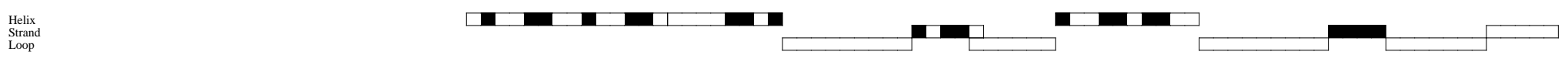
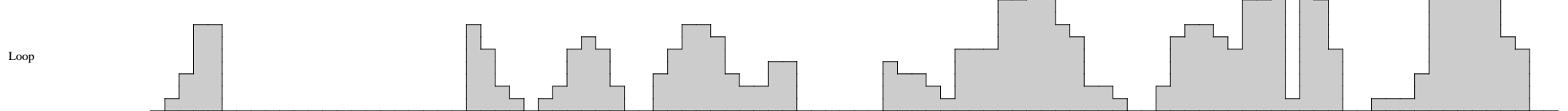
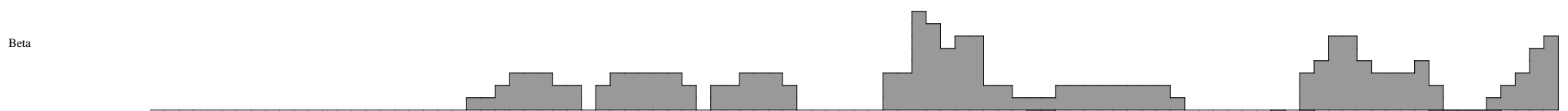
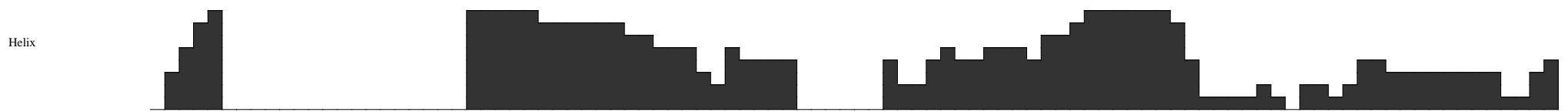
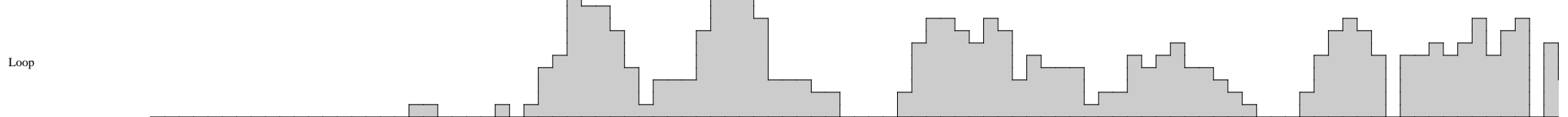
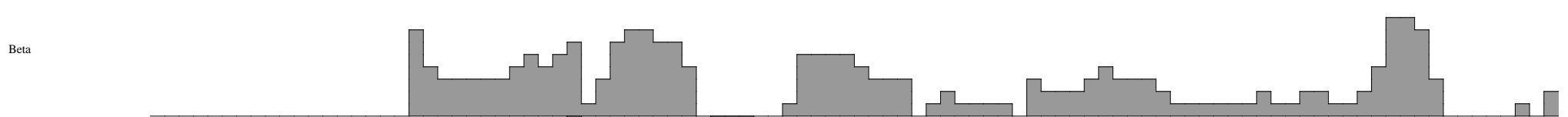


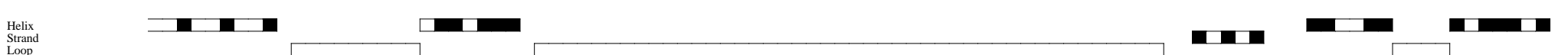
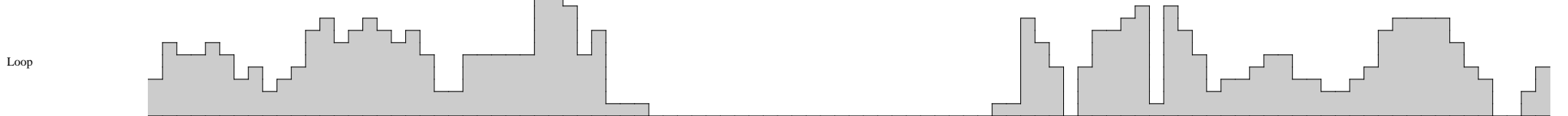
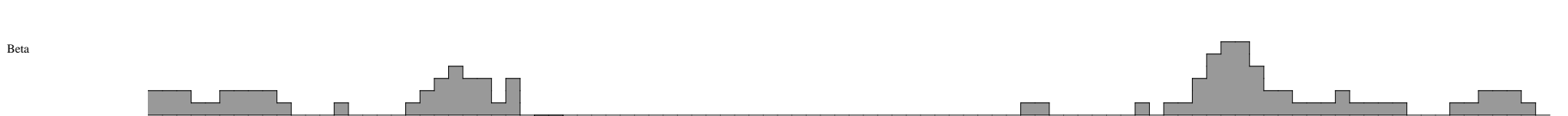
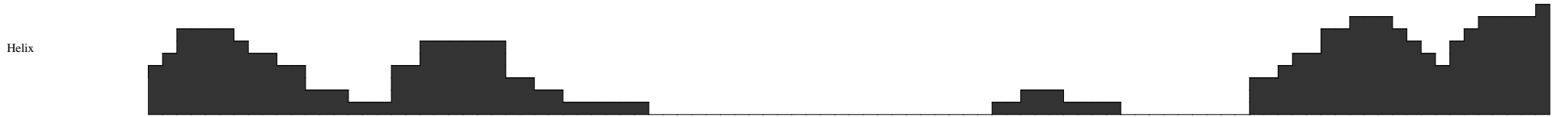
	1	10	20	30	40	50	60	70	80	90
PP2B S.c CMP2 [65-66]	K	L	S	A	A					
PP2B S.c CMP1 [65-66]	R	S	K	E						
PP2B beta1 H [67]	R	L	V	D	E	E				
PP2B beta3 H [68]	R	D	D	E	E					
PP2B beta2 H [67]	R	V	V	D	E	E				
PP2B beta2 Rt [69]	R	V	V	D	E	E				
PP2B alpha Rt [69]	R	V	V	D	E	E				
PP2A S.c PPH22 [70]	P	L	S	D	A					
PP2A S.c PPH21 [70]	P	L	S	D	A					
PP2A S.p ppa2+ [71]	P	L	S	D	A					
PP2A S.p ppa1+ [71]	P	L	S	D	A					
PP2A beta Rb [72]	P	L	S	D	A					
PP2A beta P [73]	P	L	S	D	A					
PP2A alpha B Rb P [73-75]	P	L	S	D	A					
PP2A 28d D.m [76]	P	L	S	D	A					
PP2A B.napus [77]	P	L	S	D	A					
SIT4 S.c [12]	A	L	L	L	L					
PP4 (PPX) H [78]	L	L	L	L	L					
PP4 (PPX) Rb [41]	L	L	L	L	L					
PP4 D.m [79]	L	L	L	L	L					
PPV D.m [9]	H	L	L	L	L					
PPH3 S.c [80]	H	L	L	L	L					
PP1 S.c Dis2 [81]	D	L	E	N	N					
PP1 gamma Rt [82]	O	L	O	E	N					
PP1 m1 M [81]	O	L	O	E	N					
PP1 A.nidulans [83]	O	L	O	E	N					
PP1 S.p dis2+ [81]	O	L	O	E	N					
PP1 13C D.m [84]	O	L	O	E	N					
PP1 alpha Rb [85]	O	L	O	E	N					
PP1 A.thialana [86]	O	L	O	E	N					
PP1 96A D.m [87]	O	L	O	E	N					
PP1 S.p sds21+ [81]	O	L	O	E	N					
PP1 87B D.m [88]	O	L	O	E	N					
PP1 beta Rb Rt [82, 87]	O	L	O	E	N					
PP1 m2 M [81]	O	L	O	E	N					
PP1 9C D.m [87]	O	L	O	E	N					
PP1 Z.mays [89]	O	L	O	E	N					
PPY 55A D.m [90]	O	L	O	E	N					
PP1 T.brucei [91]	G	L	T	E	A					
PP1 B.napus [77]	G	L	T	E	A					
PPZ1 S.c [9]	C	V	K	N	N					
PPQ S.c [37]	C	V	K	N	N					
PPZ2 S.c [38]	C	V	K	N	N					
PP5 H (1)	K	L	H	R	K					
PPT S.c (2)	Y	L	P	K	K					
Conservation	6		5	7	6		5	6		6



	100	110	120	130	140	150	160	170	180	190		
PP2B S.c CMP2 [65-66]			U	G	G	C	C	C	C	C	C	L
PP2B S.c CMP1 [65-66]			L	V	V	V	V	V	V	V	V	L
PP2B beta1 H [67]	H	V	L	G	T	E	D	I	S	I	N	P
PP2B beta3 H [68]			L	V	V	V	V	V	V	V	V	V
PP2B beta2 H [67]			L	V	V	V	V	V	V	V	V	V
PP2B beta2 Rt [69]			L	V	V	V	V	V	V	V	V	V
PP2B alpha Rt [69]			L	V	V	V	V	V	V	V	V	V
PP2A S.c PPH22 [70]			L	V	V	V	V	V	V	V	V	V
PP2A S.c PPH21 [70]			L	V	V	V	V	V	V	V	V	V
PP2A S.p ppa2+ [71]			L	V	V	V	V	V	V	V	V	V
PP2A S.p ppa1+ [71]			L	V	V	V	V	V	V	V	V	V
PP2A beta Rb [72]			L	V	V	V	V	V	V	V	V	V
PP2A beta P [73]			L	V	V	V	V	V	V	V	V	V
PP2A alpha B Rb P [73-75]			L	V	V	V	V	V	V	V	V	V
PP2A 28d D.m [76]			L	V	V	V	V	V	V	V	V	V
PP2A B.napus [77]			L	V	V	V	V	V	V	V	V	V
SIT4 S.c [12]			L	V	V	V	V	V	V	V	V	V
PP4 (PPX) H [78]			L	V	V	V	V	V	V	V	V	V
PP4 (PPX) Rb [41]			L	V	V	V	V	V	V	V	V	V
PP4 D.m [79]			L	V	V	V	V	V	V	V	V	V
PPV D.m [9]			L	V	V	V	V	V	V	V	V	V
PPH3 S.c [80]			L	V	V	V	V	V	V	V	V	V
PP1 S.c DIS2 [81]			L	V	V	V	V	V	V	V	V	V
PP1 gamma Rt [82]			L	V	V	V	V	V	V	V	V	V
PP1 m1 M [81]			L	V	V	V	V	V	V	V	V	V
PP1 A.nidulans [83]			L	V	V	V	V	V	V	V	V	V
PP1 S.p dis2+ [81]			L	V	V	V	V	V	V	V	V	V
PP1 13C D.m [84]			L	V	V	V	V	V	V	V	V	V
PP1 alpha Rb [85]			L	V	V	V	V	V	V	V	V	V
PP1 A.thialana [86]			L	V	V	V	V	V	V	V	V	V
PP1 96A D.m [87]			L	V	V	V	V	V	V	V	V	V
PP1 S.p sds21+ [81]			L	V	V	V	V	V	V	V	V	V
PP1 87B D.m [88]			L	V	V	V	V	V	V	V	V	V
PP1 beta Rb Rt [82, 87]			L	V	V	V	V	V	V	V	V	V
PP1 m2 M [81]			L	V	V	V	V	V	V	V	V	V
PP1 9C D.m [87]			L	V	V	V	V	V	V	V	V	V
PP1 Z.mays [89]			L	V	V	V	V	V	V	V	V	V
PPY 55A D.m [90]			L	V	V	V	V	V	V	V	V	V
PP1 T.brucei [91]			L	V	V	V	V	V	V	V	V	V
PP1 B.napus [77]			L	V	V	V	V	V	V	V	V	V
PPZ1 S.c [9]			L	V	V	V	V	V	V	V	V	V
PPQ S.c [37]			L	V	V	V	V	V	V	V	V	V
PPZ2 S.c [38]			L	V	V	V	V	V	V	V	V	V
PP5 H (1)	V	A	L	T	L	F	G	E	L	L	L	L
PPT S.c (2)	V	A	L	T	L	F	G	E	L	L	L	L
Conservation	5	5	7	5	5	6	+	6				



	200	210	220	230	240	250	260	270	280	290																
PP2B S.c CMP2 [65-66]	N K	S L	Q D	V	N	N	N	N	N	N	A A															
PP2B S.c CMP1 [65-66]	K S	V E	D D	V	N	N	N	N	N	N	A A															
PP2B beta1 H [67]	H H	T L	D D	V	N	N	N	N	N	N	A A															
PP2B beta3 H [68]	H H	T L	D D	V	N	N	N	N	N	N	A A															
PP2B beta2 H [67]	H H	T L	D D	V	N	N	N	N	N	N	A A															
PP2B beta2 Rt [69]	H H	T L	D D	V	N	N	N	N	N	N	A A															
PP2B alpha Rt [69]	N N	L L	L L	L L	L L	L L	L L	L L	L L	L L	L L															
PP2A S.c PPH22 [70]	E T	I D	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A S.c PPH21 [70]	E T	I D	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A S.p ppa2+ [71]	D T	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A S.p ppa1+ [71]	D T	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A beta Rb [72]	D T	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A beta P [73]	D T	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A alpha B Rb P [73-75]	D T	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A 28d.D.m [76]	D S	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP2A B.napus [77]	E T	R M	D D	V V	N N	N N	N N	N N	N N	N N	A A															
SIT4 S.c [12]	R M	O T	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP4 (PPX) H [78]	O T	O Y	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP4 (PPX) Rb [41]	O Y	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP4 D.m [79]	I T	T T	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPV D.m [9]	T T	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPH3 S.c [80]	N S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 S.c DIS2 [81]	O S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 gamma Rt [82]	O S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 m1 M [81]	O S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 A.nidulans [83]	T S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 S.p dis2+ [81]	T S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 13C D.m [84]	T S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 alpha Rb [85]	T S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 A.thialana [86]	K S	L D	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 96A D.m [87]	N S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 S.p sds21+ [81]	N S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 87B D.m [88]	T S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 beta Rb Rt [82, 87]	O S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 m2 M [81]	O S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 9C D.m [87]	O G	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 Z.mays [89]	N K	N L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPY 55A D.m [90]	N N	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 T.brucei [91]	T D	N L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP1 B.napus [77]	D N	L L	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPZ1 S.c [9]	N S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPQ S.c [37]	H D	M K	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPZ2 S.c [38]	N S	M E	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PP5 H (1)	V Y	L D	D D	V V	N N	N N	N N	N N	N N	N N	A A															
PPT S.c (2)	A T	L S	D D	V V	N N	N N	N N	N N	N N	N N	A A															
Conservation	7	6	6	+	6	5	+	+	6	5	8	9	8	+	7	+	5	8	7	6	7	6	5	+	6	7



	300	310	320	330	340	350
PP2B S.c CMP2 [65-66]	H	E	E	E	E	E
PP2B S.c CMP1 [65-66]	A	A	A	A	A	A
PP2B beta1 H [67]	D	D	D	D	D	D
PP2B beta3 H [68]	A	A	A	A	A	A
PP2B beta2 H [67]	A	A	A	A	A	A
PP2B beta2 Rt [69]	A	A	A	A	A	A
PP2B alpha1 Rt [69]	A	A	A	A	A	A
PP2A S.c PPH22 [70]	Q	D	D	D	D	D
PP2A S.c PPH21 [70]	A	A	A	A	A	A
PP2A S.p ppa2+ [71]	A	A	A	A	A	A
PP2A S.p ppa1+ [71]	A	A	A	A	A	A
PP2A beta Rb [72]	A	A	A	A	A	A
PP2A beta P [73]	A	A	A	A	A	A
PP2A alpha B Rb P [73-75]	A	A	A	A	A	A
PP2A 28d D.m [76]	A	A	A	A	A	A
PP2A B.napus [77]	A	A	A	A	A	A
SIT4 S.c [12]	A	A	A	A	A	A
PP4 (PPX) H [78]	A	A	A	A	A	A
PP4 (PPX) Rb [41]	A	A	A	A	A	A
PP4 D.m [79]	A	A	A	A	A	A
PPV D.m [9]	A	A	A	A	A	A
PPH3 S.c [80]	A	A	A	A	A	A
PP1 S.c DIS2 [81]	A	A	A	A	A	A
PP1 gamma Rt [82]	A	A	A	A	A	A
PP1 m1 M [81]	A	A	A	A	A	A
PP1 A.nidulans [83]	A	A	A	A	A	A
PP1 S.p dis2+ [81]	A	A	A	A	A	A
PP1 13C D.m [84]	A	A	A	A	A	A
PP1 alpha Rb [85]	A	A	A	A	A	A
PP1 A.thialana [86]	A	A	A	A	A	A
PP1 96A D.m [87]	A	A	A	A	A	A
PP1 S.p sds21+ [81]	A	A	A	A	A	A
PP1 87B D.m [88]	A	A	A	A	A	A
PP1 beta Rb Rt [82, 87]	A	A	A	A	A	A
PP1 m2 M [81]	A	A	A	A	A	A
PP1 9C D.m [87]	A	A	A	A	A	A
PP1 Z.mays [89]	A	A	A	A	A	A
PPY 55A D.m [90]	A	A	A	A	A	A
PP1 T.brucei [91]	A	A	A	A	A	A
PP1 B.napus [77]	A	A	A	A	A	A
PPZ1 S.c [9]	A	A	A	A	A	A
PPQ S.c [37]	A	A	A	A	A	A
PPZ2 S.c [38]	A	A	A	A	A	A
PP5 H (1)	A	A	A	A	A	A
PPT S.c (2)	A	A	A	A	A	A
Conservation	+5	6	+5			
				5	+7	8
				+	+	+
				6		
				5		
				+		
				9	7	5
				8		
				5		

