

**SUPPLEMENTARY TABLE**

Reference	Name*	Organism	Subunit	Mutation	Equivalent on S.C. RNAPII alignment	Equivalent on T.Aq. alignment	Domain Location	Location near	Homology Region	Affected function <sup>o</sup>
Sugaya et al.(2001), Ref. 169	tsTM4	CHO cells, RNA Pol II	Rpb1	P1006S	I983S	L1168S	Foot	-	-	-
Chen et al.(1993), Ref. 37	JH1(C4)	Drosophila, RNA Pol II	Rpl1215	R741H, A657T	R726H, C642T	T1000H, T927I	Fore1, Funnel	-	-	-
Chen et al.(1993), Ref. 37	WJK2	Drosophila, RNA Pol II	Rpl1215	L820F	L805F	R1062F	Funnel	-	F	-
Chen et al.(1993), Ref. 37	C20(C4)	Drosophila, RNA Pol II	Rpl1215	L878F	V863F	V1120F	Cleft	-	F	Amanitin resistance (from C4 mutation)
Chen et al.(1993), Ref. 37	Ubl	Drosophila, RNA Pol II	Rpl1215	D866N	D671N	-	Cleft	-	F	-
Chen et al.(1993), Ref. 37	JG1(Ubl)	Drosophila, RNA Pol II	Rpl1215	D866N, L1383Q	D671N, S1361Q	-, Q1393Q	Cleft	-	F	-
Chen et al.(1993), Ref. 37 Kim et al.(1994), Ref. 88	E28(EMS of C4); 12	Drosophila, RNA Pol II	Rpl1215	A377T	A371T	A649T	Active site	-	C	Amanitin resistance (from C4 mutation)
Chen et al.(1993), Ref. 37; Kim et al.(1994), Ref. 88	WJK1; K1	Drosophila, RNA Pol II	Rpl1215	S678N	S663N	T948N	Fore1	-	-	Low polymerization, Assembly ou synthesis defect (Rpl1215 K1)
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 ts + R3	Drosophila, RNA Pol II	Rpl1215	R977Y	R962Y	-	Foot	-	-	Suppressor of Rpl1215ts thermosensitive phenotype
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 ts + R1/R4	Drosophila, RNA Pol II	Rpl1215	G1324S	P1302S	E1320S	Cleft	-	-	Suppressor of Rpl1215ts thermosensitive phenotype
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 K1 + R4	Drosophila, RNA Pol II	Rpl1215	H713L	Q698L	E979L	Funnel	-	-	Suppressor of Rpl1215 K1 thermosensitive phenotype
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 K1 + R9	Drosophila, RNA Pol II	Rpl1215	G834V	G819V	G1076V	Cleft	Bridge Helix	F	Suppressor of Rpl1215 K1 thermosensitive phenotype
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 K1 + R10	Drosophila, RNA Pol II	Rpl1215	S747L	L732L	A1006L	Funnel	-	-	Suppressor of Rpl1215 K1 thermosensitive phenotype
Krasnoselskaya et al.(1998), Ref. 91	Rpl1215 ts	Drosophila, RNA Pol II	Rpl1215	R977C	R962C	-	Foot	-	-	-
Chen et al.(1993), Ref. 37	Z43	Drosophila, RNA Pol II	Rpl1140	R940H	R963H	R842H	Hybrid Binding	-	H	-
Chen et al.(1993), Ref. 37	M39	Drosophila, RNA Pol II	Rpl1140	G992E	A1035E	G894E	Hybrid Binding	-	-	-
Chen et al.(1993), Ref. 37	Z19	Drosophila, RNA Pol II	Rpl1140	E1028K	E1070K	V972K	Hybrid Binding	-	I	-
Chen et al.(1993), Ref. 37	A5	Drosophila, RNA Pol II	Rpl1140	Δ1047-1051	Δ1089-1093	Δ991-995	Hybrid Binding	-	I	-
Chen et al.(1993), Ref. 37	Z45	Drosophila, RNA Pol II	Rpl1140	S1098F	A1140F	A1042F	Anchor	-	I	-
Kim et al.(1994), Ref. 88	-	Drosophila, RNA Pol II	Rpl1140	S728C	S771C	D638C	Hybrid Binding	-	-	Suppressor of thermosensitive phenotype of Rpl1215K1(S686N?? S678N)
Kim et al.(1994), Ref. 88	-	Drosophila, RNA Pol II	Rpl1140	M735I	M778I	V645I	Hybrid Binding	-	-	Suppressor of thermosensitive phenotype of Rpl1215-12(A377T) & K1
Kim et al.(1994), Ref. 88	-	Drosophila, RNA Pol II	Rpl1140	M735V	M778V	V645V	Hybrid Binding	-	-	Suppressor of thermosensitive phenotype of Rpl1215-12(A377T) & K1
De la Mata et al.(2003), Ref. 45	C4	Human, RNA Pol II	Rpb1	R749H	R726H	T1000H	Funnel	-	-	Altered alternative splicing favors upstream 5' splicing sites
Jeronimo et al.(2004), Ref. 80	Fork1-11	Human, RNA Pol II	Rpb2	Δ458-459	Δ471-472	-	Fork	Fork1	-	-
Jeronimo et al.(2004), Ref. 80	sw3-1122	Human, RNA Pol II	Rpb2	R1078A, S1079A, R1080A	R1122A, S1123A, R1124A	K1024A, A1025A, Q1026A	Hybrid Binding	Switch3	I	-
Langelier et al.(2005), Ref. 99	MB	Human, RNA Pol II	Rpb2	E791A, D792A	E836A, D837A	E685A, D686A	Hybrid Binding	-	F	Assembly defect
Werner et al.(2002), Ref. 191	-	M.Jannaschii	Beta prime	D466A	D481A	D739A	Active site	-	D	Catalytically dead
Werner et al.(2002), Ref. 191	-	M.Jannaschii	Beta prime	D468A	D483A	D741A	Active site	-	D	Catalytically dead
Werner et al.(2002), Ref. 191	-	M.Jannaschii	Beta prime	D470A	D485A	D743A	Active site	-	D	Catalytically dead
Werner et al.(2002), Ref. 191	-	M.Jannaschii	Beta	E224A D225A	E836A, D837A	E685A, D686A	Hybrid Binding	-	F	Catalytically dead
Onai et al.(1998), Ref. 127	un-18+	N. Crassa, RNA Pol I	2nd largest	G976D	A1024D	G883D	Hybrid Binding	-	H	-
Wittekind et al.(1988), Ref. 197	rpa190-2	S.Cerevisiae, RNA Pol I	Rpa190	W679STOP	K533STOP	Y791STOP	Fore1	-	-	-
Wittekind et al.(1988), Ref. 197	rpa190-3	S.Cerevisiae, RNA Pol I	Rpa190	G728D	G574D	G837D	Fore1	-	E	-
Allison et al.(1989), Ref. 2	rpo21-Δ88	S.Cerevisiae, RNA Pol II	Rpb1	CTD deletion repeat 5-17	CTD deletion repeat 5-17	-	-	-	-	-
Allison et al.(1989), Ref. 2	rpo21-yt	S.Cerevisiae, RNA Pol II	Rpb1	Add 12 repeat before CTD	Add 12 repeat before CTD	-	-	-	-	-
Archambault et al.(1992), Ref. 5	rpo21-17	S.Cerevisiae, RNA Pol II	Rpb1	V1107(ARAR)A	V1107(ARAR)A	A1265(ARAR)A	Cleft	Trigger Loop	-	6-AU sensitivity suppressed by high dosage ppr2
Berroteeran et al.(1994), Ref. 20	sua8-4	S.Cerevisiae, RNA Pol II	Rpb1	G1388V	G1388V	A1428V	Cleft	Switch1	-	Low polymerization, ty insertion supressor, start site selection
Donaldson et al.(2000), Ref. 49	rpo21-27	S.Cerevisiae, RNA Pol II	Rpb1	C67S	C67S	C73S	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-36	S.Cerevisiae, RNA Pol II	Rpb1	C67S, C70S	C67S, C70S	C73S, C76S	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-28	S.Cerevisiae, RNA Pol II	Rpb1	C70S	C70S	C76S	Clamp core	-	A	-

Donaldson et al.(2000), Ref. 49	rpo21-29	S.Cerevisiae, RNA Pol II	Rpb1	C77S	C77S	S83S	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-37	S.Cerevisiae, RNA Pol II	Rpb1	C77S, H80Y, H83Y	C77S, H80Y, H83Y	S83S, R89Y, H82Y	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-30	S.Cerevisiae, RNA Pol II	Rpb1	H80Y	H80Y	R89Y	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-31	S.Cerevisiae, RNA Pol II	Rpb1	H83Y	H83Y	H92Y	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-32	S.Cerevisiae, RNA Pol II	Rpb1	C103S	C103S	L123S	Clamp Head	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-39	S.Cerevisiae, RNA Pol II	Rpb1	C103S, C105S, C107S, C110S	C103S, C105S, C107S, C110S	L123S, Q125S, L127S, N130S	Clamp Head	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-33	S.Cerevisiae, RNA Pol II	Rpb1	C105S	C105S	Q125S	Clamp Head	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-38	S.Cerevisiae, RNA Pol II	Rpb1	C105S, C107S, C110S	C105S, C107S, C110S	Q125S, L127S, N130S	Clamp Head	-	A	-
Donaldson et al.(2000), Ref. 49	rpo21-34	S.Cerevisiae, RNA Pol II	Rpb1	C107S	C107S	L127S	Clamp Head	-	-	-
Donaldson et al.(2000), Ref. 49	rpo21-35	S.Cerevisiae, RNA Pol II	Rpb1	C110S	C110S	N130S	Clamp Head	-	-	-
Drebot et al.(1993), Ref. 51	rpo21-4	S.Cerevisiae, RNA Pol II	Rpb1	W954(LELE)P	W954(LELE)P	-	Foot	-	-	Assembly
Himmelfarb et al.(1987), Ref. 67	rpo21-3	S.Cerevisiae, RNA Pol II	Rpb1	G111D	G111D	K131D	Clamp Head	-	-	-
Himmelfarb et al.(1987), Ref. 67; Werner et al.(1992), Ref. 192	rpo21-1	S.Cerevisiae, RNA Pol II	Rpb1	G79D	G79D	Y88D	Clamp core	-	A	-
Himmelfarb et al.(1987), Ref. 67; Werner et al.(1992), Ref. 192	rpo21-2	S.Cerevisiae, RNA Pol II	Rpb1	G111D, E360K	G111D, E360K	K131D, K638K	Clamp Head, Active site	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	N339A	N339A	N617A	Clamp Core	Switch 2	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D346A	D346A	D624A	Active site	Switch 2	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	V352A	V352A	V630A	Active site	Switch 2	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	P357A	P357A	P635A	Active site	-	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	L359A	L359A	L637A	Active site	-	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	Q363A	Q363A	Q641A	Active site	-	C	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D408A	D408A	Q680A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	G410A	G410A	D682A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D411A	D411A	I683A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D411K	D411K	I683K	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	R412A	R412A	K684A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	I413A	I413A	D685A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D414A	D414A	E686A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	D414K	D414K	E686K	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	L415A	L415A	V687A	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	R416A	R416A	-	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	Y417A	Y417A	-	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	S418A	S418A	-	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	K419A	K419A	-	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	R420E	R420E	-	Dock	-	-	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	L443A	L443A	L701A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	R446A	R446A	R704A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	V474A	V474A	V732A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	Y478A	Y478A	F736A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	M487A	M487A	M745A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	P492A	P492A	P750A	Active site	-	D	-
Majovski et al.(2005), Ref. 110	-	S.Cerevisiae, RNA Pol II	Rpb1	L504A	L504A	Q762A	Active site	-	-	-
Martin et al.(1990), Ref. 111	rpb1-511/512	S.Cerevisiae, RNA Pol II	Rpb1	R326C	R326C	T604C	Clamp core	Switch2	-	Suppressor of thermosensitive phenotype of rpb2-2
Martin et al.(1990), Ref. 111	rpb1-510, E1061A	S.Cerevisiae, RNA Pol II	Rpb1	E1062A	E1062A	E1219A	Cleft	-	G	Suppressor of thermosensitive phenotype of rpb2-2

Martin et al.(1990), Ref. 111	rpb1-513	S.Cerevisiae, RNA Pol II	Rpb1	F1410L	F1410L	T1448L	Clamp core	Switch1	H	Suppressor of thermosensitive phenotype of rpb2-2
Martin et al.(1990), Ref. 111	rpb1-514	S.Cerevisiae, RNA Pol II	Rpb1	S1449L	S1449L	V1487L	Linker	-	-	Suppressor of thermosensitive phenotype of rpb2-2
Nonet et al.(1989), Ref. 124	rpb1-551	S.Cerevisiae, RNA Pol II	Rpb1	V1428F	V1428F	V1466F	Clamp core	-	H	Suppressor of CTD deletions
Scafe et al.(1990), Ref. 150	rpb1-9	S.Cerevisiae, RNA Pol II	Rpb1	P24S	P24S	P15S	Clamp core	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-18	S.Cerevisiae, RNA Pol II	Rpb1	G166S	G166S	G457S	Clamp Head	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-13	S.Cerevisiae, RNA Pol II	Rpb1	P172S	P172S	E463S	Clamp Head	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-5	S.Cerevisiae, RNA Pol II	Rpb1	R335C	R335C	R613C	Clamp core	Switch2	C	-
Scafe et al.(1990), Ref. 150	rpb1-14	S.Cerevisiae, RNA Pol II	Rpb1	R412H	R412H	K684H	Dock	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-17	S.Cerevisiae, RNA Pol II	Rpb1	M487I	M487I	M745I	Active site	-	D	-
Scafe et al.(1990), Ref. 150	rpb1-10	S.Cerevisiae, RNA Pol II	Rpb1	G558D, M818I	G558D, M818I	A814D, H1075I	Pore1, Cleft	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-19	S.Cerevisiae, RNA Pol II	Rpb1	C1240Y	C1240Y	-	Jaw	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-15	S.Cerevisiae, RNA Pol II	Rpb1	I1327N	I1327N	Y1347N	Cleft	-	-	-
Scafe et al.(1990), Ref. 150	rpb1-1	S.Cerevisiae, RNA Pol II	Rpb1	G1437D	G1437D	G1475D	Linker	Switch5	H	-
Werner et al.(1992), Ref. 192	rpo21-2	S.Cerevisiae, RNA Pol II	Rpb1	G111D, E360K	G111D, E360K	K131D, K638K	Clamp Head, Active site	-	-	-
West et al.(1995), Ref. 193	WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	7 repeat	7 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(8)	S.Cerevisiae, RNA Pol II	Rpb1	8 repeat	8 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(9)	S.Cerevisiae, RNA Pol II	Rpb1	9 repeat	9 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(10)	S.Cerevisiae, RNA Pol II	Rpb1	10 repeat	10 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(11)	S.Cerevisiae, RNA Pol II	Rpb1	11 repeat	11 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(12)	S.Cerevisiae, RNA Pol II	Rpb1	12 repeat	12 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(13)	S.Cerevisiae, RNA Pol II	Rpb1	13 repeat	13 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	WT(14)	S.Cerevisiae, RNA Pol II	Rpb1	14 repeat	14 repeat	-	-	-	-	-
West et al.(1995), Ref. 193	A2	S.Cerevisiae, RNA Pol II	Rpb1	(14-18 repeat) S2A	(14-18 repeat) S2A	-	-	-	-	-
West et al.(1995), Ref. 193	A5	S.Cerevisiae, RNA Pol II	Rpb1	15 repeat S5A	15 repeat S5A	-	-	-	-	-
West et al.(1995), Ref. 193	A2,5	S.Cerevisiae, RNA Pol II	Rpb1	10 repeat S2A S5A	10 repeat S2A S5A	-	-	-	-	-
West et al.(1995), Ref. 193	E2	S.Cerevisiae, RNA Pol II	Rpb1	10-15 repeat S2E	10-15 repeat S2E	-	-	-	-	-
West et al.(1995), Ref. 193	E5	S.Cerevisiae, RNA Pol II	Rpb1	10-12-18 repeat S5E	10-12-18 repeat S5E	-	-	-	-	-
West et al.(1995), Ref. 193	P2S3	S.Cerevisiae, RNA Pol II	Rpb1	10-15 repeat S2P, P3S	10-15 repeat S2P, P3S	-	-	-	-	-
West et al.(1995), Ref. 193	F1	S.Cerevisiae, RNA Pol II	Rpb1	12 repeat Y1F	12 repeat Y1F	-	-	-	-	-
West et al.(1995), Ref. 193	A2(4)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	4 repeats S2A, 7 repeat WT	4 repeats S2A, 7 repeat WT	-	-	-	-	-
West et al.(1995), Ref. 193	A2(3)WT(8)	S.Cerevisiae, RNA Pol II	Rpb1	3 repeats S2A, 8 repeat WT	3 repeats S2A, 8 repeat WT	-	-	-	-	-
West et al.(1995), Ref. 193	A2(8)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	8 repeats S2A, 7 repeats WT	8 repeats S2A, 7 repeats WT	-	-	-	-	-
West et al.(1995), Ref. 193	E2(4)A2(4)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	4 repeats S2E, 4 repeats S2A, 7 repeat WT	4 repeats S2E, 4 repeats S2A, 7 repeat WT	-	-	-	-	-
West et al.(1995), Ref. 193	WT(9)A2(6)	S.Cerevisiae, RNA Pol II	Rpb1	9 repeats WT, 6 repeats S2A	9 repeats WT, 6 repeats S2A	-	-	-	-	-
West et al.(1995), Ref. 193	A5(5)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	5 repeats S5A, 7 repeats WT	5 repeats S5A, 7 repeats WT	-	-	-	-	-
West et al.(1995), Ref. 193	WT(7)A5(7)	S.Cerevisiae, RNA Pol II	Rpb1	7 repeats WT, 7 repeats S5A	7 repeats WT, 7 repeats S5A	-	-	-	-	-
West et al.(1995), Ref. 193	A2,5(8)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	8 repeats S2A S5A, 7 repeats WT	8 repeats S2A S5A, 7 repeats WT	-	-	-	-	-
West et al.(1995), Ref. 193	WT(10)A2,5(7)	S.Cerevisiae, RNA Pol II	Rpb1	10 repeats WT, 7 repeats S2A S5A	10 repeats WT, 7 repeats S2A S5A	-	-	-	-	-
West et al.(1995), Ref. 193	WT(7)A2,5 (7)	S.Cerevisiae, RNA Pol II	Rpb1	7 repeats WT, 7 repeats S2A S5A	7 repeats WT, 7 repeats S2A S5A	-	-	-	-	-
West et al.(1995), Ref. 193	WT(6)E2(7)	S.Cerevisiae, RNA Pol II	Rpb1	6 repeats WT, 7 repeats S2E	6 repeats WT, 7 repeats S2E	-	-	-	-	-
West et al.(1995), Ref. 193	E2(5)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	5 repeats S2E, 7 repeats WT	5 repeats S2E, 7 repeats WT	-	-	-	-	-
West et al.(1995), Ref. 193	WT(6)E5(7)	S.Cerevisiae, RNA Pol II	Rpb1	6 repeats WT, 7 repeats S5E	6 repeats WT, 7 repeats S5E	-	-	-	-	-
West et al.(1995), Ref. 193	E5(5)WT(7)	S.Cerevisiae, RNA Pol II	Rpb1	5 repeats S5E, 7 repeats WT	5 repeats S5E, 7 repeats WT	-	-	-	-	-

West et al.(1995), Ref. 193	(12)E2/W1m	S.Cerevisiae, RNA Pol II	Rpb1	12 repeats random S2E/WT	12 repeats random S2E/WT	-	-	-	-	-	-
Hekmatpanah et al.(1991), Ref. 65	rpb2-502, S486L	S.Cerevisiae, RNA Pol II	Rpb2	S489L	S489L	L401L	Fork	-	-	-	Ty insertion suppressor, start site selection
Martin et al.(1990), Ref. 111	rpb2-513/514	S.Cerevisiae, RNA Pol II	Rpb2	D1125N	D1125N	F1027N	Hybrid Binding	Switch3	I	-	Suppressor of thermosensitive phenotype of rpb1-1 & rpb1-5
Martin et al.(1990), Ref. 111	rpb2-510/511/516/517	S.Cerevisiae, RNA Pol II	Rpb2	S1145L	S1145L	H1047L	Anchor	Switch4	I	-	Suppressor of thermosensitive rpb1-1
Powell et al.(1996), Ref. 136; Scafe et al.(1990), Ref. 150	rpb2-7	S.Cerevisiae, RNA Pol II	Rpb2	R120C	R120C	K86C	Protrusion	-	A	-	Low polymerization, 6-Azauracil sensitivity
Scafe et al.(1990), Ref. 150	rpb2-11, C828Y	S.Cerevisiae, RNA Pol II	Rpb2	C829Y	C829Y	P678Y	Hybrid Binding	-	F	-	-
Scafe et al.(1990), Ref. 150	rpb2-6	S.Cerevisiae, RNA Pol II	Rpb2	R857K	R857K	E706K	Wall	-	-	-	-
Scafe et al.(1990), Ref. 150	rpb2-9	S.Cerevisiae, RNA Pol II	Rpb2	G913D	G913D	G757D	Wall	-	G	-	-
Scafe et al.(1990), Ref. 150	rpb2-4	S.Cerevisiae, RNA Pol II	Rpb2	A1016T	A1016T	G875T	Hybrid Binding	-	H	-	-
Scafe et al.(1990), Ref. 150	rpb2-5	S.Cerevisiae, RNA Pol II	Rpb2	G1068E	G1068E	G970E	Hybrid Binding	-	I	-	-
Scafe et al.(1990), Ref. 150	rpb2-3	S.Cerevisiae, RNA Pol II	Rpb2	R1106K	R1106K	R1008K	Hybrid Binding	Switch3	I	-	-
Scafe et al.(1990), Ref. 150	rpb2-1; rpb2-2	S.Cerevisiae, RNA Pol II	Rpb2	G1142D	G1142D	G1044D	Anchor	-	I	-	-
Scafe et al.(1990), Ref. 150	rpb2-8	S.Cerevisiae, RNA Pol II	Rpb2	C1182Y	C1182Y	I1071Y	Clamp	-	-	-	-
Scafe et al.(1990), Ref. 151	rpb2-2	S.Cerevisiae, RNA Pol II	Rpb2	G1142D	G1142D	G1044D	Anchor	-	I	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	C1163A	C1163A	-	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	I1165V, C1166A	I1165V, C1166A	I1060V, E1061A	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	C1166S	C1166S	E1061S	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	G1167F	G1167F	G1062F	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	L1168P	L1168P	R1063P	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	C1182A	C1182A	I1071A	Clamp	-	-	-	-
Treich et al.(1991), Ref. 181	-	S.Cerevisiae, RNA Pol II	Rpb2	C1185A	C1185A	-	Clamp	-	-	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K962R	K962R	E821R	Wall	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K962R, K965R, K972R	K962R, K965R, K972R	E821R, R824R, R831R	Wall	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K965R	K965R	R824R	Wall	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K972R	K972R	R831R	Wall	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K979R	K979R	K838R	Hybrid Binding	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K987R	K987R	K846R	Hybrid Binding	-	H	-	-
Treich et al.(1992), Ref. 180	-	S.Cerevisiae, RNA Pol II	Rpb2	K1102R	K1102R	K1004R	Hybrid Binding	-	I	-	-
Dieci et al.(1995), Ref. 48	rpc160-108	S.Cerevisiae, RNA Pol III	RPC160	T497N	T467N	S725N	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-143	S.Cerevisiae, RNA Pol III	RPC160	L500I	L470I	L728I	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-170	S.Cerevisiae, RNA Pol III	RPC160	T506I	S476I	E734I	Active site	-	D	-	Intragenic suppressor of N509Y
Dieci et al.(1995), Ref. 48	rpc160-171	S.Cerevisiae, RNA Pol III	RPC160	T506R	S476R	E734R	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-212	S.Cerevisiae, RNA Pol III	RPC160	T506I, D511Y	S476I, D481Y	E734I, D739Y	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-144	S.Cerevisiae, RNA Pol III	RPC160	P507H	P477H	A735H	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-164	S.Cerevisiae, RNA Pol III	RPC160	P507L, Y508I, N509STOP	P477L, Y478I, N479STOP	A735L, F736I, N737STOP	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-167	S.Cerevisiae, RNA Pol III	RPC160	P507T, T524I, N533T	P477T, S494I, Q503T	A735T, S752I, I761T	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-198	S.Cerevisiae, RNA Pol III	RPC160	Y508S	Y478S	F736S	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-197	S.Cerevisiae, RNA Pol III	RPC160	Y508F	Y478F	F736F	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-146	S.Cerevisiae, RNA Pol III	RPC160	N509Y, N533D	N479Y, Q503D	N737Y, I761D	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-172	S.Cerevisiae, RNA Pol III	RPC160	N509Y	N479Y	N737Y	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-173	S.Cerevisiae, RNA Pol III	RPC160	N509D	N479D	N737D	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-174	S.Cerevisiae, RNA Pol III	RPC160	N509H	N479H	N737H	Active site	-	D	-	-
Dieci et al.(1995), Ref. 48	rpc160-133	S.Cerevisiae, RNA Pol III	RPC160	N509H, M517K, E525V	N479H, M487K, E495V	N737H, M745K, S753V	Active site	-	D	-	-

Dieci et al.(1995), Ref. 48	rpc160-199	S.Cerevisiae, RNA Pol III	RPC160	A510G	A480G	A738G	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-216	S.Cerevisiae, RNA Pol III	RPC160	A510G, M517R	A480G, M487R	A738G, M745R	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-217	S.Cerevisiae, RNA Pol III	RPC160	A510D, M517I	A480D, M487I	A738D, M745I	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-200	S.Cerevisiae, RNA Pol III	RPC160	D511E	D481E	D739E	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-202	S.Cerevisiae, RNA Pol III	RPC160	F512S	F482S	F740S	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-201	S.Cerevisiae, RNA Pol III	RPC160	F512Y	F482Y	F740Y	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-203	S.Cerevisiae, RNA Pol III	RPC160	D513V	D483V	D741V	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-204	S.Cerevisiae, RNA Pol III	RPC160	D513E	D483E	D741E	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-182	S.Cerevisiae, RNA Pol III	RPC160	G514V	G484V	G742V	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-205	S.Cerevisiae, RNA Pol III	RPC160	D515E	D485E	D743E	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-193	S.Cerevisiae, RNA Pol III	RPC160	D515G	D485G	D743G	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-210	S.Cerevisiae, RNA Pol III	RPC160	E516D	E486D	Q744D	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-219	S.Cerevisiae, RNA Pol III	RPC160	E516D, H520D	E486D, H490D	Q744D, H748D	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-206	S.Cerevisiae, RNA Pol III	RPC160	M517I	M487I	M745I	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-139	S.Cerevisiae, RNA Pol III	RPC160	M517L	M487L	M745L	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-155	S.Cerevisiae, RNA Pol III	RPC160	M517V	M487V	M745V	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-211	S.Cerevisiae, RNA Pol III	RPC160	M517R	M487R	M745R	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-208	S.Cerevisiae, RNA Pol III	RPC160	N518L	N488L	A746L	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-207	S.Cerevisiae, RNA Pol III	RPC160	N518R	N488R	A746R	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-105	S.Cerevisiae, RNA Pol III	RPC160	H520Q	H490Q	H748Q	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-190	S.Cerevisiae, RNA Pol III	RPC160	H520P	H490P	H748P	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-132	S.Cerevisiae, RNA Pol III	RPC160	P522R	P492R	P750R	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-109	S.Cerevisiae, RNA Pol III	RPC160	T524S	S494S	S752S	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-149	S.Cerevisiae, RNA Pol III	RPC160	T524I, A527V	S494I, T497V	S752I, A755V	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-158	S.Cerevisiae, RNA Pol III	RPC160	E526Q	E496Q	F754Q	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-111	S.Cerevisiae, RNA Pol III	RPC160	E526G	E496G	F754G	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-222	S.Cerevisiae, RNA Pol III	RPC160	E526P	E496P	F754P	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-142	S.Cerevisiae, RNA Pol III	RPC160	R528L	R488L	Q756L	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-110	S.Cerevisiae, RNA Pol III	RPC160	E530D	E500D	E758D	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-159	S.Cerevisiae, RNA Pol III	RPC160	E530V	E500V	E758V	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-185	S.Cerevisiae, RNA Pol III	RPC160	A531R	L501R	A759R	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-191	S.Cerevisiae, RNA Pol III	RPC160	A531D	L501D	A759D	Active site	-	D	-
Dieci et al.(1995), Ref. 48	rpc160-136	S.Cerevisiae, RNA Pol III	RPC160	I532V	S502V	R760V	Active site	-	-	-
Dieci et al.(1995), Ref. 48	rpc160-148	S.Cerevisiae, RNA Pol III	RPC160	I532L	S502L	R760L	Active site	-	-	-
Dieci et al.(1995), Ref. 48	rpc160-162	S.Cerevisiae, RNA Pol III	RPC160	L534F	L504F	Q762F	Active site	-	-	-
Dieci et al.(1995), Ref. 48	rpc160-153	S.Cerevisiae, RNA Pol III	RPC160	G536R	A506R	L764R	Active site	-	-	-
Dieci et al.(1995), Ref. 48; Hermann-Le Denmat et al.(1994), Ref. 66	rpc160-209	S.Cerevisiae, RNA Pol III	RPC160	N518Q	N488Q	A746Q	Active site	-	D	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-226	S.Cerevisiae, RNA Pol III	RPC160	C67A	C67A	C73A	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-227	S.Cerevisiae, RNA Pol III	RPC160	C70A	C70A	C76A	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-220	S.Cerevisiae, RNA Pol III	RPC160	C77Q	C77Q	S83Q	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-228	S.Cerevisiae, RNA Pol III	RPC160	G79D	G79D	Y88D	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-215	S.Cerevisiae, RNA Pol III	RPC160	H80Y	H80Y	R89Y	Clamp core	-	A	-
Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-115	S.Cerevisiae, RNA Pol III	RPC160	H83L	H83L	H92L	Clamp core	-	A	-

Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183 Donaldson et al.(2000), Ref. 48; Werner et al.(1992), Ref. 183	rpc160-230	S.Cerevisiae, RNA Pol III	RPC160	C107A	C107A	L127A	Clamp Head	-	-	-
	rpc160-231	S.Cerevisiae, RNA Pol III	RPC160	C110A	C110A	N130A	Clamp Head	-	-	-
Herrmann-Le Denmat et al.(1994), Ref. 66	rpc160-112	S.Cerevisiae, RNA Pol III	RPC160	T506I, N509Y	S476I, N479Y	E734I, N737Y	Active site	-	D	-
Thuillier et al.(1996), Ref. 177	C160-274	S.Cerevisiae, RNA Pol III	RPC160	E763A, K765A	E715A, N717A	-, Q991A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-275	S.Cerevisiae, RNA Pol III	RPC160	E763A, K765A, K772A, R774A	E715A, N717A, E724A, R726A	-, Q991A, E998A, T1000A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-280	S.Cerevisiae, RNA Pol III	RPC160	E763A, K765A, K772T, R774A	E715A, N717A, E724T, R726A	-, Q991A, E998T, T1000A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-281	S.Cerevisiae, RNA Pol III	RPC160	E763A, K765A, R774A, E775A	E715A, N717A, R726A, D727A	-, Q991A, T1000A, E1001A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-282	S.Cerevisiae, RNA Pol III	RPC160	K772A, R774A	E724A, R726A	E998A, T1000A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-276	S.Cerevisiae, RNA Pol III	RPC160	R774A, E775A	R726A, D727A	T1000A, E1001A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-277	S.Cerevisiae, RNA Pol III	RPC160	E775A, E776A	D727A, K728A	E1001A, K1002A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-278	S.Cerevisiae, RNA Pol III	RPC160	E776A, D779A	K728A, R731A	K1002A, Q1005A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-279	S.Cerevisiae, RNA Pol III	RPC160	E784A, D786A	N736A, K738A	N1010A, Y1015A	Funnel	-	-	-
Thuillier et al.(1996), Ref. 177	C160-251	S.Cerevisiae, RNA Pol III	RPC160	R822A	R774A	-	Funnel	-	F	-
Thuillier et al.(1996), Ref. 177	C160-252	S.Cerevisiae, RNA Pol III	RPC160	R822A, D825A	R774A, F777A	-,	Funnel	-	F	-
Thuillier et al.(1996), Ref. 177	C160-253	S.Cerevisiae, RNA Pol III	RPC160	R822A, D825A, K837A, K840A	R774A, F777A, K789A, Y792A	-, Q1046A, S1049A	Funnel	-	F	-
Thuillier et al.(1996), Ref. 177	C160-270	S.Cerevisiae, RNA Pol III	RPC160	D829A, R830A	D781A, R782A	-,	Funnel	-	F	Promoter clearance, enhanced pausing, higher cleavage, [NTP] dependent, low polymerization
Thuillier et al.(1996), Ref. 177	C160-257	S.Cerevisiae, RNA Pol III	RPC160	K837A, K840A	K789A, Y792A	Q1046A, S1049A	Funnel	-	F	-
Thuillier et al.(1996), Ref. 177	C160-258	S.Cerevisiae, RNA Pol III	RPC160	K845A, R849A	K797A, E801A	E1054A, R1058A	Funnel	-	F	-
Thuillier et al.(1996), Ref. 177	C160-255	S.Cerevisiae, RNA Pol III	RPC160	R869A, E870A	R821A, E822A	R1078A, K1079A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-271	S.Cerevisiae, RNA Pol III	RPC160	D874A, K878A	D826A, K830A	D1083A, R1087A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-272	S.Cerevisiae, RNA Pol III	RPC160	K878A	K830A	R1087A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-273	S.Cerevisiae, RNA Pol III	RPC160	K878A, E881A	K830A, E833A	R1087A, D1090A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-262	S.Cerevisiae, RNA Pol III	RPC160	R887A, R888A	R839A, R840A	R1096A, K1097A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-263	S.Cerevisiae, RNA Pol III	RPC160	K891A, E894A, D895A	K843A, E846A, D847A	D1100A, H1103A, E1104A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-265	S.Cerevisiae, RNA Pol III	RPC160	K891A, D901A, R905A	K843A, D853A, R857A	D1100A, A1110A, T1114A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-266	S.Cerevisiae, RNA Pol III	RPC160	K891A, E894A, D895A, D901A, R905A	K843A, E846A, D847A, D853A, R857A	D1100A, H1103A, E1104A, A1110A, T1114A	Cleft	Bridge Helix	F	-
Thuillier et al.(1996), Ref. 177	C160-264	S.Cerevisiae, RNA Pol III	RPC160	D901A	D853A	A1110A	Cleft	-	F	-
Thuillier et al.(1996), Ref. 177	C160-269	S.Cerevisiae, RNA Pol III	RPC160	D901A, R905A	D853A, R857A	A1110A, T1114A	Cleft	-	F	-
Thuillier et al.(1996), Ref. 177	C160-267	S.Cerevisiae, RNA Pol III	RPC160	D919A, D922A	D871A, D874A	-,	Cleft, Foot	-	F	-
Thuillier et al.(1996), Ref. 177	C160-268	S.Cerevisiae, RNA Pol III	RPC160	E925A, E927A	H877A, E879A	-,	Foot	-	-	-
Thuillier et al.(1996), Ref. 177	C160-CBC1	S.Cerevisiae, RNA Pol III	RPC160	Res 713-926 of Rpb1	-	-	-	-	-	-
Thuillier et al.(1996), Ref. 177	C160-CBC2	S.Cerevisiae, RNA Pol III	RPC160	Res 810-926 of Rpb1	-	-	-	-	-	-
Thuillier et al.(1996), Ref. 177	C160-CBC3	S.Cerevisiae, RNA Pol III	RPC160	Res 810-843 of Rpb1	-	-	-	-	-	-
Thuillier et al.(1996), Ref. 177	C160-CBC4	S.Cerevisiae, RNA Pol III	RPC160	Res 866-927 of yRpb1	-	-	-	-	-	-
Werner et al.(1992), Ref. 192	rpc160-168	S.Cerevisiae, RNA Pol III	RPC160	C67H, C70H	C67H, C70H	C73H, C76H	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-169	S.Cerevisiae, RNA Pol III	RPC160	C67H, C70Q	C67H, C70Q	C73H, C76Q	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-180	S.Cerevisiae, RNA Pol III	RPC160	C67Q, C70H	C67Q, C70H	C73Q, C76H	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-188	S.Cerevisiae, RNA Pol III	RPC160	C67Q, C70Q	C67Q, C70Q	C73Q, C76Q	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-232	S.Cerevisiae, RNA Pol III	RPC160	C67Q, C77A, H80R	C67Q, C77A, H80R	C73Q, S83A, R89R	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-124	S.Cerevisiae, RNA Pol III	RPC160	Δ75-78, I102R	Δ75-78, V102R	Δ81-87, E122R	Clamp core, clamp head	-	A	-
Werner et al.(1992), Ref. 192	rpc160-213	S.Cerevisiae, RNA Pol III	RPC160	C77H	C77H	S83H	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-235	S.Cerevisiae, RNA Pol III	RPC160	C77A, H78R, H80R, H83R	C77A, P78R, H80R, H83R	S83A, R87R, R89R, H92R	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-234	S.Cerevisiae, RNA Pol III	RPC160	C77A, H80R	C77A, H80R	S83A, R89R	Clamp core	-	A	-

Werner et al.(1992), Ref. 192	rpc160-233	S.Cerevisiae, RNA Pol III	RPC160	C77A, H80R, C107Q, C110Q	C77A, H80R, C107Q, C110Q	S83A, R89R, L127Q, N130Q	Clamp core, clamp head	-	A	-
Werner et al.(1992), Ref. 192	rpc160-126	S.Cerevisiae, RNA Pol III	RPC160	H78Q	P78Q	R87Q	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-214	S.Cerevisiae, RNA Pol III	RPC160	H78Q, H83L	P78Q, H83L	R87Q, H92L	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-103	S.Cerevisiae, RNA Pol III	RPC160	H80Q, K85I	H80Q, D85I	R89Q, E94I	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-179	S.Cerevisiae, RNA Pol III	RPC160	H80Q	H80Q	R89Q	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-189	S.Cerevisiae, RNA Pol III	RPC160	H80L	H80L	R89L	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-223	S.Cerevisiae, RNA Pol III	RPC160	H80C	H80C	R89C	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-229	S.Cerevisiae, RNA Pol III	RPC160	G82D	G82D	G91D	Clamp core	-	A	-
Werner et al.(1992), Ref. 192	rpc160-106	S.Cerevisiae, RNA Pol III	RPC160	F96L	I96L	V105L	Clamp Head	-	A	-
Werner et al.(1992), Ref. 192	rpc160-177	S.Cerevisiae, RNA Pol III	RPC160	C107H, C110H	C107H, C110H	L127H, N130H	Clamp Head	-	-	-
Werner et al.(1992), Ref. 192	rpc160-176	S.Cerevisiae, RNA Pol III	RPC160	C107H, C110Q	C107H, C110Q	L127H, N130Q	Clamp Head	-	-	-
Werner et al.(1992), Ref. 192	rpc160-178	S.Cerevisiae, RNA Pol III	RPC160	C107Q, C110H	C107Q, C110H	L127Q, N130H	Clamp Head	-	-	-
Werner et al.(1992), Ref. 192	rpc160-114	S.Cerevisiae, RNA Pol III	RPC160	K108R	M108R	Y128R	Clamp Head	-	-	-
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q300P	T329P	K252P	Lobe	-	C	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Y304H, G306R	F333H, G335R	Y256H, F258R	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	G306S	G335S	F258S	Lobe	-	C	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	V309L	G338L	L261L	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T311A	A340A	D263A	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T311A, T318A	A340A, K347A	D263A, G273A	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R313K	G342K	K265K	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R313I	G342I	K265I	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R313S	G342S	K265S	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L317Q	E346Q	L289Q	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L317P, E325K	E346P, D354K	L289P, K280K	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I319N	R348N	R274N	Lobe	-	C	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I1071M	I1139M	E1041M	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I1071F	I1139F	E1041F	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	A1072T	A1140T	A1042T	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	A1072V	A1140V	A1042V	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Y1073H	H1141H	Y1043H	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Y1073H, L1078F	H1141H, F1146F	Y1043H, T1048F	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	A1075V, L1080F	A1143V, K1148F	A1045V, Q1050F	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S1076P	A1144P	A1046P	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S1076T	A1144T	A1046T	Anchor	-	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T455S, G485D	S480S, K510D	S392S, D426D	Fork	Fork1, Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	H456D, L467M	Q481D, L492M	Q393D, L404M	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	H456Y, K479T	Q481Y, R504T	Q393Y, R420T	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	V457F, V483D	V482F, L508D	F394F, G424D	Fork	-, Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L461I	Y486I	T398I	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I464T	S489T	L401T	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L467W, K482N, P486A	L492W, K507N, P511A	L404W, A423N, V427A	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L467W, E478V	L492W, G503V	L404W, T419V	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M469L, F477L, E478A	H494L, I502L, G503A	H406L, L418L, T419A	Fork	-	-	Reduced termination

Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M470L	L495L	K407L	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M470T, R481K	L495T, G506K	K407T, R422K	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M470L, E478D	L495L, G503D	K407L, T419D	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T471S	R496S	R408S	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T471K, S475P	R496K, T500P	R408K, G416P	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T471R	R496R	R408R	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R472K	R497K	R409K	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R472K, S480P	R497K, D505P	R409K, E421P	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I473L, E478Q	T498L, G503Q	I410L, T419Q	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S474F	N499F	S411F	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S474C, V483D	N499C, L508D	S411C, G424D	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q476L	P501L	G417L	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q476L, P486R	P501L, P511R	G417L, V427R	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q476R, P486L	P501R, P511L	G417R, V427L	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q476R, R481I, P486S	P501R, G506I, P511S	G417R, R422I, V427S	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	F477C, K479N, K482Q, V483F	I502C, R504N, K507Q, L508F	L418C, R420N, A423Q, G424F	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	E478D	G503D	T419D	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R481K	G506K	R422K	Fork	Fork2	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	G485D	K510D	D426D	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	G485C	K510C	D426C	Fork	Fork2	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L489E	L514E	V430E	Fork	Fork2	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q490L	H515L	H431L	Fork	Fork2	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q490P, A515G	H515P, S540G	H431P, A456G	Fork	Fork2	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q490K, E506V	H515K, Q531V	H431K, A447V	Fork	Fork2	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S492Y	T517Y	T433Y	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	S492T, L497H	T517T, V522H	T433T, I438H	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q493H	H518H	H434H	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	Q493H, L516F	H518H, L541F	H434H, A457F	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	F494I, L516F	W519L, L541F	Y435I, A457F	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	G495V	G520V	G436V	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T499A	P524A	P440A	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	A500P	A525P	V441P	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	D501E	E526E	E442E	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	G505S	G530S	G446S	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	E506A	Q531A	A447A	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	E506A, T518S	Q531A, S543S	A447A, A459S	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	K512T	K537T	T453T	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	N513T	N538T	S454T	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L516F	L541F	A457F	Fork	-	D	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M517L, T518A	M542L, S543A	Y458L, A459A	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M517T, H519Q	M542T, C544Q	Y458T, R460Q	Fork	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T518S	S543S	A459S	Fork	-	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T518A	S543A	A459A	Fork	-	-	Reduced termination



Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T518N	SS43N	A459N	Fork	-	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T521P	S546P	D462P	Fork	-	-	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	T521A	S546A	D462A	Fork	-	-	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R1061G	R1129G	R1031G	Anchor	Switch3	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R1061T, I1071L	R1129T, I1139L	R1031T, E1041L	Anchor	Switch3	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I1071F, L1080F	I1139F, K1148F	E1041F, Q1050F	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I1071N, Q1077H	I1139N, S1145H	E1041N, H1047H	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	I1071F, S1076A	I1139F, A1144A	E1041F, A1046A	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L1080F	K1148F	Q1050F	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L1080F, E1081D	K1148F, E1149D	Q1050F, E1051D	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	R1082G	R1150G	M1052G	Anchor	Switch4	I	Increased termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	L497V, H519P, D524A	V522V, C544P, T549A	I438V, R460P, F466A	Fork, External2	-	D	Reduced termination
Shaaban et al.(1995), Ref. 157	-	S.Cerevisiae, RNA Pol III	Ret1	M517V, D524A	M542V, T549A	Y458V, F466A	Fork, Protrusion	-	D	Increased termination
Sugaya (2003), Ref. 167	tsAF8	S.Pombe, RNA Pol II	Rpb1	A307D	A301D	D579D	Clamp core	Rudder	-	-
Sugaya (2003), Ref. 167	-	S.Pombe, RNA Pol II	Rpb1	A307D, P986S	A301D, I983S	D579D, L1168S	Clamp core, Foot	Rudder	-	-
Sugaya (2003), Ref. 167; Sugaya et al.(1998), Ref. 168	-	S.Pombe, RNA Pol II	Rpb1	P986S	I983S	L1168S	Foot	-	-	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	Q311K	Q325K	P248K	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	Q343N	Q357N	S286N	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	E354K	E368K	D295K	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	E357A	E371A	F298A	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	D383A	D397A	D324A	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	rpb2H386L	S.Pombe, RNA Pol II	Rpb2	H386L	H400L	H327L	Lobe	-	C	-
Kawagishi-Kobayashi et al.(1996), Ref. 84	-	S.Pombe, RNA Pol II	Rpb2	K390A	K404A	R331A	Lobe	-	C	-

<sup>a</sup> Blanks are used when the allele's name is the same as the mutation

<sup>b</sup> Blanks are used when no affected function can be attributed to the mutant's phenotype