

Table S1: Post-translational modifications of splicing factors

Commitment Complex	SF1	Hu				P ^{42, 43, 101-104}
	BBP	Mu				P ¹⁰⁵⁻¹¹⁰
		Sc				P ^{35, 36}
	Cbp80	Hu	Ac ⁶⁴			P ^{43, 112}
		Mu		Ub ¹¹¹		P ¹⁰⁹
		Sc				
U1 snRNP	Cbp20	Hu	Ac ⁶⁴			P ⁴⁴
		Mu				P ^{105, 109}
	UAP56	Hu	Ac ⁶⁴		O-Glc ⁷³	P ⁴³
	Sub2	Sc		Ub ^{59, 111}		P ^{35, 36, 45, 113}
	U2AF65	Hu	Ac ⁶⁴			P ^{42, 43, 104, 114-117}
	Mud2	Sc				P ¹¹³
	U2AF35	Hu				P ^{42, 44}
	U1 70k	Hu	Ac ⁶⁴			P ^{42, 43, 97, 102, 117-122}
		Mu				P ^{113, 141, 154}
	FBP11	Hu	Ac ⁶⁴			P ^{42, 43, 101, 114, 116}
	Prp40	Mu				P ^{106, 108-110}
		Sc				P ³⁵
		Sp				P ¹²³
	Usa1	Sc		Ub ¹¹¹		P ^{35, 45}
U2 snRNP	Prp39	Hu	Ac ⁶⁴			P ¹²⁵
		Sc		Ub ¹⁵⁶		
	U1-A	Hu	Ac ⁶⁴			P ⁴³
	Snu71	Sc				P ^{35, 45}
	Nam8	Sc				P ³⁵
	U1-C	Hu	Ac ⁶⁴			P ^{43, 126}
	p68	Hu	Ac ⁶⁴		O-Glc ⁷³	P ^{43, 104, 117, 119, 122, 126}
	U2AFM	Hu				P ^{42, 43}
	DHX15	Hu	Ac ⁶⁴		Su ¹²⁸	P ¹¹⁷
	Prp43	Sc				P ^{35, 36, 113, 129}
U2 snRNP	SPF30	Hu	Ac ⁶⁴			P ^{43, 102}
	SPF31	Hu	Ac ⁶⁴			P ¹⁰⁴
	PUF60	Hu	Ac ⁶⁴			P ^{43, 102}
	SPF45	Hu	Ac ⁶⁴			P ^{41-43, 104, 130, 131}
		Mu				P ^{108, 110}
	SNRPA1	Hu	Ac ⁶⁴			P ^{43, 102}
	Mu				P ¹⁰⁹	
SNRPB2	Hu	Ac ⁶⁴			P ¹²⁶	

U2 snRNP (cont'd)

SF3A1 Prp21	Hu Mu Sc	Ac ⁶⁴			P ^{42-44, 101, 104, 126, 130, 132} P ¹³³ P ³⁵
SF3A2 Prp11	Hu Sc	Ac ⁶⁴		Su ¹²⁸	P ³⁵
SF3A3 Sap61	Hu Sp	Ac ⁶⁴		O-Glc ¹³⁴	P ^{42, 43, 126} P ¹²³
SAP155 Hsh155	Hu Mu Sc	Ac ⁶⁴			P ^{30, 42, 43, 101, 102, 114, 117, 119, 135, 136} P ^{105, 109, 110} P ³⁵
SF3B2 Cus1	Hu Sc	Ac ⁶⁴			P ^{42-44, 101, 104, 116, 119, 131} P ¹²⁵
SF3B3 Sap130	Hu Sc	Ac ⁶⁴	Ub ¹¹¹	O-Glc ⁷⁹	P ³⁵
SF3B4	Hu	Ac ⁶⁴		Su ¹²⁸	P ^{122, 126}
SF3B5	Hu	Ac ⁶⁴			P ⁴⁴
SF3B14	Hu	Ac ⁶⁴			P ¹²⁶
SF3B14b	Hu	Ac ⁶⁴			
SF3B125	Hu Mu	Ac ⁶⁴			P ^{42, 43} P ^{106, 108-110, 137}
Tat-Sf1 Cus2	Hu Sc				P ^{41-44, 104, 116, 131, 138} P ^{45, 100, 139}
DDX46 Prp5	Hu Mu Sc	Ac ⁶⁴			P ^{42, 43, 101} P ¹⁰⁸ P ¹³⁹
Sad1	Hu Sc	Ac ⁶⁴	Ub ¹¹¹		P ¹⁴⁰ P ¹¹³
SART1 Snu66	Hu Sc			Su ¹²⁸	P ^{42-44, 101, 114, 130} P ^{35, 36, 45}
Prp4	Hu Sc	Ac ⁶⁴			P ³⁵
SART3 Prp24	Hu Sc				P ^{42, 44} P ^{35, 36}
Prp3	Hu Mu Sc				P ^{41-44, 104, 131, 138} P ^{110, 133} P ^{35, 113}
Nrb54	Hu	Ac ⁶⁴			P ^{42, 43, 102, 104, 114, 117, 119, 141}
Prp38a Prp38b Prp38	Hu Hu Sc	Ac ⁶⁴			P ^{42, 43, 117, 119} P ^{42-44, 102, 117, 120, 121, 136} P ³⁵
Prp8	Hu Mu Sc	Ac ⁶⁴	Ub ⁶	Su ¹²⁸	P ^{43, 44, 114} P ^{44, 105} P ³⁵
Prp6	Hu Sc	Ac ⁶⁴			P ⁴³ P ¹³⁹

U4/U6,U5 related

U5 snRNP

U6 snRNP

Nineteen Complex

Step II Factors

Prp1	<i>Sp</i>				P ¹²³
Brr2	Hu <i>Sc</i>	Ac ⁶⁴		Su ¹²⁸	P ^{41-43, 101, 119, 130, 131, 138, 142} P ^{35, 36}
SNRP116 Snu114	Hu <i>Sc</i>		Ub ¹¹¹	Su ¹²⁸	P ^{42, 44, 101} P ^{35, 45, 129}
Prp28	Hu <i>Sc</i>				P ⁴² P ^{35, 113}
Prp2	Hu <i>Sc</i>	Ac ⁶⁴			P ^{42, 43, 104, 116, 126} P ³⁶
KIAA0560	Hu	Ac ⁶⁴			
Prp31	Hu				P ⁴³
Lsm2	Hu				P ^{44, 126}
Lsm3	<i>Sp</i>				P ¹²³
Lsm4	<i>Sc</i>				P ³⁵
Lsm6	Hu	Ac ⁶⁴			
Cwc15	Hu <i>Sc</i>				P ^{42, 43, 119} P ³⁵
Ecm2	Mu				P ¹¹⁰
Syf1	Hu	Ac ⁶⁴			P ⁴³
Syf2	<i>Sc</i>				P ^{10, 35, 36}
Spp381	<i>Sc</i>				P ³⁵
Isy1	Hu <i>Sc</i>	Ac ⁶⁴		O-Glc ⁷⁴	P ⁴⁴
Prp19	Hu <i>Sc</i>	Ac ⁶⁴		O-Glc ⁷⁴	P ⁴³ P ³⁵
Cwc2	<i>Sc</i>				P ^{125, 139}
SKIP Prp46	Hu <i>Sc</i>				P ^{43, 103, 104, 116, 120, 121, 136} P ³⁵
Ntc20	<i>Sc</i>				P ³⁵
Ntr2	<i>Sc</i>				P ³⁵
Prp16	Hu	Ac ⁶⁴			P ⁴³
Prp18	Mu <i>Sc</i>				P ¹³³ P ¹²⁵
CDC5	Hu	Ac ⁶⁴			P ^{42, 43, 114}
DHX8 Prp22	Hu <i>Sc</i>				P ^{43, 117, 143} P ^{35, 129}
SRRM2 Cwc21	Hu <i>Sp</i>	Ac ⁶⁴			P ^{35, 41-44, 101, 102, 104, 114, 116, 117, 120, 121, 136, 138} P ¹²³
Cwc22	Mu				P ¹¹⁰

Auxiliary Factors

	Sc				P ^{35, 36}
Cwc24	Sc				P ^{35, 45, 113, 129}
Cwc25	Sp				P ¹²³
Slu7	Hu Sc			O-Glc ⁷⁵	P ^{41, 42, 102, 117, 130} P ^{35, 36, 45}
Spp2	Sc Sp				P ³⁵ P ¹²³
PRP17	Hu Mu				P ⁴² P ¹⁰⁷
Lsm1	Sc				P ¹³⁹
DBR1 Prp26	Hu Mu Sc	Ac ⁶⁴			P ^{42, 43, 121} P ¹⁰⁸ P ⁴⁵
Smd2	Sc				P ¹²⁵
Npl3 Srp2	Sc Sp			O-Glc ⁷⁵	P ^{35, 36, 45, 129, 144} P ¹²³
Spp41	Sc			Su ¹⁴⁵	P ^{35, 36, 45}
WBP11	Hu Mu	Ac ⁶⁴			P ^{42, 43, 121} P ^{105, 109, 133}
Urn1	Sc				P ³⁵
Aar2	Sc Sp				P ³⁵ P ¹²³
KHSRP	Hu Mu	Ac ⁶⁴		O-Glc ⁷³	P ^{43, 44, 104, 119-121} P ^{35, 44, 146}
TRA2B	Hu Mu				P ^{42-43, 106-107, 124, 127} P ^{112, 114-115, 152-153}
TDP43	Hu			O-Glc ⁷³	P ⁴²
KIAA1966	Hu				P ^{41-43, 101, 102, 117, 119, 120, 136, 138}
ZRAB2	Hu Mu				P ^{41-44, 101, 104, 114, 116, 120, 121, 130, 131} P ^{109, 110, 147}
MAGOHB	Hu	Ac ⁶⁴			P ^{120, 121}
GEMIN5	Hu Mu	Ac ⁶⁴		Su ¹²⁸	P ^{42, 101, 102, 119} P ¹⁰⁹
PTB	Hu			Su ¹²⁸	P ^{43, 121, 124, 127}
hnRNP A1	Hu Mu	Ac ⁶⁴			P ^{42, 43, 104, 114, 116, 117, 119, 120, 122, 126, 148, 152} P ^{105, 107, 109, 110, 149, 150, 154}
hnRNP A3	Hu	Ac ⁶⁴			P ^{43, 104, 114, 116, 119-121}
hnRNP C	Hu Mu	Ac ⁶⁴		Su ¹²⁸	P ^{42, 43, 103, 104, 119, 130, 131, 141, 151, 155} P ^{35, 105, 108-110}
hnRNP D	Hu Mu	Ac ⁶⁴			P ^{42, 43, 101, 104, 119, 130, 131, 143} P ¹¹⁰

hnRNP F	Hu	Ac ⁶⁴			P ^{42-44, 101, 119, 126}
hnRNP H1	Hu Mu				P ^{42, 43, 101, 116, 117, 119, 126} P ^{105, 107}
hnRNP L	Hu	Ac ⁶⁴		Su ¹²⁸	P ⁴³
hnRNP M	Hu Mu	Ac ⁶⁴		Su ¹²⁸	P ^{41, 42, 102, 119, 144} P ^{105, 137}
hnRNP U	Hu	Ac ⁶⁴			P ^{42, 43, 103, 104, 114, 117, 119}
RBM22	Hu	Ac ⁶⁴			
Raly	Hu Mu	Ac ⁶⁴			P ^{41-44, 103, 117, 119, 130, 151, 155} P ^{107-110, 150, 154}