

Supplementary Figure 1A

Scer	GGCAATAATC	GCAACACTAC	AATTTT-GCC	GCTAAT--AT	ATGT-CTATT	[50]
Spar	.....	..G.TG...T	.....-...	.....--..	G...-..G.A	[50]
Smik	.A....T...	A...T.T.TT	G.....-...	...G...--..	G..C-..T.A	[50]
Sbay	.A.....	..GGT...GT	G.....T...	...G----..	G...A..TG.	[50]
Scer	GTGCTACGGA	AGAGTAACAA	AAAAAACAAA	AACTGCATAA	CAAGCAAGT-	[100]
Spar	A.T.....	.A.....AC.	.....TGT	..T.....	.G.....T.-	[100]
Smik	A.T..G..C.	...-C.....	G....C....	..A.TA....	T..A...AAA	[100]
Sbay	AGCT....C.	...AA.GA..	..GTT.G...	.GT.....GC	AC.....AG	[100]
Scer	---TTTATAC	AATACACATT	A-----	-----	TAAAA-----	[150]
Spar	---.A.....	.....A	G-----	-----	...G-----	[150]
Smik	---CA...G.	G...T...C	GGAG-----	-----	...GTTATT	[150]
Sbay	GAT.A.....	.G.GG.G.C.	GGAGAGCGCT	AGACACACTG	..T.GCCACA	[150]
Scer	-----ATTTC	TACTCCGGTG	TTCCGAGCTC	CCATTGCCAT	TGGAGAAAGC	[200]
Spar	-----C..T	CG...T.A..	.C-...A..G	.....T...	.....AT	[200]
Smik	A-TCT.C..T	C....A...	CCG.TGA..G	T-G.....	C.A....AT	[200]
Sbay	AGTCTG..C.	CG.....T..	CC...GAA.T	A.....AT.	.....GC.	[200]
Scer	CCTTA--TGT	GGAGTGGAGC	TGCCTACAGG	TTGTTTTTCAG	GAAAGACATG	[250]
Spar	.....--...	.....T	.....G....	..A.....	AG..A..G..	[250]
Smik	.T...--.C.	...A.....T	.A...G....	-----	-..T..TG..	[250]
Sbay	TGC.GAG..C	.....AC..T	.ATG.G...C	-----	-G.....	[250]
Scer	GTTACAAAAA	AG-ACGACAT	TCGCC--A	ACTTATCACT	CGCTTGAACC	[300]
Spar	.....	G.G..C.G..	.....--T.	G....CA...	.....T.	[300]
Smik	.....	G.G..C.A..	..A.A.AGT.	..G...TGT.	....AT..G.	[300]
Sbay	.....	..A..C.TGC	....TTACTC	...GTATG..	T.AC..CTTT	[300]
Scer	ACTTTTTTATG	CCAAGCCCTT	AAACGCCGCG	AC--TC-AAA	AACATACATA	[350]
Spar	-.C.....	...GA..T..	C.....	..--C.C...	.....A..G	[350]
Smik	-.C.....	T..GAT...-	C.....	..--C.C...	...G...-G	[350]
Sbay	T-.....	...GA.....	T..G..G...	G.AAC.CC..	..A.C.A...	[350]
Scer	CTG---TGCC	GCACGGCAGT	TTTTGG--CG	CTATGACACC	CTTTTCCCCA	[400]
Spar	...AGTCA..	ATGGT..T.G	GCGCT.-T..	..G.CG.G.T	G..CCTTT.C	[400]
Smik	.A.A--.ATT	TTGA-.TC.C	ACA.C.ATA.	...CT...TT	A...C.TT..	[400]
Sbay	TACACGCAA.	T.G.TTTGTG	CCGAA.CAA.	GCGCT..G.T	G.GCG.TA.C	[400]
Scer	AGAAAAT--C	GCATATTAAC	AACA-----	---AATTACC	C-ATGCAACC	[450]
Spar	GAG...A--	...CGGC...	.....	---.CAGT..	--..ATG...	[450]
Smik	..G..TA--	...CGGGT..	G.A-----	---.C.GT..	GA..ATG...	[450]
Sbay	G.....AGA.	...C.GC.G.	T..TCATTTG	GGC..CA...	GC.AA.GG.A	[450]
Scer	CAGGAAAAAA	AAAATAGTCA	TTATATACGT	AGTG-CGCTT	TCA--TTG--	[500]
Spar	-.AA.....	.T..CC.CA.	A.GGCAGT.A	.A..CAAT.A	...--...TA	[500]
Smik	-.AA.....T	.....AGA.	C.G--.GG.A	.AC.-AAG.A	...--C..TA	[500]
Sbay	-GTA.G.GGC	G.GTG..GT.	..T.G....A	..G.AAAGCC	C..GC...GC	[500]
Scer	-ACAA---CT	ACATTTTTTGT	G-CAACTTT-	-----TGTT	-ACACCGCTA	[550]

Spar T..G.AAG.C .A..CC..T. AA.....G.G TTTTGTG..C. -.T.A.CTAC [550]
Smik T..G.AA-.A .A..CA..T. --.C...G.- -----..CA -.TT-.CT.C [550]
Sbay CG.TGCGGTC GGTACGA.CA CAGC..AGCG TACTACTCAC. C..T..A.AC [550]

Scer CACGTATTGA AAGCGCAAAA GAC----- ---TATAGCT CCTCCAGCAG [600]
Spar ACTCC.G..CATT... A..GA-GCAA GGA..CC.TC .G.A...T.T [600]
Smik GC.AC.AC.T .TA.TTT..- ----- -CCCA-- -----...T [600]
Sbay ATTACG...C .CTTA..... CC.ATTACTG CAC.GCT.T. .AA.ACA..T [600]

Scer GGAAAACTCA CATCGGTGGG CAACAACAT- AGAATATGTC AAAGTTGTAA [650]
Spar ATT.....T. ...G....C.G..C.-T.A...GG [650]
Smik TT.G...GT. ...A....T.C .A.....CTG [650]
Sbay TT.G.CGCT. -.CG....C.G.-..- G.....C...AGC [650]

Scer AAACACCCAC GAGTGCATAC CACTTTTCAA CATTACC--- -----GG [700]
Spar ...G.TT..G T.....C..TT ..A....CGG AACGTAGT.. [700]
Smik C.GGTG.TGT T...T..... .GG...CGA AACCCAGT.. [700]
Sbay C.GG...AGT C.AGAG.AG. GGG.ACC.GG -.GCG.A--- -----GT.. [700]

Scer GGAAAAAAA GTTTGCACCT CGTTCCCAGA AACATACGCA G-GAGTGA [750]
Spar ..T.....G. .GC.....C TAC-..... ..G..... .CA..C..GA [750]
Smik ..T...GG. AA.C.....G T..-G..... .TG.T... .CA..C.GGA [750]
Sbay ..T.G...G. .GC.....C T.C-..... ..GC..... .C.G-..A. [750]

Scer GCGCT-AGTG ACAGATTGCT CTTTCCGTTG GAAAAAGAAA C---GACT- [800]
SparCG.-.. ..T...CT.C ...CT..C..TAGC...G [800]
Smik .AA.CC.... ..TA.....C ...C...CA.TTGC.C.CG [800]
Sbay .G..CTG... ..TA..C...GC.GTGCTT.CA [800]

Scer -----TTT TTTCGCAA- ----- -AGTACCCGA [850]
Spar TGTGCAT...A GCTGAAAAA AAAATGCAA A..... [850]
Smik TGTGCAA... C.-.....- GCTGAAAAA AAA-TGCAA A...G.... [850]
Sbay TTGGCA-...G GT---GAAAA AAAATGCAA A..GCGT... [850]

Scer AATCCTCGG- -AATTTTGCA AATAGTCGAT GATC----- ----ACAATT [900]
SparAT..G A..... ..A.T...GGTATT GAGC..TT.. [900]
SmikCT..G A..G..... ..GA.TA..AATATT GAGC...T.. [900]
SbayCT..G A..AG.C.A. .T.TA.T...AGTATT AGGTG.TT.. [900]

Scer -----GTTAG GTGACTATTT AACCAAGGACG GCGAGGAGAA CTGAAAAAAA [950]
Spar -----..... ..TG..... ..A CG..A..... ..G..... [950]
Smik -----..C.. ..TGT..... ..T.....A CG..A..... ..-..... [950]
Sbay CTTTT...A ..TG..... ..A CG..A..... ..T-.G.G.. [950]

Scer AGCAACCTAT CCGGCCTCCT CTAGTTACAC AAA-CAAGAC AAAGAAATTG [1000]
Spar ...G...C.. .T..TA---. T..T..... ..-...AG.G.C.. [1000]
SmikC .T.TT---. T..T.A.... ..-AGGA.A ...A.GGC-- [1000]
Sbay ..TTGT.C.A .T.C.TCTGG G..T..... ..A..GAG. C...C..GC. [1000]

Scer CATTGTCTAT AACGATAACA AAAGACATCG TATATATATA TATAT [1045]
Spar G.CCAC..GC ...AG...G C..T....A ..C..----- ----- [1045]
Smik -.C.C..GC ...A..T... C..T.T.C.. .----- ----- [1045]
Sbay ..AC.C...C ..--.AC.T. T..T..GC.A ..C..----- ----- [1045]

Supplementary Figure 1B

Scer	MSIVLRKSNK	KNKNCITSKF	YTIHIKIST	PVFRAPIAIG	ESPYVEWSCL	[50]
Spar	.CL*FYGKVN	.KTVIA*RAI	.IQYT*.DFR	SDV.TA.V..	.N.....	[50]
Smik	.CL*FCARQQ	E.QKINNKQK	HMRYTSE*.Y	YLLSLQCR*L	CCHRRKSLSG	[50]
Sbay	.CTCSLRKKR	.S*KSCMHSK	RI.YSGDWRA	LDTLYSHKSV	PA.LPRNYIA	[50]
Scer	QVFRKDMVT	KKTTFAQLIT	RLNHFLCQAL	KRRDSKTYIL	CRTAVFGAMT	[100]
Spar	..I..ENV..	.RDQIRPSLQ	LA*IIFMPD.	STPRPQKHKC	*V.M.L..VA	[100]
Smik	MELPAGM.WL	Q.G.KFTQ*R	IVRYKHFYVR	SSTPRPQKRC	RYFESHIDSY	[100]
Sbay	FGEAC*VRS.	VMCEDMVTK	KNHAR.LTVC	LTAFFLCQT.	*GGGNPKKQI	[100]
Scer	PFSPRKSHIN	NKLPMQPRKK	KIVIIYVVRF	H*QLHFCATF	GTPLHVLKAQ	[150]
Spar	VALFLSEKST	ATTTVHMT..	..TANGSEMQ	LSLYTKAKS.	*QLCFCAITY	[150]
Smik	YIISF.EYAR	VRKLSEYDQ.	.*NKNCGK.S	ITVYETKSFS	TVAIPSPQRI	[150]
Sbay	YTQLALCRSK	ALRCAL.E.D	AQQLLIWATT	ANGSKRRVRY	FVRRESPSLA	[150]
Scer	KTIAPPAGKT	HIGGQQHRIC	QSCKNTHECI	PLFNITGEKK	VCTSPFETYA	[200]
Spar	TPVQALKTSK	DTVRTVY*TY	MGAQRPRI.H	NCGK.Q*CTP	LFFNTRNVVG	[200]
Smik	L*PSI*NVHR	CATTSKYAKV	VAGAVSSYHF	STVPE.QWG.	RKSHRVPEMF	[200]
Sbay	AAVGTITAQR	TLTHST.YVA	LTKPI.ALLF	NTHLDANGCA	TNGIRQS*AR	[200]
Scer	GVTALVTDCS	FRWKKKRLFF	AKVPEILGIL	QIVDDHNC*V	TI*QGRRGEL	[250]
Spar	*KE.APYPRN	V.S.RE.R*L	ISLLAGKRN*	RLCAFFSQKL	KKKMQKVP.I	[250]
Smik	AASGRTQ*LI	ALPAG..NLR	PCAISRKAEK	KMQKVPEIPG	KVCK*LMINI	[250]
Sbay	TSQEKRVPGA	QWGR.RLHPA	PETHAAGNGP	GD*SLFPAEK	ETCFHWHFFA	[250]
Scer	KKKQPIRPPL	VTQTRQRNCI	VYNDNKRHRI	YIY-----	-----	[300]
Spar	HG.FCK*LMI	GIEHFC*VA.	*QGHGRELEK	KRPIWYLEFTQ	TKQRDWTTCN	[300]
Smik	EHICQVVI**	GHGRELKKSN	LPVFINTK GK	KRHRLQQLHN	IP-----	[300]
Sbay	.V.KNAKRRR	NPWEKSKFID	DQY*VLFFC*	VAI*QGHGRE	LRESCPTASG	[300]
Scer	-----	-----	[320]			
Spar	SNAIHHT---	-----	[320]			
Smik	-----	-----	[320]			
Sbay	YLHKTEPSKR	NAYKTYNTPY	[320]			