49

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Product Line			Region A			Region B			Region C		
ID	Code	Type	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3
1sj3	P	R	61.80	16.38	21.82	1sj4	P	R	62.00	16.61	21.39
1sjf	A	B	61.20	17.06	21.73	1tfv	ABCD	EFGHIJ	23.76	35.88	40.36
1ttt	A	D	19.23	28.69	52.07	1u0b*	B	A	27.20	28.69	44.11
1urn	A	P	65.56	11.92	22.51	1vbx	A	B	61.82	16.12	22.06
1vby	A	B	62.87	15.59	21.54	1vbz	A	B	62.21	15.56	22.22
1vc0	A	B	62.20	16.63	21.16	1vc6	A	B	61.80	16.37	21.83
1wmq	A	C	59.86	4.78	35.36	1wne	A	BC	24.72	31.15	44.13
1wpu	A	C	58.33	2.66	39.00	1wrq	A	C	60.21	3.47	36.32
1wsu*	ABC	EFG	15.00	50.00	35.00	1y39*	A	C	13.21	30.17	56.61
1ytu*	A	CD	33.23	34.29	32.47	1yty	AB	CD	46.30	21.80	31.91
1yvp	A	CDG	47.87	30.77	21.36	1yyo	AB	CDEF	8.72	28.62	62.66
1yz9	AB	CDEF	10.18	22.51	67.31	1zbh*	AD	EF	34.32	42.35	23.32
1ze2	AB	CD	26.82	37.34	35.84	1zh5	AB	CD	47.05	21.64	31.31
1zho	E	F	6.80	46.59	46.61	1zjw	A	B	35.11	27.12	37.77
1zl3*	A	B	32.26	39.28	28.46	2a8v*	B	E	70.63	12.26	17.10
2ab4*	A	B	32.38	41.25	26.37	2ann	A	B	58.23	9.99	31.78
2anr	A	B	59.24	12.90	27.86	2asb	A	B	57.56	10.03	32.41
2atw*	A	B	60.23	10.63	29.14	2az0	AB	CD	6.81	42.11	51.08
2az2*	AB	CD	7.22	41.77	51.01	2azx*	A	C	36.28	27.20	36.52
2b3j	AB	EF	51.60	19.85	28.55	2bgg	A	PQ	33.02	32.01	34.97
2bh2*	A	C	47.91	19.05	33.05	2bte*	A	B	21.05	36.34	42.61
2bx2*	L	R	34.51	41.10	24.40	2csx*	A	C	24.53	22.09	53.38
2ct8	A	C	25.46	25.56	48.98	2cv0*	A	C	23.49	29.55	46.96
2cv1	A	C	23.97	28.74	47.29	2cv2	A	C	23.64	28.02	48.34
2db3	B	F	12.65	46.67	40.68	2dlc	X	Y	58.89	9.86	31.25
2dr2	A	B	43.19	23.04	33.77	2dr5	A	B	21.20	37.21	41.59
2dr7	A	B	19.23	39.09	41.68	2dr8	A	B	23.54	38.69	37.76
2dr9	A	B	24.03	34.65	41.32	2dra	A	B	23.41	35.71	40.88
2drb	A	B	25.38	33.21	41.41	2dvi	A	B	23.82	35.12	41.05
2dxi	A	C	23.60	29.76	46.64	2e9r	X	AB	19.77	34.49	45.74
2e9t	A	BC	10.04	40.35	49.61	2e9z	A	BC	17.54	35.44	47.02
2ec0	A	BC	12.59	40.52	46.89	2ez6	AB	CD	7.97	28.67	63.36
2f8k	A	B	39.43	44.88	15.69	2f8s	A	CD	45.07	25.26	29.66
2fk6*	A	R	27.62	33.92	38.46	2fmt*	A	C	28.01	28.36	43.63
2g4b*	A	B	60.89	12.00	27.11	2gic*	ABCDE	R	33.04	40.62	26.34
2giw	AB	EFH	40.77	24.75	34.48	2gxb	AB	EF	8.08	60.98	30.94
2hvy	ACD	E	38.01	31.67	30.32	2hw8*	A	B	6.97	42.53	50.50
2hyi	ABCD	F	18.63	40.45	40.93	2i82*	AB	EF	31.30	31.52	37.19
2i91*	A	CD	32.25	36.98	30.77	2ix1	A	B	51.00	22.60	26.40
2j0s*	A	E	16.91	43.17	39.92	2jlu*	A	C	21.82	35.24	42.94
2jlv	A	C	23.82	34.56	41.63	2jlw	A	C	29.86	37.06	33.09
2jlx	A	C	29.88	33.07	37.05	2jly	A	C	31.81	31.61	36.58
2jlz	A	C	29.87	33.51	36.63	2nue	AB	C	6.57	34.97	58.46
2nuf	AB	CD	6.82	30.16	63.02	2nug	AB	CEDF	12.21	28.98	58.82

2nz4	B	FQ	54.34	21.42	24.23	2oih	A	B	60.60	18.23	21.17
2oj3	A	B	61.53	17.65	20.82	2ozb*	AB	C	49.83	34.06	16.11
2pjp	A	B	52.60	38.94	8.46	2ply	AB	CE	29.16	47.81	23.03
2po1	AB	C	34.64	34.78	30.58	2pxb	A	B	37.82	13.57	48.61
2pxd	A	B	36.65	14.54	48.82	2pxe	A	B	38.61	12.87	48.52
2pxf	A	B	37.17	13.28	49.56	2pxk	A	B	36.19	15.61	48.20
2pxl	A	B	36.66	14.07	49.27	2pxp	A	B	37.83	13.04	49.13
2pxq	A	B	37.01	13.38	49.62	2pxt	A	B	38.68	13.98	47.34
2pxu	A	B	37.53	13.31	49.15	2pxv	A	B	35.71	17.54	46.75
2py9*	ABCD	EF	62.12	9.17	28.70	2qux*	AB	C	58.66	24.71	16.63
2r7r	A	X	49.91	20.78	29.31	2r7t	A	X	50.54	22.17	27.29
2r7v	A	X	33.31	38.69	27.99	2r7w	A	X	49.99	20.73	29.28
2r7x	A	X	50.40	20.81	28.79	2r8s*	HL	R	31.24	27.89	40.87
2rd2	A	B	35.14	26.99	37.88	2re8	A	B	34.91	26.78	38.31
2rfk	ABC	DEF	27.45	30.74	41.81	2uwm	AB	CD	28.95	46.79	24.26
2v3c*	AC	M	21.76	39.35	38.89	2vnu	D	B	42.53	28.57	28.90
2vod	A	C	62.33	17.55	20.13	2von	A	C	62.33	18.56	19.11
2vpl	A	B	7.94	38.84	53.22	2xbm	AC	F	43.90	46.90	9.20
2xd0	A	G	50.38	30.01	19.61	2xdb*	A	G	43.56	35.81	20.63
2xli*	A	B	13.00	45.00	42.00	2xlj	A	B	36.66	50.05	13.29
2xlk	A	C	37.89	47.28	14.83	2xs2*	A	B	56.81	18.80	24.39
2xs7	A	B	56.04	18.81	25.15	2xzl	A	B	37.70	31.10	31.20
2xzo*	A	D	31.27	37.48	31.25	2y8w	A	B	51.28	30.47	18.25
2y8y*	A	B	40.53	43.74	15.72	2y9h	A	B	31.05	49.04	19.91
2ykg	A	CD	10.33	41.51	48.16	2zh1	A	B	19.75	39.38	40.88
2zh2	A	B	21.86	37.42	40.72	2zh3	A	B	22.70	36.21	41.09
2zh4	A	B	23.49	36.46	40.04	2zh5	A	B	20.98	36.81	42.20
2zh6	A	B	23.40	36.00	40.60	2zh7	A	B	20.22	38.81	40.98
2zh8	A	B	20.88	37.38	41.74	2zh9*	A	B	19.11	38.90	41.99
2zha	A	B	21.59	39.59	38.82	2zi0*	AB	CD	31.06	62.86	6.08
2zko*	AB	CD	8.43	31.26	60.30	2zm5	A	C	34.46	36.19	29.35
2zue*	A	B	42.66	22.13	35.20	2zuf	A	B	43.66	21.83	34.51
2zxu	A	C	34.44	36.68	28.89	2zzm	A	B	38.70	28.82	32.49
2zzn*	A	C	33.41	34.29	32.30	3a6p	A	DE	16.91	34.64	48.44
3adb	A	C	24.69	35.44	39.87	3adc*	A	C	38.69	35.98	25.33
3add	A	C	24.27	35.13	40.60	3adl	A	BC	12.08	34.83	53.08
3aev*	B	C	59.02	14.72	26.26	3akz	A	E	25.06	30.47	44.47
3am1	A	B	37.53	34.82	27.65	3amt*	A	B	44.91	34.05	21.04
3avu	A	GT	16.19	40.75	43.06	3avw*	A	GT	13.27	36.24	50.49
3avx	A	GT	16.37	36.05	47.58	3avy	A	GT	20.80	32.99	46.21
3boy*	ABC	D	62.63	5.44	31.93	3bsb	B	C	68.91	5.44	25.66
3bsn	A	PT	16.39	40.50	43.11	3bso	A	PT	16.39	39.79	43.82
3bsx	A	C	72.37	4.03	23.60	3bt7*	AB	CD	29.33	30.73	39.94
3bx2*	A	C	69.34	2.42	28.23	3bx3	A	C	73.56	2.04	24.41

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Product Line			Region A			Region B			Region C		
ID	Code	Label	Val1	Val2	Val3	ID	Code	Label	Val1	Val2	Val3
3cul	AB	CD	69.49	12.66	17.84	3cun	AB	CD	67.71	13.35	18.94
3d2s	A	E	85.10	4.17	10.73	3dd2*	H	B	37.70	42.50	19.80
3dh3*	AB	EF	28.00	35.91	36.09	3egz	A	B	62.32	19.17	18.52
3eph*	A	E	31.04	39.25	29.71	3eqt*	AB	CD	23.59	38.11	38.30
3ex7	ABCD	F	28.48	35.45	36.08	3fmt	A	C	29.77	35.31	34.92
3foz*	B	D	38.25	33.35	28.40	3ftf*	A	CD	3.53	46.51	49.97
3g0h	A	E	31.56	33.66	34.78	3g8t	B	FQ	52.41	18.84	28.75
3g9c	B	FQ	53.51	20.13	26.36	3h5x*	A	PT	16.18	39.65	44.17
3h5y	A	PT	15.67	40.50	43.84	3hax	ACD	EF	30.09	35.74	34.17
3hhn	B	C	62.27	17.24	20.49	3hjwt	ABC	DE	32.16	32.98	34.86
3i5x	A	B	31.44	31.06	37.50	3i5y	A	B	32.14	32.42	35.44
3i6l	A	B	32.33	31.10	36.57	3i62	A	B	30.94	31.26	37.80
3iab*	AB	R	58.17	23.39	18.44	3ice	ABCDEFGF	G	22.40	35.17	42.42
3iev*	A	D	61.22	10.57	28.21	3irw	P	R	58.12	19.96	21.92
3k49*	A	B	73.50	5.01	21.48	3k5q	A	B	65.56	7.53	26.91
3k5y	A	B	69.71	3.19	27.10	3k5z	A	B	66.61	6.14	27.25
3k6l	A	B	65.23	6.29	28.48	3k62	A	B	67.03	5.01	27.95
3k64	A	B	66.21	6.00	27.80	3kfu	ABCDEFGHJ	KLMN	37.96	29.95	32.09
3klv	A	BC	20.44	33.71	45.85	3kms	A	BC	17.70	35.23	47.07
3kna	A	BC	20.71	33.86	45.44	3koa	A	BC	12.45	41.45	46.09
3ks8	AC	EF	16.99	36.33	46.68	3l25	ABDE	CF	18.09	34.84	47.06
3l26	AB	C	21.13	41.31	37.56	3l3c	B	FQ	52.70	21.61	25.69
3lqx	A	B	37.60	14.25	48.15	3lm	AB	CD	19.62	50.70	29.68
3lrr	A	C	20.33	46.20	33.47	3lwo	ABC	DE	33.60	30.76	35.64
3lwp	ABC	DE	32.53	32.87	34.60	3lwq*	ABC	DE	33.47	31.22	35.31
3lwr	ABC	DE	33.69	31.07	35.23	3lww	ABC	DE	33.90	30.99	35.11
3m7n	ABCDEFGH	XYZ	32.15	30.90	36.95	3m85	ABCDEFGH	XYZ	29.84	36.92	33.24
3mdg*	A	C	62.62	13.08	24.30	3mdi	AB	C	57.41	14.70	27.89
3mj0	A	B	34.50	35.70	29.80	3moj*	B	A	52.00	28.28	19.71
3mqk	A	DE	35.18	31.65	33.17	3mum	P	R	63.29	15.69	21.02
3mur	P	R	58.32	19.68	22.00	3mut	P	R	62.56	18.38	19.06
3mxh	P	R	60.72	17.17	22.12	3ncu	AB	CD	25.72	46.71	27.56
3ndb	AB	M	27.55	35.46	37.00	3nl0*	A	BC	14.34	37.62	48.04
3nmr	A	B	64.76	13.72	21.52	3nmu	AGF	DI	45.35	28.59	26.06
3nna	A	B	66.25	12.19	21.56	3nnc*	A	B	70.12	10.36	19.51
3nnh	AC	E	64.38	10.50	25.12	3nvi*	AB	E	43.73	29.98	26.29
3o3i*	X	A	34.70	24.67	40.63	3o6e	X	A	38.13	17.17	44.70
3o7v	X	A	39.60	15.39	45.01	3o8c*	A	C	33.18	36.82	29.99
3o8r	A	BC	33.78	34.28	31.94	3og8	AB	CD	21.59	48.81	29.61
3oij	AB	CD	50.09	16.31	33.60	3oin	AB	C	48.59	16.76	34.65
3ol6	A	BC	19.66	34.75	45.59	3ol7	A	BC	20.32	34.02	45.66
3ol8	A	BC	20.23	33.85	45.92	3ol9	A	B	26.38	29.94	43.68
3ola	A	BC	19.05	34.74	46.21	3olb	A	BC	19.63	34.65	45.71
3ouy	A	C	26.35	31.33	42.32	3ov7	AB	CD	24.42	33.02	42.56

ID	Category	Sub-Category	Value 1	Value 2	Value 3	Value 4	Category	Sub-Category	Value 5	Value 6	Value 7
3ova	A	C	23.72	35.91	40.36	3ovb	A	C	29.57	29.09	41.34
3ovs	A	C	25.74	32.75	41.51	3pew	A	B	26.75	37.80	35.45
3pey	A	B	29.92	36.41	33.67	3pf4	B	R	40.01	4.68	55.30
3q0n	A	C	72.26	2.29	25.45	3q0o	A	C	74.39	1.21	24.40
3q0q	A	B	71.28	5.75	22.97	3q0r	A	B	70.80	5.69	23.51
3q0s	A	B	71.68	1.69	26.63	3qg9	A	B	71.05	4.63	24.32
3qgb	A	B	71.42	2.18	26.40	3qgc	A	B	70.19	2.96	26.86
3qjj*	A	Q	71.29	11.81	16.89	3qjl	AB	XR	64.04	16.79	19.17
3qrp	A	BC	42.11	38.14	19.76	3r2c*	A	R	74.36	5.74	19.92
3r2d*	ABJK	RS	6.64	45.12	48.23	3r9w*	A	B	60.11	16.03	23.85
3r9x	AB	C	49.97	23.99	26.04	3rc8*	A	E	25.71	44.70	29.59
3rer	ABCDEF	K	49.73	17.70	32.57	3rw6*	AB	FH	30.65	32.84	36.51
3siu	AB	C	53.05	29.49	17.46	3sn2	A	B	37.04	28.12	34.84
3snp*	AB	CD	37.93	28.81	33.25	3sqw	A	B	16.39	44.71	38.90
3t5n*	A	C	37.36	37.37	25.27	3t5q	A	C	42.22	35.61	22.17
3tmi*	A	BC	7.95	43.49	48.56	3trz	AB	UV	71.79	7.85	20.36
3ts0	AB	UV	70.14	10.86	19.00	3ts2*	AB	UV	75.11	5.25	19.64
3u4m	A	B	10.71	40.02	49.27	3u56	A	B	8.72	44.05	47.22
3ucu	P	AR	57.85	19.42	22.73	3ucz	P	R	60.83	18.40	20.77
3ud4	P	R	59.91	19.15	20.94	3umy	A	B	11.67	43.44	44.89
3v6y	A	B	70.09	7.02	22.90	3v71*	A	B	62.42	9.47	28.11
3v74*	A	B	72.59	4.14	23.27	3v7e*	A	C	67.69	20.66	11.65
3vjr*	A	B	13.44	36.26	50.30	3vnv	A	GT	14.99	33.05	51.96
3vyy*	AB	CDEF	7.27	34.75	57.98	3wbn*	ABCD	XY	8.68	55.34	35.98
3zc0*	AB	M	4.44	66.17	29.39	3zd6	A	CD	11.69	46.72	41.59
3zd7	A	CD	11.21	36.94	51.85	3zgz	A	B	30.46	30.46	39.08
3zjt	A	B	26.21	28.65	45.15	3zju	A	B	28.71	27.55	43.74
3zjv	A	B	32.28	25.71	42.01	4al5	A	B	39.56	42.09	18.35
4al6	A	B	40.81	43.12	16.07	4am3	ABC	E	57.42	15.38	27.19
4aq7	A	B	30.06	30.47	39.47	4arc*	A	B	30.85	31.78	37.37
4ari	A	B	26.67	31.68	41.66	4as1	A	B	31.80	27.50	40.70
4ato*	A	G	46.79	32.40	20.81	4ay2	A	C	9.98	44.86	45.16
4b3g	A	G	42.45	29.09	28.47	4bpb	A	CD	10.36	43.21	46.43
4bw0	B	A	52.86	30.99	16.14	4c4w	A	D	62.00	20.20	17.80
4c7o*	BD	E	31.61	22.33	46.06	4c8z	A	C	40.48	32.68	26.84
4c9d	A	C	48.12	26.56	25.31	4e78*	A	PT	11.44	35.63	52.92
4e7a	A	PT	13.67	38.72	47.62	4ed5*	A	D	62.37	14.32	23.31
4erd*	AB	CD	58.40	20.83	20.77	4f3t*	A	R	30.86	34.35	34.78
4fvu*	A	BC	19.67	34.31	46.01	4gcw	A	B	25.97	35.83	38.19
4gha*	ACEG	IJ	1.70	34.98	63.32	4ghl	CD	EF	1.83	35.61	62.56
4h5p*	AB	E	48.03	26.40	25.57	4ifd	ABCDEFGHIJK	R	29.00	29.95	41.05
4ig8*	A	BC	7.05	35.42	57.52	4ill*	AB	CR	49.01	27.07	23.92
4iqx	A	BC	18.22	35.03	46.76	4j1g	ABCD	E	42.92	26.20	30.88
4j39	A	B	16.76	38.39	44.86	4j5v	A	B	17.60	37.34	45.06

4jgn	A	E	19.97	40.27	39.76	4jk0	D	B	22.34	36.93	40.73
4jng*	ABCD	L	42.87	24.36	32.76	4jnx	AD	BG	28.64	26.85	44.52
4jvy*	A	D	56.82	10.91	32.27	4jxx	A	B	35.97	26.63	37.40
4jxz	A	B	34.68	27.33	37.99	4jyz	A	B	33.31	27.67	39.01
4k4s	AE	BCFG	18.45	34.99	46.56	4k4t*	A	BC	18.81	34.02	47.16
4k4u	A	BC	18.68	32.49	48.83	4k4v	A	BC	17.90	35.70	46.40
4k4w	A	BC	20.07	33.45	46.48	4k4x	A	BC	20.30	32.48	47.23
4k4y	A	BC	19.15	34.70	46.15	4k4z	A	BC	20.13	34.29	45.59
4k50*	A	BC	20.21	32.07	47.72	4knq	A	B	18.70	39.63	41.67
4kq0	AD	BE	14.69	37.12	48.19	4kr6*	AB	CD	34.21	23.88	41.91
4kre	A	R	29.91	34.26	35.83	4krf	A	R	31.72	35.40	32.88
4kxt	A	B	28.15	36.66	35.19	4kzd	HL	R	54.08	26.01	19.91
4kze	HL	R	54.48	26.24	19.28	4l8h	AB	R	35.53	39.62	24.85
4l8r	E	D	35.93	35.59	28.49	4lg2	B	EF	32.94	41.34	25.72
4lgt*	A	E	40.74	29.78	29.48	4lmz	A	B	56.26	16.30	27.44
4m2z	AB	CD	8.76	28.91	62.33	4m30	AB	CD	7.64	28.66	63.70
4m59*	AB	CD	43.93	18.34	37.72	4m7a	ABCDEFG	P	67.92	10.62	21.46
4m7d	ABCDEFG	P	68.48	9.91	21.60	4mdx*	AB	C	63.76	14.47	21.77
4n0t*	A	B	54.87	17.46	27.67	4n2q	A	B	40.84	34.94	24.22
4ngb	A	B	39.53	38.53	21.94	4ngc*	A	B	36.47	39.98	23.54
4ngd	A	B	38.75	38.65	22.60	4ngg	A	B	34.44	29.47	36.09
4nh3	A	B	41.76	36.03	22.21	4nh5	A	B	44.42	30.88	24.69
4nh6	A	B	43.53	33.94	22.53	4o26	AB	EF	34.60	28.24	37.15
4o8j	A	E	38.76	35.16	26.08	4oe1	AB	DC	43.93	18.42	37.65
4ola	A	B	25.98	39.20	34.82	4olb	A	B	26.26	38.65	35.09
4oog*	C	D	23.01	30.55	46.44						

* The 137 non-redundant complexes are marked with an asterisk(*)

Table S2. Detailed information of 137 protein-RNA complexes including the final data and all of properties.

Chain id: Chain ids in the PDB entry.

Res(Å): Resolution of the X-ray structure.

RNA type: We only considered the four common types of RNA, ssRNA, dsRNA, tRNA and rRNA, respectively, mRNA was classified as ssRNA in our study.

PISA(kcal/Mol): The solvation free energy gain upon formation of the interface.

B(Å²): Interface area.

Surface area B ratio (%): The ratio of the interface area to the rest of the surface area.

N_atoms: Number of interface atoms.

N_residues/N_nucleotides: Number of interface amino acid residues and interface nucleotides.

N_hb: Number of H-bonds between amino acids and nucleotides at the protein-RNA interface.

P_e(%): Percent-overlap between the largest electrostatic positive patches on protein surfaces and the binding interface.

EEL(kcal/mol): Electrostatic energy.

N_stacking: Number of stacking interactions at protein-RNA interface.

N_vdw: Number of van der waals contacts.

N_hp: Number of hydrophobic interactions.

P_hp(%): Percentage of hydrophobic interface in total binding interface.

	Chain id		Res(Å)	RNA type	PISA	B(Å ²)			Surface area B ratio (%)			N_atoms			N_residues /		N_hb	P_e(%)	EEL	N_stacking	N_vdw	N_hp	P_hp(%)
	Pro	RNA				All	Pro	RNA	All	Pro	RNA	All	Pro	RNA	Pro	RNA							
High																							
1B7F	A	P	2.6	Miscellaneous	-21.7	2937	1339.2	1597.8	28.1	13.4	46.7	320	173	147	48	10	24	96	-2112.2	5	189	379	79
1E7K	A	C	2.9	sRNA	-8.3	1299.9	620.5	679.4	14.5	8.7	21.7	148	68	80	19	9	15	74	-2061.8	0	88	99	74
1EC6	A	D	2.4	ssRNA	-8	1854	905.9	948	22.4	15.4	22.3	205	97	108	30	13	13	83	-2247.3	1	95	166	67
1GTF	LMNOPQRST	W	1.75	mRNA	-20.2	7913	3590.6	4322.4	25.5	14	32.6	901	462	439	162	39	71	38	851.8	9	384	949	51
1KQ2	ABHIKM	R	2.71	rRNA	-33.6	3025.6	1353.6	1671.9	17.8	7.6	76.2	320	190	130	44	7	22	39	-185.0	5	182	414	84
1M8V	ABCDEFGH	OPQRSTU	2.6	Miscellaneous	-10	6572.7	2984	3588.7	19.5	10	34.8	734	379	355	111	27	87	18	-3751.3	14	208	475	28
1M8W	A	C	2.2	mRNA	-2.7	2109.8	946.5	1163.3	12.3	5.7	43.5	217	113	104	38	7	11	0	-402.2	10	149	255	71
1SDS	A	D	1.8	mRNA	-9	851.7	369.4	482.4	10	6.4	13.3	89	40	49	16	4	9	25	-120.8	0	51	91	94
2A8V	B	E	2.4	ssRNA	-2.2	719.2	281.1	438.1	8.6	3.9	23.1	88	52	36	16	4	8	25	64.7	2	32	117	63
2ATW	A	B	2.25	dsRNA	-5.9	2574.9	1192.4	1382.5	20	9.8	42	307	152	155	45	11	16	0	-1020.0	0	145	325	91
2G4B	A	B	2.5	rRNA	-8.6	1161.4	542.4	619	10.9	5.6	28.9	134	70	64	20	5	9	30	-197.6	3	46	127	55
2PY9	ABCD	EF	2.56	microRNA	-7.6	3345.6	1606.7	1739	17.8	9.8	30.7	372	179	193	60	19	10	63	-3196.6	-	-	-	-
2QUX	AB	C	2.44	Miscellaneous	0.1	1753.6	800.8	952.7	11.2	6.5	18.9	185	89	96	35	11	21	34	-3122.4	3	105	125	69
2XS2	A	B	1.35	mRNA	-9.8	1298.2	606.3	691.9	19.7	9.9	38.7	159	81	78	22	6	7	57	-758.5	3	70	181	81
3AEV	B	C	2.8	mRNA	-9	2416	1131.3	1284.7	21.7	10.8	41.7	260	133	127	40	11	19	97	-2285.7	1	131	228	75
3BOY	ABC	D	1.7	Miscellaneous	-31.9	4682.6	2082.1	2600.5	20.3	9.6	43.9	587	312	275	92	22	29	7	-	0	305	638	78
3BX2	A	C	2.84	mRNA	-5	2466.8	1097.3	1369.5	15.7	7.2	48.5	249	129	120	42	9	18	0	30.7	10	170	316	71
3IAB	AB	R	2.7	snRNA	-20.8	5064.9	2387.7	2677.2	26.1	16.3	27.2	534	266	268	79	29	30	80	-12294.9	0	50	113	35
3IEV	A	D	1.9	ssRNA	-1.4	2272.6	1013.3	1259.4	14.7	6.9	42	266	139	127	38	9	23	68	-1670.3	2	140	330	82
3K49	A	B	2.5	ssRNA	3.1	3080.8	1380.1	1700.7	17.1	7.7	52	301	155	146	48	10	25	6	40.3	12	226	397	88
3MDG	A	C	2.22	mRNA	-6.8	1068.9	503.2	565.7	9.2	4.6	33.7	128	67	61	23	6	6	56	-232.0	3	52	138	74
3NNC	A	B	2.2	ssRNA	-10.3	1145.8	517.8	628	10	4.9	32.1	113	60	53	22	5	4	59	-475.3	2	40	156	77
3QJ	A	Q	2.8	rRNA	-4.1	3190.7	1489.5	1701.2	25.5	12.1	50.6	348	179	169	50	12	26	88	-2163.1	6	180	340	70
3R2C	A	R	1.9	mRNA	-8.7	2209.1	1004.1	1205	27.9	13.1	48.6	249	130	119	36	9	7	36	-1285.9	4	948	321	81
3R9W	A	B	2.05	mRNA	-8.8	2717.1	1236	1481	13.7	8.6	18.3	306	152	154	44	15	23	75	-3861.7	2	141	324	82
3TS2	AB	UV	2.01	mRNA	-14.6	6881.8	3266.4	3615.4	32.1	19.4	31.3	764	372	392	90	37	50	81	-9012.5	22	375	982	80
3V71	A	B	2.9	rRNA	-10.8	1951.9	875.6	1076.3	10.9	4.9	50.9	202	106	96	30	7	17	75	-317.7	6	142	249	87
3V74	A	B	2.3	mRNA	-3.3	3038.1	1366.2	1672	15.7	7.2	49.8	312	161	151	47	11	24	17	-772.3	12	192	386	87
3V7E	A	C	2.8	mRNA	-10	873.8	404.7	469.1	3.6	9.8	2.3	98	38	60	16	6	4	0	-4086.2	0	37	82	88
4ED5	A	D	2	Miscellaneous	-17.9	2516.6	1181.8	1334.8	25.6	11.9	55.4	272	147	125	43	10	23	91	-1579.7	4	152	314	81
4ERD	AB	CD	2.59	mRNA	-10	3279.6	1589.8	1689.8	15.8	10.1	20.1	373	180	193	45	18	9	69	-6427.5	0	13	16	6
4JVY	A	D	2.85	Miscellaneous	-3.2	1665.1	806.8	858.4	13.4	6.6	45.5	180	86	94	28	7	8	89	-597.1	1	109	171	82
4MDX	AB	C	1.5	Miscellaneous	-8.7	2126.7	958.2	1168.5	18.9	8.9	44.7	207	125	82	41	7	14	0	32.1	1	120	248	96
Medium																							
1ASZ	A	R	3	tRNA	-31.9	3865.6	1837.4	2028.2	11.7	7.6	15.8	443	221	222	71	29	23	2	2042.6	0	100	113	28
1EFW	A	C	3	tRNA	-12.8	2044.7	1005	1039.7	5.2	3.4	8.8	237	119	118	39	19	16	43	1224.1	0	19	12	5
1F7U	A	B	2.2	tRNA	-30.6	5135.4	2386.2	2749.2	14.1	8.5	20.4	562	303	259	90	35	33	23	-636.0	0	77	119	19
1GAX	A	C	2.9	tRNA	-27.2	5171.9	2501.7	2670.3	11.4	6.6	20.6	605	308	297	100	40	24	1	5384.4	1	316	376	53
1GTR	A	B	2.5	dsRNA	-31	5318.4	2513.5	2804.9	16.8	10.5	21.5	580	288	292	83	34	52	37	3442.9	0	362	391	70

1H3E	A	B	2.9	tRNA	-22.8	2223.8	1087.9	1135.9	7.1	5.5	8.4	263	136	127	43	23	0	5	-	0	9	16	7
1IL2	A	C	2.6	Miscellaneous	-28	4085.8	1983.7	2102.2	11	6.9	16.6	449	228	221	72	27	40	1	4097.4	1	163	105	29
1OOA	A	C	2.45	tRNA	-17.1	1909.3	996.5	912.8	9.3	5.9	16.8	217	98	119	28	19	20	54	-2651.5	3	78	108	57
1Q2R	ABCD	EF	2.9	vRNA	-18.5	6034.4	2841.3	3193.1	11	5.4	39.8	626	325	301	103	32	30	60	-7793.2	0	430	472	61
1QF6	A	B	2.9	snRNA	-29.3	4228.5	2079	2149	10.8	6.8	16.5	459	223	236	70	27	28	14	5924.2	2	106	156	37
1U0B	B	A	2.3	Miscellaneous	-27	4557.2	2150.9	2406.3	16.1	10.6	19.2	526	276	250	85	32	25	15	-	2	254	339	66
1YTU	A	CD	2.5	mRNA	-13.1	1851.6	800.2	1051.4	9.4	4.1	47.2	213	120	93	32	7	14	97	-1174.4	0	56	29	16
1ZBH	AD	EF	3	crRNA	-32.7	3470.7	1744.5	1726.2	10.7	5.9	27.2	383	185	198	53	24	16	43	-5873.2	2	211	215	57
1ZL3	A	B	2.8	dsRNA	-17.9	2547.9	1207.3	1340.6	15.2	8	31.6	279	141	138	44	12	22	89	-850.0	1	134	128	55
2AB4	A	B	2.4	tRNA	-18	2557.2	1236.1	1321.1	15.4	8.1	34.4	289	149	140	44	12	18	91	-3446.7	1	134	150	50
2AZX	A	C	2.8	tRNA	-10.2	1363.2	648.2	715	4.8	3.7	5.9	156	82	74	23	12	12	4	2043.4	-	-	-	-
2BH2	A	C	2.15	tRNA	-14.5	4042.5	1978.9	2063.6	18.9	10.3	33.4	436	224	212	70	24	36	83	-2537.9	4	206	288	50
2BX2	L	R	2.85	tRNA	-10.3	912.2	419	493.2	3.1	1.6	13.4	94	50	44	20	4	5	100	-	0	67	67	50
2CSX	A	C	2.7	tRNA	-12.7	2182.3	1040.6	1141.8	7	5	8.9	260	129	131	40	22	15	20	-3755.6	3	152	206	53
2CV0	A	C	2.4	Miscellaneous	-34.2	4517	2117.3	2399.8	15.1	9.8	18.8	506	265	241	88	33	34	36	-747.7	2	303	329	63
2FK6	A	R	2.9	tRNA	-9.5	1531.1	750.6	780.5	6.9	5.2	8.5	194	91	103	23	17	9	35	1312.6	0	90	122	70
2FMT	A	C	2.8	rRNA	-19.2	2940.7	1498.5	1442.2	11.5	9.8	11	319	151	168	43	25	24	26	-2010.8	1	122	154	56
2GIC	ABCDE	R	2.92	piRNA	-76.8	10344.6	5098.9	5245.7	10.6	5.2	48.5	1150	579	571	185	45	61	79	-6111.6	5	731	668	45
2I82	AB	EF	2.05	Miscellaneous	-26.9	5812	2852.2	2959.8	23.2	12.6	36.1	615	329	286	86	26	26	93	-6584.1	-	-	-	-
2I91	A	CD	2.65	Miscellaneous	-29.4	3893.6	1856.5	2037.1	16.4	8	44.6	432	221	211	65	17	31	94	-3919.1	2	297	251	63
2OZB	AB	C	2.6	mRNA	-26.5	2569	1261.3	1307.8	11	6.4	21.1	272	126	146	42	17	20	71	-3058.0	1	148	200	63
2R8S	HL	R	1.95	mRNA	-25.2	2509.9	1193.6	1316.2	6	6.3	5.1	271	128	133	42	27	24	17	-8204.8	0	162	204	74
2XDB	A	G	2.55	ssRNA	-20	1882.8	875	1007.8	13.6	9.9	14.8	210	105	105	34	11	12	79	-3026.9	1	88	158	53
2XZO	A	D	2.4	Miscellaneous	-30.7	2005.8	937.1	1068.7	7.4	3.4	65.6	209	114	95	42	7	18	83	-	0	127	163	62
2Y8Y	A	B	1.44	Miscellaneous	-19.9	2167.1	1065.7	1101.4	16.7	9.7	26.7	234	118	116	35	16	17	100	-4021.5	0	32	45	23
2ZI0	AB	CD	2.82	microRNA	-44.9	4573.3	2340.1	2233.2	31	19.4	30.7	470	208	262	54	39	43	95	-	5	321	209	54
2ZUE	A	B	2	ssRNA	-21.5	4591.6	2226	2365.6	12.2	7.6	18.4	509	249	260	76	39	25	6	2992.4	0	276	364	61
2ZZN	A	C	2.95	Miscellaneous	-27.3	4361.2	2162.4	2198.8	16.5	11.8	17.7	478	238	240	71	35	31	92	-14109.7	0	271	310	55
3ADC	A	C	2.9	Miscellaneous	-26.6	3386.9	1733.5	1653.4	12	10.4	11	371	176	195	52	32	24	46	-10474.6	-	-	-	-
3AMT	A	B	2.9	tRNA	-17.2	3818.9	1826.2	1992.7	12.4	8.7	14.5	410	219	191	64	26	29	28	-	-	-	-	-
3BT7	AB	CD	2.43	rRNA	-32.3	3593.8	1646.3	1947.5	9.7	4.9	28.2	418	239	179	68	21	19	74	225.0	2	260	210	64
3DD2	H	B	1.9	ssRNA	-7.9	1508.3	718.5	789.9	10.1	5.8	19.5	159	77	82	23	11	13	87	-2068.3	-	-	-	-
3DH3	AB	EF	3	snRNA	-34.9	6061.2	3057.4	3003.8	21.5	11.7	36.6	661	335	326	96	35	42	90	-	2	116	79	13
3EPH	A	E	2.95	siRNA	-37.7	4814.4	2297.4	2517.1	16.9	10.7	21.5	516	273	243	79	27	41	96	-11470.2	4	376	365	56
3FOZ	B	D	2.5	tRNA	-25.8	4175.8	2077.7	2098.1	13.3	17.5	17.9	422	220	202	64	19	33	72	623.9	2	293	296	67
3LWQ	ABC	DE	2.68	tRNA	-29.7	5251.9	2527.7	2724.1	17.2	11.3	20.6	569	263	306	84	39	40	40	-4166.8	1	305	416	72
3MOJ	B	A	2.9	tRNA	-9.5	1758.4	856.7	901.7	11	18.7	6.9	204	86	118	26	15	12	69	-7871.8	2	102	143	73
3NVI	AB	E	2.71	Miscellaneous	-33.5	3782.5	1836.4	1946.1	18.9	9.7	40.3	395	185	210	58	23	36	84	-3223.6	1	241	293	74
3O3I	X	A	2.8	tRNA	-10.2	923	404.6	518.3	10.1	6.1	15.2	104	59	45	19	5	19	26	-	0	74	88	74
3O8C	A	C	2	tRNA	-17.2	1811.8	850.7	961.1	6.7	3.1	61.7	187	108	79	34	5	11	23	-278.2	1	94	116	47
3RC8	A	E	2.9	mRNA	-12.9	1470.6	668.1	802.5	5	2.3	57.3	166	91	75	30	6	11	0	-6.8	0	114	83	50
3RW6	AB	FH	2.3	Miscellaneous	-18.4	5338.1	2605	2733	12.5	9.5	13.3	594	285	309	89	56	7	45	-11132.6	3	244	443	61
3SNP	AB	CD	2.8	rRNA	-25.6	5698.8	2691.2	3007.7	7.8	4	27.2	644	343	301	120	37	29	13	-4964.8	0	363	408	58
3T5N	A	C	1.79	tRNA	-11.4	1909.5	857.1	1052.5	14.5	6.4	62.1	209	121	88	38	6	20	100	-1024.7	3	192	174	55

4ARC	A	B	2	tRNA	-32	4602.9	2216.6	2386.2	10.1	5.9	18.7	514	259	255	77	33	24	3	7959.2	1	201	265	47
4ATO	A	G	2.2	tRNA	-12.4	2264	1103.4	1160.6	16.3	11.3	18.2	244	119	125	33	12	26	88	-2527.0	2	160	181	73
4C7O	BD	E	2.6	rRNA	-12.5	2554.3	1194.4	1359.9	8	4.6	15.7	296	147	149	41	22	9	5	2699.3	2	190	246	73
4F3T	A	R	2.25	tRNA	-34.4	4012.3	1766.3	2246	10.5	4.6	59.5	420	232	188	79	14	39	96	-7116.6	1	333	352	63
4H5P	AB	E	2.15	tRNA	-59.4	4482.1	2172.3	2309.8	18.6	8.6	66.3	464	253	211	76	14	25	97	-4439.8	2	284	449	57
4ILL	AB	CR	2.48	crRNA	-37.3	7074.1	3270.8	3803.2	25.7	12.8	42.4	757	385	372	114	33	61	83	-	1	437	607	67
4JNG	ABCD	L	2.12	Miscellaneous	-131.2	11308.9	5548.5	5760.4	25.6	12.2	58.9	1208	624	584	172	42	69	89	-15264.6	11	594	1006	61
4KR6	AB	CD	2.85	Miscellaneous	-22.1	5756	2751.9	3004.1	13.7	8.5	19.6	652	321	331	98	44	33	39	-14237.3	0	363	420	64
4LGT	A	E	1.3	Miscellaneous	-28	3375.5	1680.9	1694.6	23.5	12.6	38.1	370	184	186	52	17	32	77	-2633.6	0	38	1	2
4M59	AB	CD	2.46	tRNA	-56	7841.6	3664.4	4177.2	12.4	5.9	50.7	871	456	415	156	30	25	39	-	6	428	730	60
4N0T	A	B	1.7	tRNA	-19.9	5505.8	2648.8	2857	19.6	12.9	21.9	617	310	307	79	30	0	67	-11090.9	8	352	671	72
4NGC	A	B	2.1	Miscellaneous	-12.2	1021.1	440.3	580.8	6	2.9	19.4	123	71	52	27	7	0	96	-1132.5	1	96	118	56
Low																							
1DFU	P	MN	1.8	rRNA	-20.2	1687.9	828.2	859.7	19.5	11.8	17.2	172	84	88	26	19	19	73	-3741.2	0	86	78	54
1DI2	AB	CDEG	1.9	rRNA	-23.9	2255.6	1178.4	1077.3	14	12	14.8	237	107	130	32	22	9	97	-4985.1	0	149	139	60
1F7Y	A	B	2.8	tRNA	-27.6	2426.6	1220.2	1206.5	13.3	13.2	15.3	265	130	135	33	22	19	67	-6690.5	-	-	-	-
1G1X	ABC	DE	2.6	ssRNA	-45.4	4944.1	2426.4	2517.7	16.2	17.9	20.5	546	270	276	70	47	35	61	-18347.4	1	252	223	58
1I6U	A	C	2.6	Miscellaneous	-11.6	1801.5	885.1	916.4	11.6	14	14.6	213	106	107	30	19	16	90	-6090.4	0	20	27	17
1IID	A	B	1.8	crRNA	-13.6	1362.1	665.8	696.4	9.5	13	12.4	142	69	73	25	9	12	100	-4365.2	2	121	56	40
1L9A	A	B	2.9	dsRNA	-25.8	2210.2	1074.4	1135.7	18.5	5.3	8.8	236	107	129	27	21	22	96	-13982.7	0	185	126	63
1MJI	AB	CD	2.5	dsRNA	-36.6	5602.4	2776.6	2825.8	13	24.4	20.5	611	289	322	81	47	37	73	-16485.6	0	23	28	7
1MZP	A	B	2.65	dsRNA	-26.5	2883.3	1474	1409.4	12.5	15.6	16	296	139	157	37	26	31	97	-14273.9	0	11	3	5
1N35	A	BC	2.5	dsRNA	-31.6	3243.9	1557.6	1686.3	3.3	55.3	6.9	355	189	166	71	13	17	93	-1922.5	0	200	183	49
1QU3	A	T	2.9	dsRNA	-36.9	4847.5	2468.5	2379	6.3	18.7	10.2	543	270	273	72	37	32	18	18109.1	0	350	346	65
1RPU	AB	CD	2.5	dsRNA	-36	3917.8	1877.5	2040.4	13.1	24.6	21	433	214	219	66	27	40	-	-5572.0	2	218	254	59
1S03	H	A	2.7	dsRNA	-16	1743.1	847.8	895.3	11.1	10.4	12	204	101	103	29	16	10	86	-4105.7	0	110	133	72
1SER	AB	T	2.9	tRNA	-18.7	2259	1121.3	1137.7	3.4	10.3	5.4	265	126	139	40	17	11	20	-	0	66	70	30
1WSU	ABC	EFG	2.3	dsRNA	-32.2	2631.4	1283.2	1348.3	5.1	11.4	7.6	268	125	143	39	18	27	46	-4986.2	2	214	123	51
1Y39	A	C	2.8	Miscellaneous	-18.1	1988.8	993.1	995.7	19.4	12.1	17.6	212	97	115	30	19	16	83	-3276.1	0	192	189	87
2AZ2	AB	CD	2.6	dsRNA	-20.6	2043	976	1067	12.7	15.9	16.6	214	115	99	30	14	13	17	-1657.3	0	18	20	13
2BTE	A	B	2.9	Miscellaneous	-28.1	3430.9	1689.3	1741.6	4.3	12.8	7	379	184	195	63	29	21	0	6855.2	0	168	190	46
2HW8	A	B	2.1	dsRNA	-34.4	2334.7	1121.6	1213.1	9.5	18.9	14.6	271	142	129	35	21	16	34	-4690.2	0	17	14	9
2J0S	A	E	2.21	dsRNA	-21.3	1310.4	538.8	771.6	3.1	47.4	7.3	150	79	71	28	6	19	0	-505.5	0	167	97	71
2JLU	A	C	2.04	dsRNA	-17.8	1925.2	846	1079.2	40	64.8	9.2	209	121	88	39	7	14	95	-	0	158	136	67
2V3C	AC	M	2.5	dsRNA	-43.7	5181.3	2547.9	2633.4	9.3	16.9	13.8	592	280	312	82	50	0	54	-19704.8	1	350	321	62
2XLI	A	B	2.33	dsRNA	-11.9	1566.3	830.1	736.2	8.4	25.6	14.1	145	76	69	26	12	16	65	-	2	116	101	35
2ZH9	A	B	2.9	rRNA	-18.8	2425.2	1141.8	1283.4	4.8	21	8.9	275	148	127	42	16	13	21	-2174.3	0	182	198	67
2ZKO	AB	CD	1.7	rRNA	-29	2465.8	1238.1	1227.6	14.3	15.6	17.6	264	128	136	34	20	11	56	-4146.9	0	161	173	65
3AVW	A	GT	2.6	rRNA	-30.3	3382.2	1613.7	1768.4	3	43.3	6.3	374	195	179	73	20	14	7	-	0	182	183	49
3EQT	AB	CD	2	Miscellaneous	-20	2705.3	1215.9	1489.4	7.3	48.1	15.9	285	141	144	48	16	20	81	-4117.2	0	208	253	74
3FTF	A	CD	2.8	rRNA	-19	1693.3	841.6	851.7	6.8	10.8	9.1	179	89	90	28	18	5	96	-5610.3	0	93	77	54
3H5X	A	PT	1.77	rRNA	-35.6	3095.8	1458.2	1637.6	6.7	48.1	13.9	325	179	146	65	16	21	83	-1199.8	0	185	94	14
3NL0	A	BC	2.6	dsRNA	-26.5	2720.6	1238.5	1482	5.9	54.7	12.9	312	169	143	59	13	19	69	479.8	0	235	193	63
3R2D	ABJK	RS	2.2	tRNA	-31.6	2090.3	1014.8	1075.5	4.5	25.9	8.5	224	118	106	40	14	11	90	-6266.9	0	148	77	60

3TMI	A	BC	2.7	siRNA	-32.9	2828.7	1300.5	1528.2	4	33.3	8.2	332	181	151	61	21	14	98	-	1	211	200	56
3VJR	A	B	2.4	tRNA	-12.8	1354.3	689.9	664.3	7.5	10	9.4	144	63	81	20	15	11	55	-1976.3	0	82	75	75
3VYY	AB	CDEF	2.9	mRNA	-35.2	3073.9	1550.1	1523.9	13.3	21.3	19.5	349	168	181	40	25	3	50	-6151.8	0	179	217	68
3WBM	ABCD	XY	2	dsRNA	-31.5	2348.8	1173.5	1175.3	6.5	12.6	9.3	244	115	129	32	23	18	100	-20163.4	0	149	76	51
3ZC0	AB	M	2.98	mRNA	-9.5	814	414.7	399.4	2	12.4	3.6	84	39	45	17	6	0	27	-	0	41	12	15
4E78	A	PT	2.9	mRNA	-15.7	1674.8	783	891.8	3.4	47	7.3	193	108	85	43	8	8	98	-2092.3	0	93	94	44
4FVU	A	BC	2.91	tRNA	-10	1240.1	574.5	665.7	5.2	21.4	9.6	139	72	67	24	9	10	12	-	1	88	96	58
4GHA	ACEG	IJ	2.5	mRNA	-34.5	3690.9	1774	1916.9	7.2	41.8	14.5	395	207	188	71	23	19	65	-7419.2	0	216	240	60
4IG8	A	BC	2.7	Miscellaneous	-22.3	2914	1415.2	1498.8	8.4	22.9	14.3	316	166	150	46	20	23	87	-5071.9	0	126	123	39
4K4T	A	BC	2.75	Miscellaneous	-34.1	3724.2	1758.1	1966.1	8.2	32.8	15.7	426	227	199	72	21	22	78	119.2	0	242	266	58
4K50	A	BC	2.93	dsRNA	-37.1	4061.9	1916.1	2145.7	8.9	23.8	15.4	450	242	208	75	23	24	77	-762.6	0	267	279	64
4OOG	C	D	2.5	Miscellaneous	-26.8	3053.4	1504	1549.4	9.8	23.4	16.1	326	160	166	45	22	5	73	-4854.8	2	200	227	73

Table S3. Numbers of different types of RNAs in three classes.

type	ssRNA	dsRNA	mRNA	tRNA	rRNA	Other	All
High class	6	1	13	0	4	9	33
Medium class	3	2	4	25	4	23	61
Low class	1	17	4	5	7	9	43

Table S4. Detailed information of the AAC and AAP in each class.

Type	Ala	Phe	Gly	Ile	Leu	Met	Pro	Val	Asp	Glu	Lys	Arg	Cys	His	Asn	Gln	Ser	Thr	Trp	Tyr
High																				
AAC	3.62	4.94	7.64	5.86	6.39	1.45	2.96	4.48	4.87	5.33	12.18	10.34	1.053	4.28	5.33	5.13	4.74	3.29	0.00	0.06
AAP	-0.29	0.77	0.04	0.44	0.12	0.20	-0.42	0.19	-0.53	-0.84	0.13	0.42	0.96	0.20	-0.06	-0.03	-0.18	-0.46	0.51	0.84
Medium																				
AAC	5.45	3.37	5.50	3.34	5.24	1.75	4.61	4.71	4.69	5.14	10.99	13.91	0.81	3.17	6.51	3.60	7.02	5.04	0.01	0.04
AAP	-0.08	0.50	-0.30	0.17	0.01	0.20	-0.21	0.10	-0.55	-0.86	0.07	0.61	0.40	0.38	0.38	-0.37	0.12	-0.04	0.27	0.47
Low																				
AAC	4.42	2.05	7.45	3.49	4.93	1.90	4.52	4.42	5.29	4.88	12.63	13.92	1.18	2.52	4.88	4.16	7.04	6.06	0.01	0.03
AAP	-0.22	-0.16	0.06	0.17	-0.11	0.24	-0.30	-0.02	-0.38	-0.93	0.16	0.54	0.90	0.21	0.09	0.02	0.19	0.19	0.29	0.17

Table S5. Detailed information of the SSC and SSP in each class.

Type	α -helix	β -strand	3_{10} -helix	Turn	coil	Bridge	non-regular ^a
High							
SSC	0.30	0.33	0.06	0.16	0.15	0.00	0.37
SSP	-0.16	0.67	0.67	-0.22	-0.26	-4.47	-0.26
Medium							
SSC	0.32	0.14	0.06	0.25	0.21	0.02	0.54
SSP	-0.16	0.14	0.48	0.09	-0.07	0.48	0.07
Low							
SSC	0.36	0.17	0.04	0.20	0.21	0.01	0.47
SSP	-0.05	0.35	0.01	-0.11	-0.07	0.45	-0.07

^a 3_{10} -helix, turn, coil and bridge are together deemed as the non-regular regions.

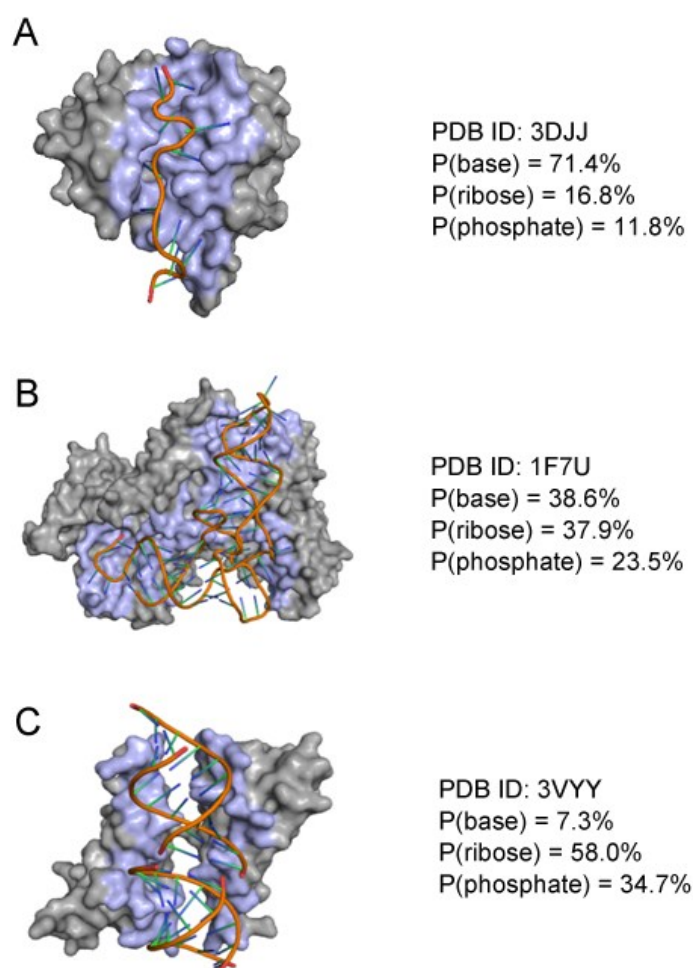


Figure S1. The 3D structures of three representative complexes in High, Medium and Low class, respectively. The protein interface region is colored lightblue.