

Table S2. Summary of model building statistics for the human mature ED and late ED pre-B complexes.

		Molecule	Length	Domain/Region	PDB code	Modeling	Resolution (Å)	Chain ID
		Human/ <i>S.pombe</i> / <i>S.cere</i>						
U5 snRNP	Mature & Late	U5 snRNA	117	4:117	6AH0	DR	2.8~5.0	5A
		PRP8/ <i>Spp42</i> / <i>Prp8</i>	2335	25:51/58:663/675:2016/2067:2335		DR	2.8~5.0	5B
		SNU114/ <i>Cwf10</i> / <i>Snu114</i>	972	105:956		DR	2.8~5.0	5C
		BRR2	2136	36:223/405:2125		DR	2.8~5.0	5D
		U5-40K/ <i>Cwf17</i> /-	357	WD40 domain		RD	8.0~10.0	5E
		SmB,D1,D2,D3,E,F,G	-	Sm fold		RD	4.0~10.0	5a-g
U6 snRNP	Mature & Late	U6 snRNA	107 nt	31:36/47:78/85:105 36:78/85:105	6AH0 & 6QX9	DR HM	2.8~6.0	6A
		Lsm2-8	-	Sm fold	6QX9	RD	20.0~30.0	6a-g
U4 snRNP	Mature & Late	U4 snRNA	144 nt	1:145	6AH0 & 6QX9	HM RD	2.8~8.0 5.0~8.0	4A 4a-g
		SmB,D1,D2,D3,E,F,G	-	Sm fold	6QX9			
Tri-snRNP Core proteins	Mature & Late	PRP3	683	Ferredoxin-like domain	6AH0 & 6QX9	RD	4.0~8.0	4B
		PRP4/ <i>Cwf3</i> / <i>Syfl</i>	522	WD40 domain		RD	4.0~8.0	4C
		PRP31/ <i>Cwf7</i> / <i>Snt309</i>	499	Nop domain 52:432		RD	4.0~8.0	4D
		SNU13/ <i>Cdc5</i> / <i>Cef1</i>	128	5:128		RD	4.0~8.0	4E
		DIM1/ <i>Dim1</i> / <i>Dib1</i>	142	Thioredoxin-like		DR	2.8~3.0	4F
		PRP6/ <i>Cwf4</i> / <i>Cif1</i>	941	NTD; TPR repeat		RD	2.8~8.0	4G
		SNU66	800	699:774		DR	3.5~5.0	4S
Pre-B specific proteins	Mature & Late	RBM42/-/-	480	RRM domain	6QX9	DR	3.5~5.0	4R
		USP39/ <i>Sad1</i> / <i>Sad1</i>	565	103:565		DR	4.0~8.0	4T
		U4/U6.U5-27K/-/-	155	131:151		DR	3.5~5.0	4X
		PRP4 kinase/-/ <i>Prp4</i> kinase	1007	Kinase domain		RD	20.0~30.0	4Y
	Mature & Late	DDX23/ <i>Prp28</i> / <i>Prp28</i>	820	N-plug/Catalytic domain N-plug		DR	2.8~5.0	4U
U2 snRNP	Mature & Late	U2 RNA	188 nt	1:47/54:184	6AH0 & 6QX9	RD	20.0~30.0	2A
		U2-A'/ <i>Lea1</i> / <i>Lea1</i>	255	LRR domain		RD	20.0~30.0	2B
		U2-B''/ <i>Msl1</i> / <i>Msl1</i>	225	RRM domain		RD	20.0~30.0	2C
		SmB,D1,D2,D3,E,F,G	-	Sm fold		RD	20.0~30.0	2a-g
	Mature & Late	SF3a120/ <i>Sap114</i> / <i>Prp21</i>	793	160:285 160:285/455:488/499:503		RD HM	3.0~30.0	2D
		SF3a66/ <i>Sap62</i> / <i>Prp11</i>	464	92:233		RD	20.0~30.0	2E
		SF3a60/ <i>Sap61</i> / <i>Ptp9</i>	501	1:374/390:463		RD	20.0~30.0	2F
		SF3b155/ <i>Sap155</i> / <i>Hsh155</i>	1304	HEAT repeat		RD	20.0~30.0	2G
		SF3b145/ <i>Sap145</i> / <i>Cus1</i>	895	461:600/604:692		RD	3.0~30.0	2H
		SF3b130/ <i>Sap130</i> / <i>Rse1</i>	1217	WD40 domain I/II/III		RD	20.0~30.0	2I
		SF3b49/ <i>Sap49</i> / <i>Hsh49</i>	424	RRM domain I/II		RD	20.0~30.0	2J
		SF3b14a/ <i>p14</i> -like/-	125	RRM domain		RD	20.0~30.0	2K
		SF3b14b/ <i>Ini1</i> / <i>Rds3</i>	110	PHF5 domain		RD	20.0~30.0	2L
		SF3b10/ <i>SF3b10</i> / <i>Ysf3</i>	86	15:80		RD	20.0~30.0	2M
Pre-mRNA	Mature & Late	Pre-mRNA	144 nt	7:48 nt 7:48/103:119 nt	6AH0	RD/HM	3.0~20.0	A
U1 snRNP	Mature & Late	U1 snRNP molecules	-	Attached Released	-	Not modeled	-	-