

SUPPLEMENTAL FIGURE LEGENDS

Suppl Figure 1. Linker scan analysis of *ARS319*. (A) Plasmid loss rates per generation are plotted for wild type *ARS319* (pFJ9) and mutant versions of pFJ9 containing GGTCGAC linker substitutions and additional mutations. (B) Detailed view of wild type *ARS319* sequence and mutant derivatives, marked as in Fig. 2B.

Suppl Figures 2-10. Overview of nucleosome positions generated from various genome-wide datasets (Suppl Table 2). Four individual nucleosome studies are highlighted using colored lines or ovals. The solid grey ovals indicate the consensus positions of nucleosomes determined from six genome-wide studies (see (1)). A vertical line indicates the dyad position for each positioned nucleosome. There are two clear discrepancies between (1) and the four nucleosome studies we highlight (2-5) that are indicated by grey ovals with a white asterisk. These two nucleosomes, one completely overlapping *ARS1* and the other overlapping the B2 element of *ARS309*, also had a low occupancy value of 22/100 and 45/100 in (1) are therefore not shown in Figure 7.

Suppl Figure 11. The average ATCG composition of the B-region of 228 conserved ARS elements identified by Nieduszynski et al. (6) is plotted as a percentage relative to distance from the EACS in bp. Nucleotide 1 in this graph is the last base pair of the 3' EACS, GTT.

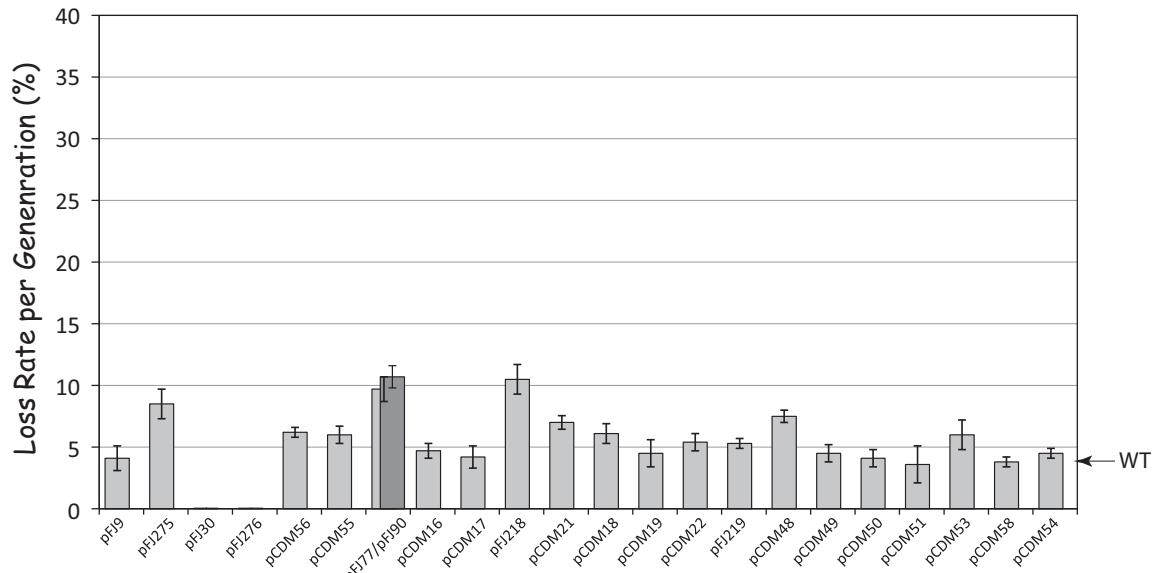
SUPPLEMENTAL REFERENCES

1. Jiang, C. and Pugh, B.F. (2009) A compiled and systematic reference map of nucleosome positions across the *Saccharomyces cerevisiae* genome. *Genome Biol*, **10**, R109.
2. Albert, I., Mavrich, T.N., Tomsho, L.P., Qi, J., Zanton, S.J., Schuster, S.C. and Pugh, B.F. (2007) Translational and rotational settings of H2A.Z nucleosomes across the *Saccharomyces cerevisiae* genome. *Nature*, **446**, 572-576.
3. Eaton, M.L., Galani, K., Kang, S., Bell, S.P. and MacAlpine, D.M. (2010) Conserved nucleosome positioning defines replication origins. *Genes Dev*, **24**, 748-753.
4. Lee, W., Tillo, D., Bray, N., Morse, R.H., Davis, R.W., Hughes, T.R. and Nislow, C. (2007) A high-resolution atlas of nucleosome occupancy in yeast. *Nat Genet*, **39**, 1235-1244.
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6. Nieduszynski, C.A., Knox, Y. and Donaldson, A.D. (2006) Genome-wide identification of replication origins in yeast by comparative genomics. *Genes Dev*, **20**, 1874-1879.

A

ARS319

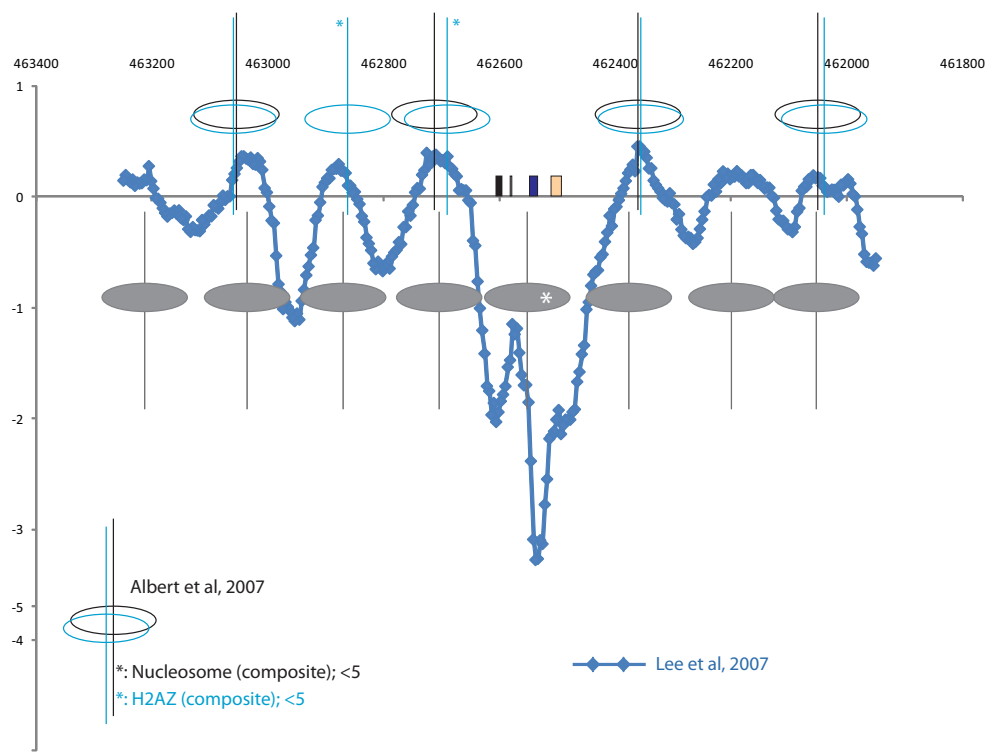
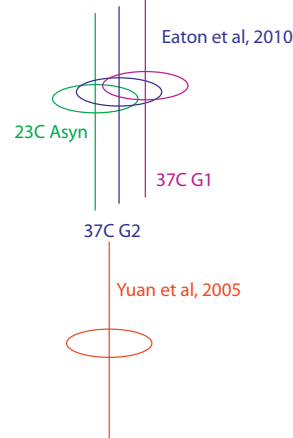
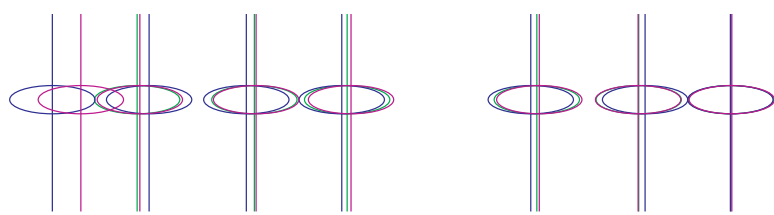
10 bp



B

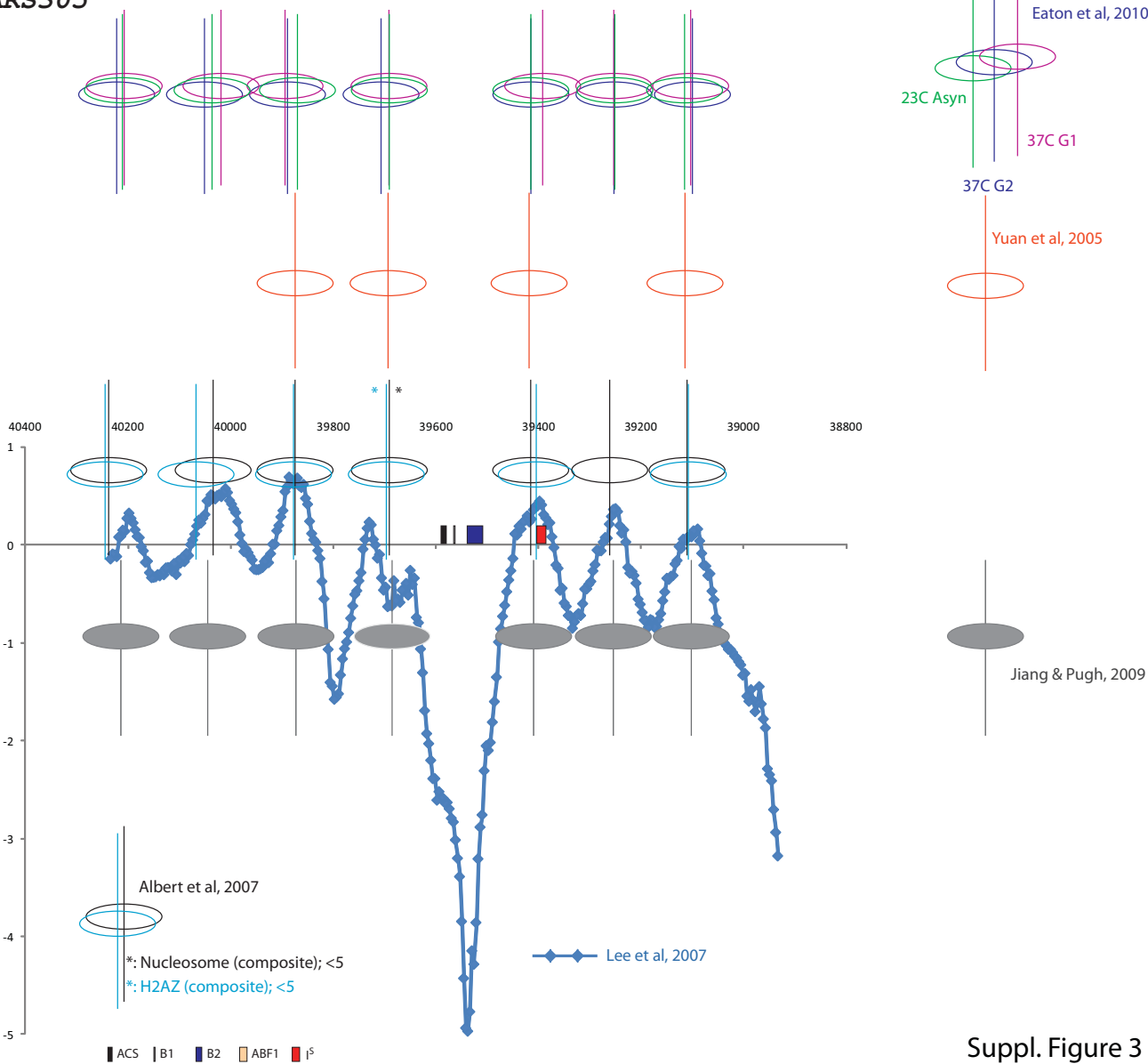


ARS1

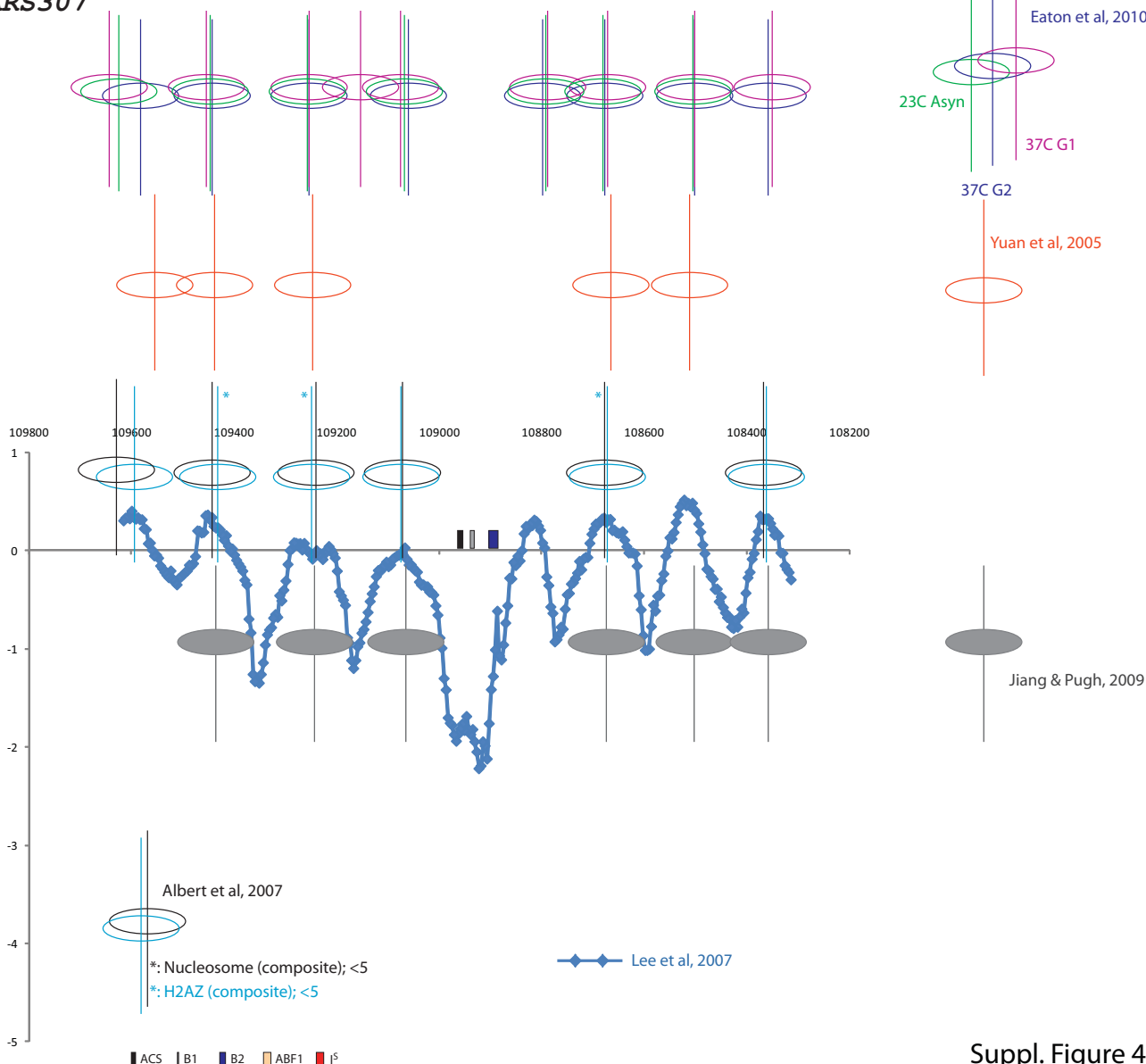


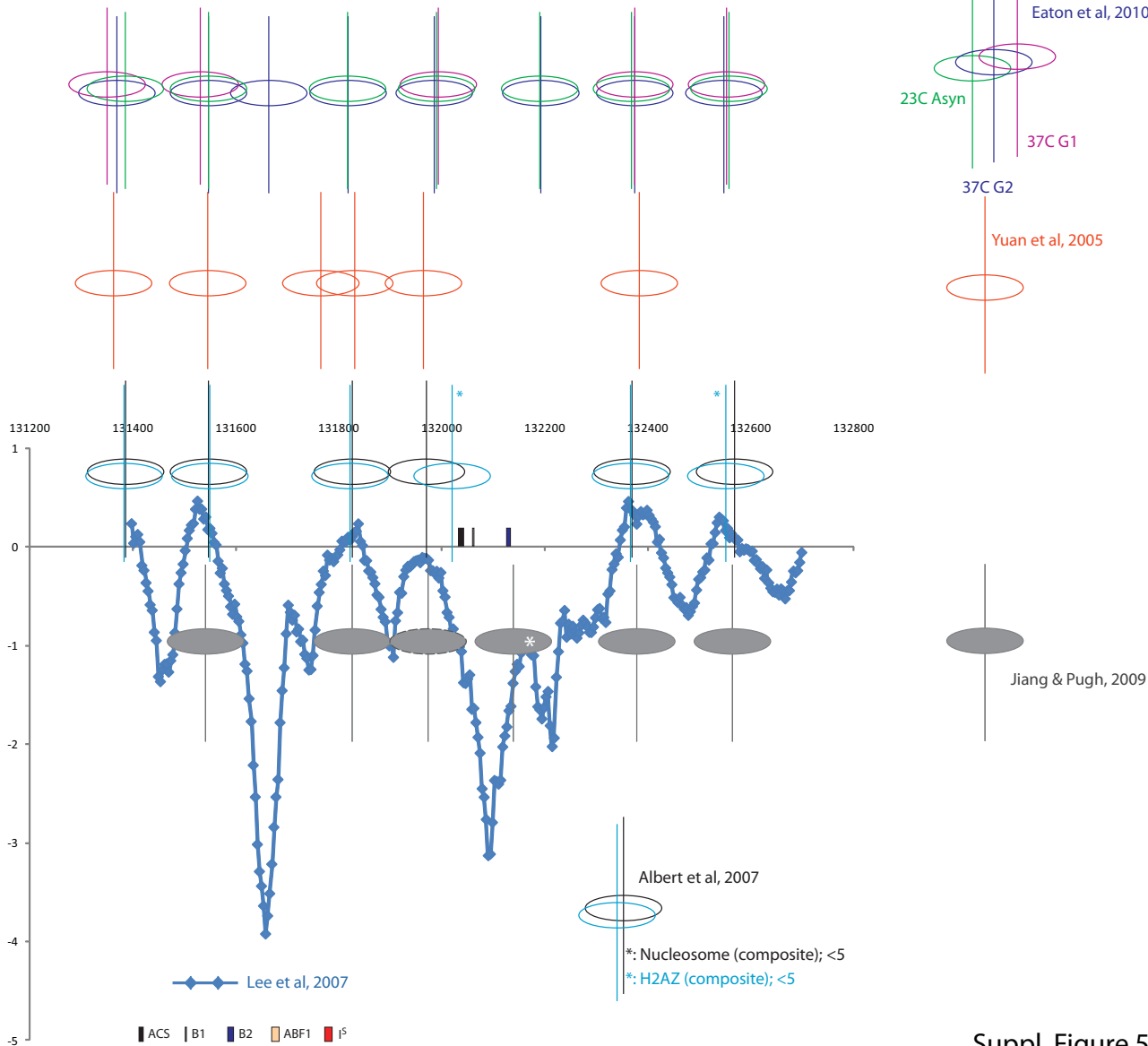
Jiang & Pugh, 2009

ARS305

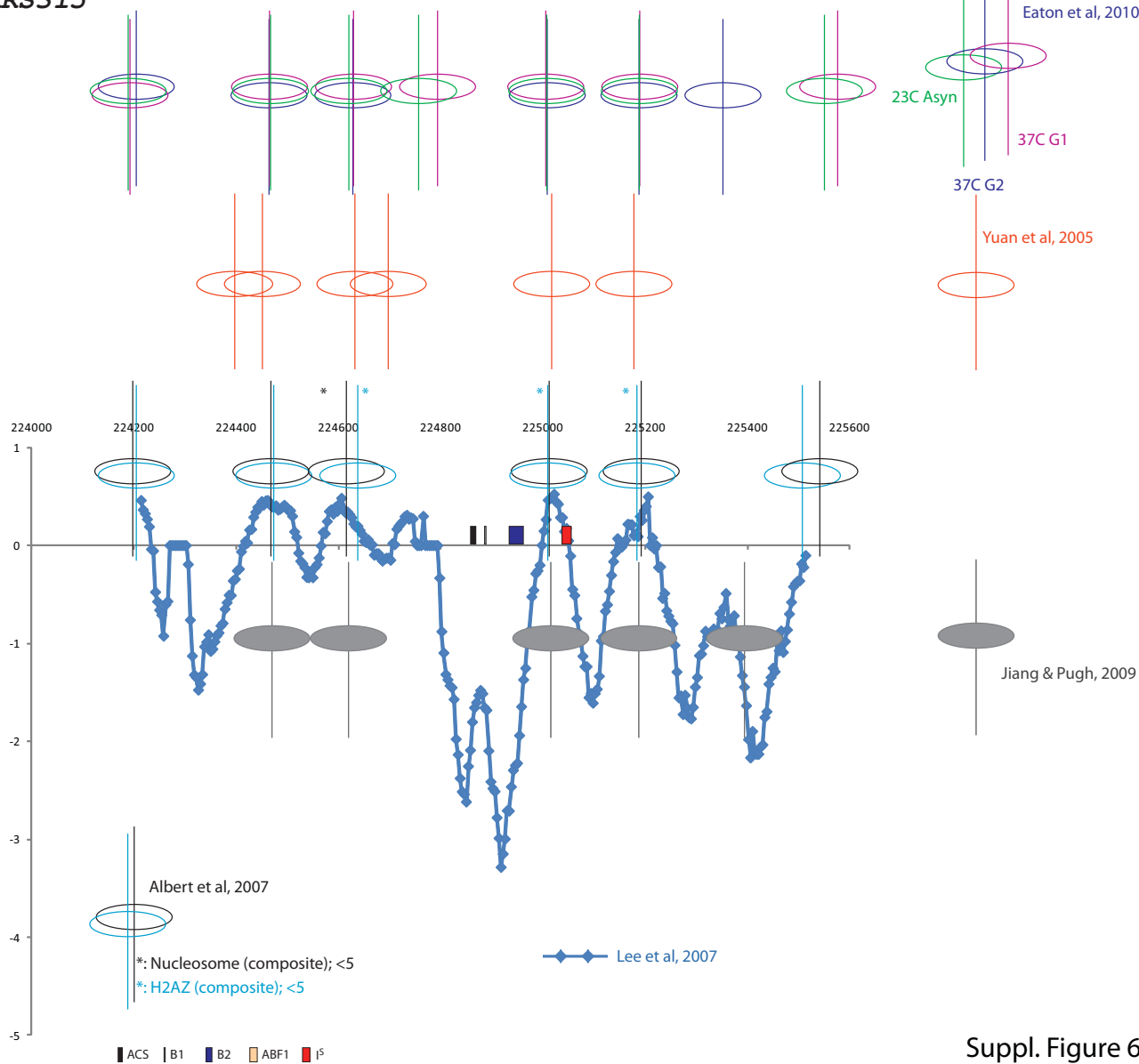


ARS307

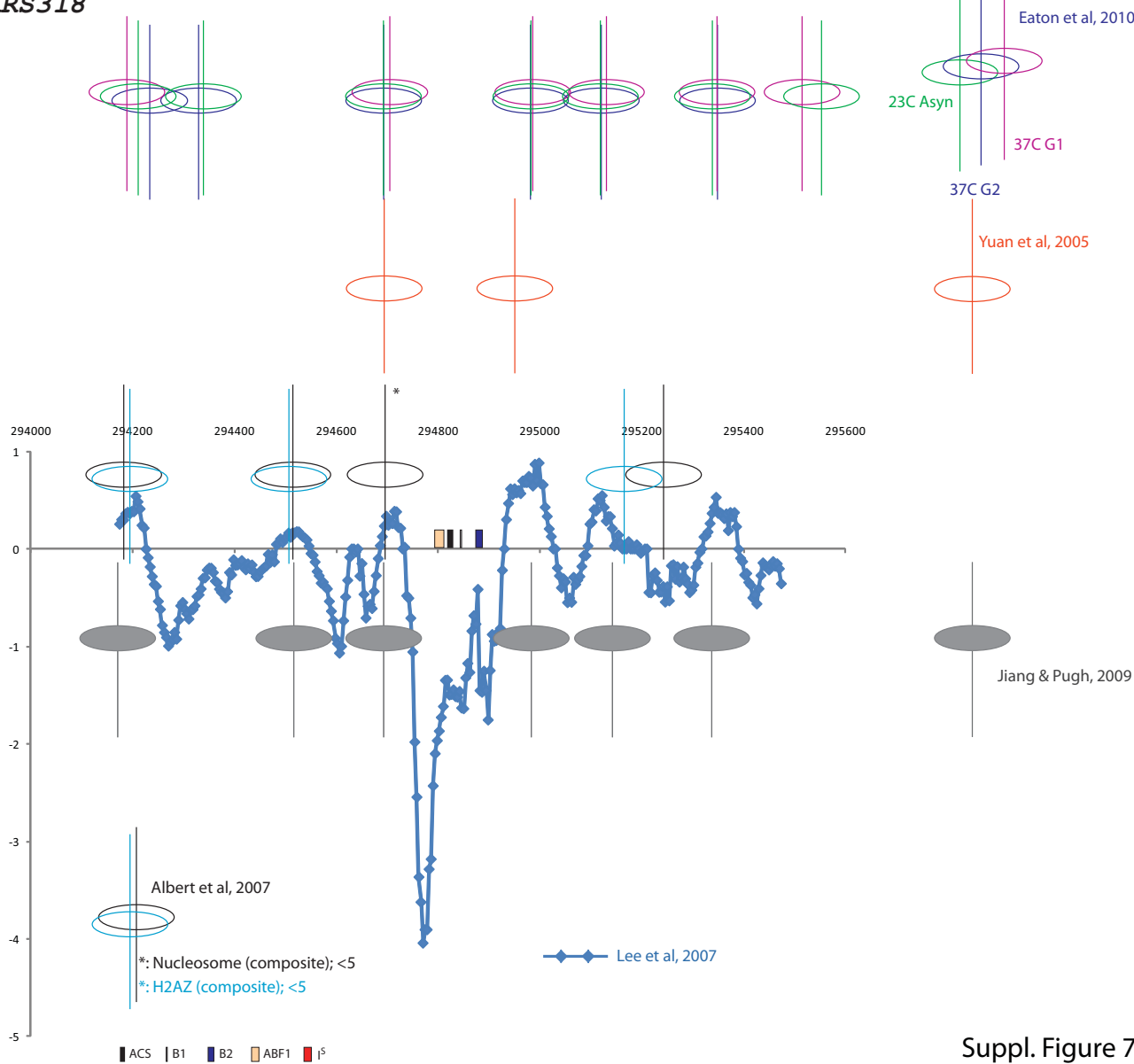




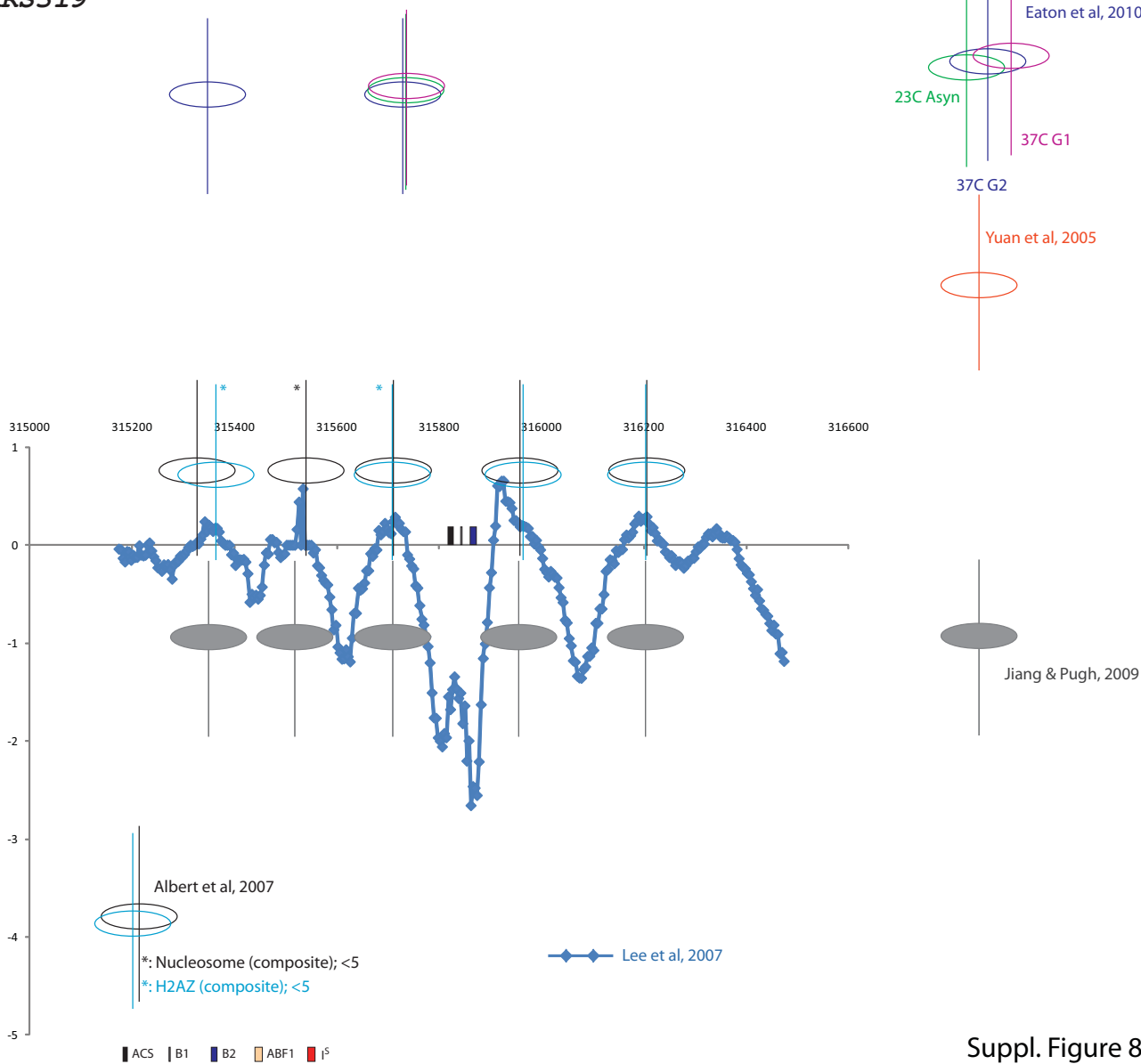
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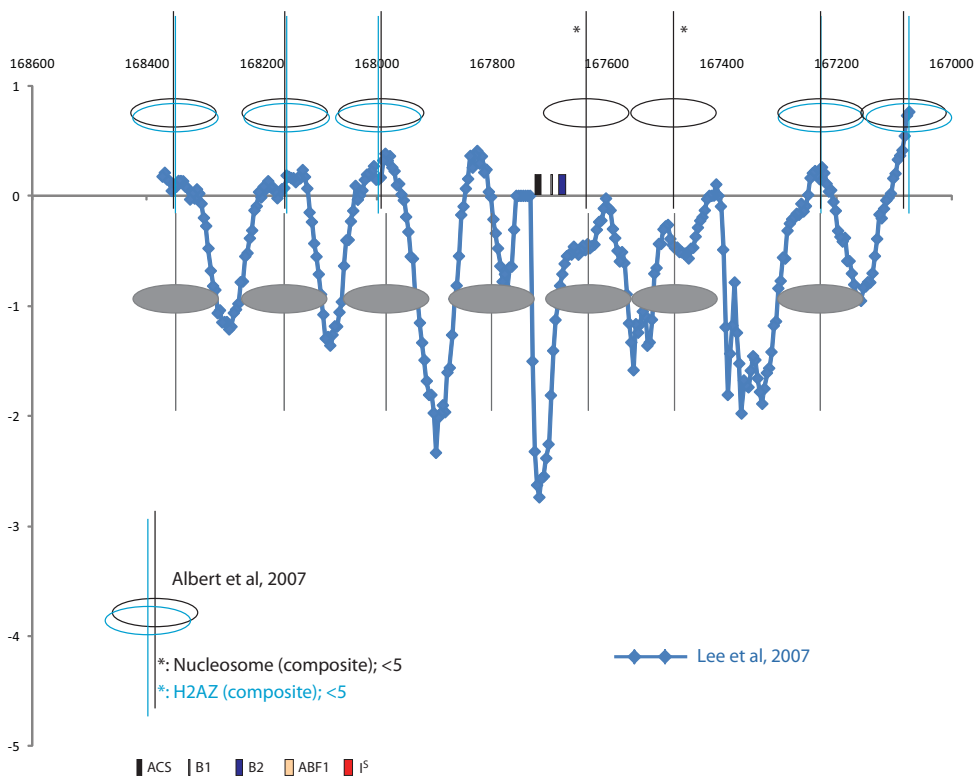
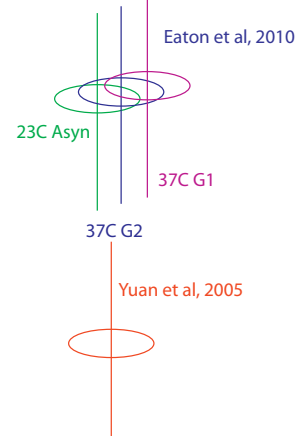
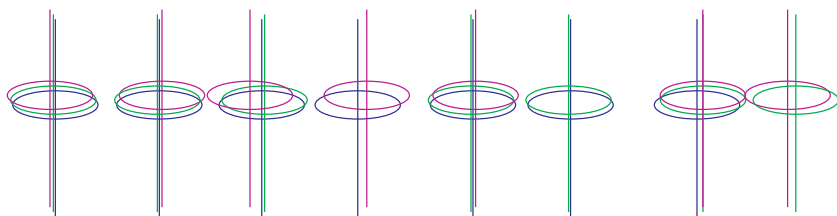
ARS318



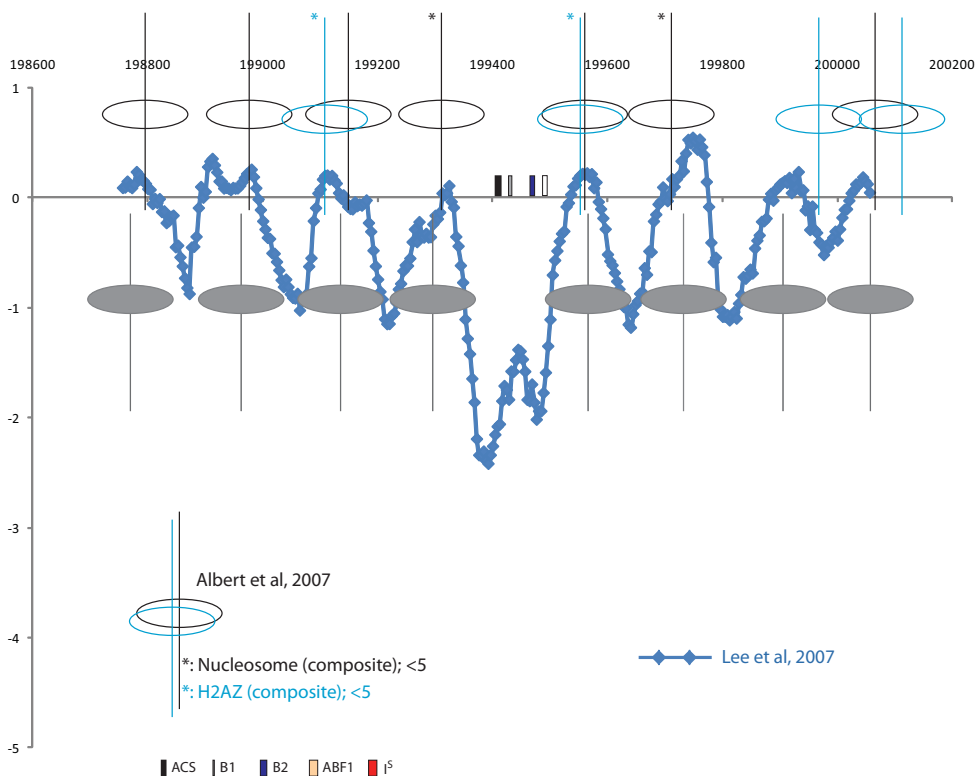
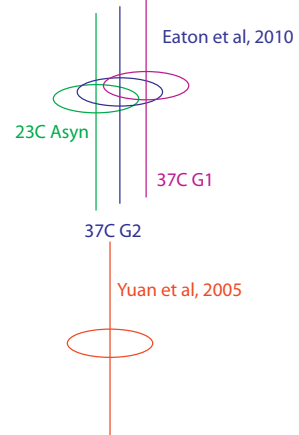
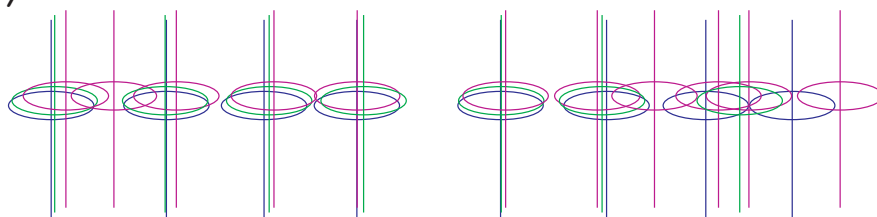
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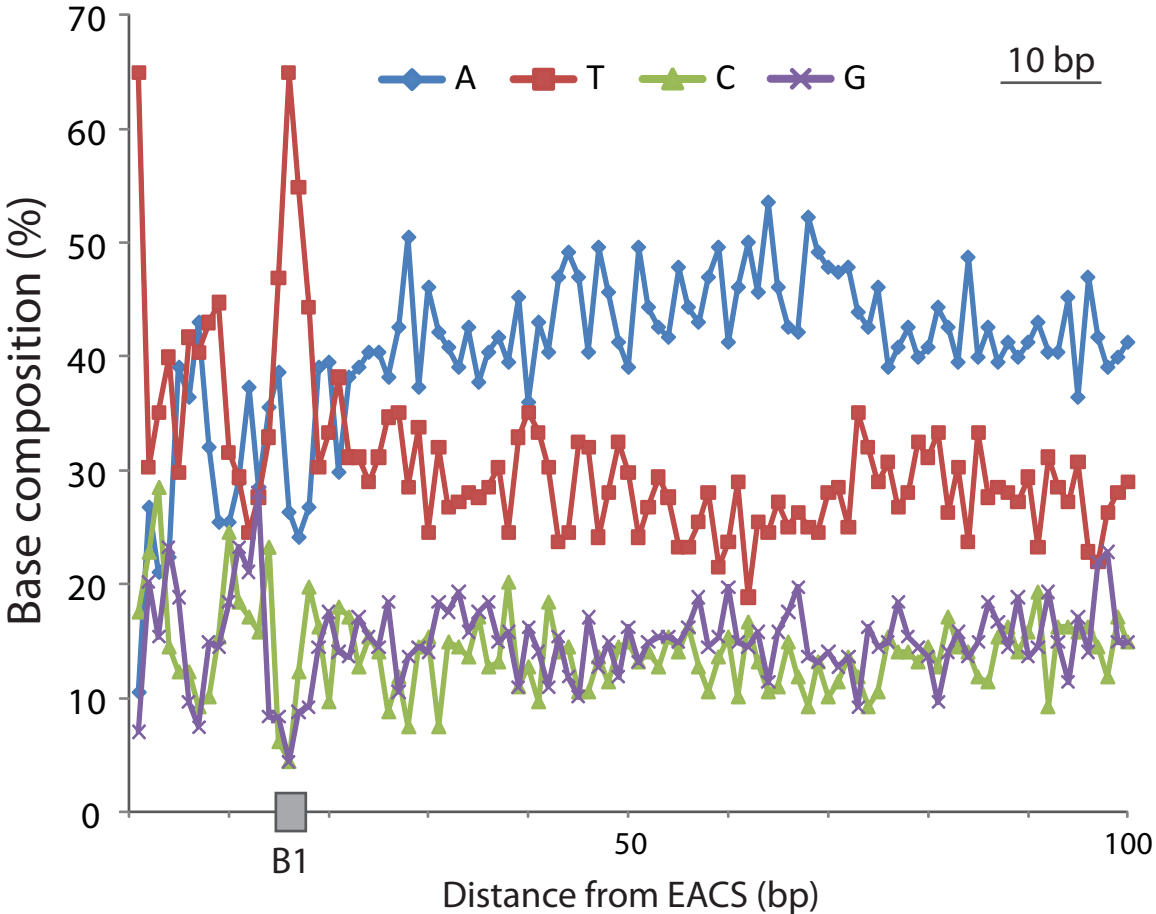
ARS606



ARS607



Jiang & Pugh, 2009



Systematic name	proARS	Chr	Position / bp	proACS	100 nucleotides after 15bp proACS
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ARSIV-1110	431.5	4	1110132	TTTTTTATATTTTTTA	TTCAAAAAATAACATTTCAAAAATTTAATTTTAATAAACTCATTTAAAAAAAACCTCTAAAAACATGAAGATAGAACTATAATAACGGCTT'CAAGTATTTCAAGA
ARSIV-1159	432	4	1159450	TTTTTTTTCTTTTTCT	AAGCTTTTGAAGAAAAAGTTAACAGCTTTACCCTTCAAAAGTTATTGTTTTTGTAGCGCTAGAAAGCGAAGTAGGCGCTCTTTCTCGCATAAGCTACCTTAGGAG
ARSIV-1166	432.5	4	1166170	TTATTTACATTTTGT	CGGAATATTTATTTCTTCTCTACAGAAAAATGAAAGCAACAGAATTGAATTTTCGACAAGTCAACAAACAACTTTGTAGACTTTTTATTACAAAAATTTATT
ARSIV-1241	433	4	1240919	TGATTTATATTTAGT	CCAAATATTTACAGAAAAAAAAGATGCCTAAGCCTTGGGTCTTATTTTCGAACAAATCCATCCATCGGTAACAATTCAAAAAAGAATATTTTCGTC
ARSIV-1276	434	4	1276267	TTTTTCTCATTTTTT	TATGTTTCCCCCAAAGTTCTGATTTTATAATATTTTATTTTACACAATTTCCATTTAACAGAGGGGGAATAGATTCTTTAGCTTAGAAAATTAGTGATC
ARSIV-1303	435	4	1302755	AAATATATATTTAGT	TAATGAAAAATGGAATTAACGAAAGAGAAGTAAAAAAATGAACATAAACACATATAAAAATAACAACCTGATACACACTATCTTAGTTTATTATTTTAAAA
ARSIV-1404	440	4	1404322	CTTTTTATATTTTGG	AATGTTTTTGTGCTAAAAAAATCATTATTCTGGGCGACATACAGTAAAAATAATTTAATATGAAACAAAGCGTATCATTTTGTAGACACCGATATCACG
ARSIV-1462	443	4	1461899	TTGTTTATAATTTGT	AGCCAAGTTGTAGTGATAAATAAATTTAGGCAGATATTTCTTATATGCTTGTAGTGGAACTTCTAGCATATTCAGTATACTTGATATTAAGCCTTTAAC
ARSIV-1487	446	4	1487091	CTTTTTAAATTTAGT	TTTTTTACTAGCTAATTCATTTACTAAACAACAAAAAGAAAATAGCACAAAATGGAAAGCAAAGAAATATCAATTAGGTCAAGAACCCTCCATCGAAGCT
ARSV-59	507	5	59469	ATATTTACATTTTGA	TACTGTCCATCAGATTTTAGTCACTAACATCTAAGTTAAGGAAGTAAGAGATT'CAAGTCCGGTAAGGAAAAAAGAAAAAAGAAAAAAGAAAAAACAAC
ARSV-94	508	5	94056	AAGTTTATATTTTGT	TGCTAGCGTTACGGTTATGTTTTTACGATACATATCGCCTAAGCAGGTCTCTGCGCCTAAAAAAGTAAACATATAAATTTGGGAAAGCAATATAATTTAA
ARSV-146	510	5	145713	AGTTTTTGTTTAGT	TTTTTAATCTGGATATTCAGCAGCTATTTTCGGCAGTGCACACCCGCAAGAAAAATATACATAATGCTACAATACTCCTAAAAATATTATATAAAGTATGAA
ARSV-174	511	5	173807	AATTTTATATTTTGC	CTTGAAAATTTAATCATGAAATTTATATCTGTAAAGGAAAAATTAGGGAATGAAATACAAAACAATACGAACATAATCCGTAAGGATATAAATAATCCAAATAC
ARSV-212	512	5	212455	AAAATTATGTTTAGG	TAATGAAAAATAGTAAAAAATGCTTCCCTTAAGTTAATTATGAATTTCCCTATTAACACACATGCGTACACAAAAAAGTATACGGAAACTATATTAGA
ARSV-288	514	5	287565	TTATTTATGTTTTGT	TCCAGCGGGCATCTTTCAATAAAAAATGAACTCAAGAAGAAGTAAATAATAACAAGCTATAATGGGTGGCCATTTGTGATCAAATTTGGAGTGAAACACGT
ARSV-354	516	5	353582	ATATTTACTTTTTGG	TGCGGAAATCTGTAATATTTTAAAAACAATCTCATCCTTTTGAAAAAGAAACGATGAAGAAAAAATAATAACATACATTGTACCTTCACTAACACTTG
ARSV-407	517	5	406902	TTTTTTATATATAGT	CCCCTCTCAAGTGAATTAGAAAAGTAAAGTATACACGCAAAAACAAGGGCGTAAATAAAAAGAAAACGAAAAAGCAACTAAATAAAAGCTTACATCCAAGT
ARSV-439	518	5	439101	TTTTTTAAGTTTTGC	GCCTTTAGCTCATGTTTAGTTTCTGGTGGGGGAAGCGGTAATTTATTTTAAAGTAGCCAACATAAGCAAATATATGGAGAAAAAGAAGAATACCGTCGGA
ARSV-550	522	5	549585	TTATTAATATCTTGT	TATGATTTCTTGTTTTAGCAGCTCCAAAAGAAAGGAATATTATAATATAATTTGTTGTAATTCGGAAAAAATATTTAAATTAATGTTGATATGCGTA
ARSVI-168	606	6	167731	ATATTTATATTTTCG	TTTGCAATTTTCGCAATTTTAAATATGTCACAAAAAAGCGCCACAGAATTATCAAGAAGACCAACCAATCAATAATAAATTTCCGCAAATAACATTATT
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ARSVI-216	608	6	216469	TTTTTTACTTTTAGT	TTTCTTCTATGCGCAAGCTTTTCTATTGGCTGCCAAATAGAAAATTTATTGAAATATGATTACATTACAATATTTTATTTGTCTTATGAAAAGTAAACATCA
ARSVI-256	609	6	256374	TTTTTTATGTTTTTT	CCGGAATTTGGCTAAAATTCACAAAAAAGAGCATAAAGCGAATTTGAATTTGCTCGCCAAGAAAACGCACTGAGAGGACGATTGATCCTCCAGACAAGAT
ARSVII-64	702	7	64457	TTTTTAATATTTTGT	TTCTCGTTTTGCTTATTTAATTTTGTGACATGTAATAATTACGAAGCCTATTGGGGCCAAATGAAAGTAACTAAATATAACAATAGTCTTTGTAGTT
ARSVII-112	704	7	112127	TTTTTACGTTTATG	TCTATTTCAATGCAATTTACGTGAAAAATAAAAAGAACGCTACCATAAAAAATGTTAAAAAAGTGTAAAAAATGGTCCGAAAAAGTAAAAAAT
ARSVII-163	707	7	163240	CATTTTATAATTTGT	TGTTACAAAACAGTATTTTACAAAGTCATAATAAACGTTTCAAAAAACAACACAATATTTAAAAAGAAATGGTATTAGGATCCGACATGACAATTAAGTATGATC
ARSVII-204	710	7	203975	TTTTTTATATTTATT	AAAAGAATAAAAAGTAAAGTGCAGAAAAGAAAAACAACATCATAAAAAATATGAAAAGAAAAAAGGCAATGTTAGTGTATGAAGGGAGAAAAAATACCGTA
ARSVII-286	714	7	286007	TTATTTACTTTTAGT	CCGTATACTTTTATTTTGTTTTGTAGACAATCTCGAAGAACAACAAAAAAGATAAAAAACAGAAAAGATAAATGTGCACTCTTTTGTACCTCGTTCTGCTA
ARSVII-353	716	7	352864	TTAATTACGTTTAGT	TTTCTACTGAAACTTTTTTTTTTAAAAAGACCTTGAGAATTTTCATCTCGAGAATAATGAAGACCAATATATAAGTAATGAATCATAAAAAGTACAAGAGCAG
ARSVII-389	717	7	388847	TTATTTAAGTTTTGT	TCCTAATTTATGATTTAGTATTTACTGGTCTGCAAAAAATAGGAAAGGTAATAAATAAGATTTCGGGTATATTATACATTATAAATGAGAAGTAAACCGGTT
ARSVII-421	718	7	421284	AAATTATTGTTTAGT	TTTGATTAGCTTTACTTTAATTCGCACAAAAAAGCCTGCATTTGTCACGAGAATTTGAAACATATACAAAAACAATTTGAAATAGAAAACAAGCA
ARSVII-485	719	7	485113	TTATTTATGTTTTGC	CGTAAGATCGATACTTTTCTTATTTCTCATCAAGAAAACAACAACTGCCAAGAACTAAGAAAAGAAGAGCCGTAAACAATGCTTTGTAACCGAAGTATGAA
ARSVII-509	720	7	508909	ATTTTAATGTTTGGT	TGTGAATTTGAAAGAATACCATTTCGGGCACGCAATAGTTATGAACTTAACCGAGCTCAAATAATTTAAAGATAAAAAGATAAAAAGATAAAAAGACA
ARSVII-569	721	7	568661	GTATTTATATTTAGC	CCCTCCTCAGTCTTTTGTTCAAAAACGTGAAGCAGAAGCTCTTGTGTGACTATTTGAAAAGTATCGCTATAGTAATCACCAGAACTACAAAGTTC
ARSVII-575	722	7	574702	GTATTTATGTTTTGT	CATTTCTTTTCTACATAATCTTGAAACTAGGTAGATCTACAATTTGAAAAGTAAATACTAACATTATTTACTAAATTTAAGTTAGAAATCGGCACGAAAAA
ARSVII-660	727	7	660002	TATTTTATGTTTACT	TATGTTAACCTGCATTTATTTCCATAAATAACAAAAGGCAAAAAAGTAAACAAATGAAGTTATTAGGAAAACAATAAAAAACAATATCGAGAAAAAACGCAC
ARSVII-715	728	7	715315	TTGTTTATATTTTGT	TTCTATAATAATGTATTTGAAGATATAAAACAACATAATTTTACTGTTAACATTTAGGCGCAACAAAAGGACGATCTTTTTTTTATTTATCACAAAGTTAAAG
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ARSVII-835	731	7	834667	TGTATATAGTTTAGT	TACCATTTCCGTACTTTGGATGTAATAAATAAAGAGAGACATTATTTTTTAGTTGCGAATACATAACAGCGAATGTTTCATGGGGAAAAAGTTAAAAAC
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ARSVII-999	734	7	999470	TTTTTTACTTTTTGG	GCTACATTAATCTTGAAAAAGTTTCAATGTTTTGTTATTTCTTTCTCACATACTTTATAAAAAAAGATAAATTTTTTAAAAAATAAATAAACAAGTGG
ARSVIII-8	802	8	7754	ATTTTATATTTTAGG	TGATTTTAGTGGTTATTTTCTATAACAAATATTGAAAATAAGTGTTTTTGAAATTTAGTGGTTATTGTATGGTGTAAAGTGATAAAAACATATGCGAAAAG
ARSVIII-64	805	8	64300	AATTTAATTTTAGT	TATTGATTTCAATGAAACAAAAGGAAACTGACGGCTTCTTAAAATAAATATATTTAACATGAAACATTTAAAAAATTTGTCACTACACAGAGAGAAAAT
ARSVIII-134	807	8	133530	ATTTTAACATTTAGT	TTGTGATTTCCGGTAAAAGGGTAGTGTGTTTTTTTGGAGAGCCTTTTCTGACGGACAAATGGTTCGAGGAAATATAAATTTATATTTAGTAATACGCAAT
ARSVIII-169	809	8	168596	ATTTAGACATTTAGT	TTAGTATTTCTAGGTGCTTAAATAATGAATATTGTCTATAGATGACTAATCATAAATGAACGAAAAGAAAGAAATTCAGAGGGCGATAACAACTTCCGCGG
ARSVIII-246	813	8	245789	TATTTTATGATTAGT	TGCAAAACTTGAAAAACAATAGAAATTTTATCACATAAATGAAAGATAATGAACTCTTTTTCAGTCACTTATGATCCATGTTTTTTGAAAGAAAAGTTTACGA
ARSVIII-392	818	8	392253	CTTTTCATGTTTTGT	TGTAGAGAGCCATTTAAAAACAAGATGTTTACCAGAAAAACAAGAAAGATCAAATAAGTGAAGTAAATGAAATGCTGTACCTTCCAATTTCTCGAACT
ARSVIII-448	820	8	447792	ATGTTTATGTTTTGT	GAGTAAAGTCAAGAATTTGTCTTCTTGTAAAAACTACAAAAATAATGTATGCAAAATAGTATAGCAAGATCATTTTAAATAATTAATGTTATAAACGTT
ARSVIII-502	822	8	501945	GTTTATACATTTTGT	TTCTTTTTTACCAATATTCAACTTCTGAACACATAGATTTTAAATTAAGATACAATTTGGCGAACTTAATTTGCAACGATTTTACATGTAAGAAAATTTGTG
ARSVIII-556	824	8	556137	ATTTTACGTTTAGG	TGATTTTGGTGGTGTATTTTTCTATAATATTGAAATAAGTGTATATAAATTTGAGTGGTTAGTATATGGTGAAGAAAAGTGGTATAACGTATGTATTAAGAGCA
ARSIX-106	909	9	105966	TTATTCATGTTTTCT	TTAATTTATCGAGCTTTTGAAGGTGAGGTAGTTTAGGAAAGTGAAGGCTGATAAGTAAAAATTTGGATTTTAGGGAAAACTAGATCCAGGATTGGTACTATTT

Systematic name	proARS	Chr	Position / bp	proACS	100 nucleotides after 15bp proACS
ARSIX-136	911	9	136287	CAGTTTATGTTTTGT	TTACTTTGGACAGCCAAAAAGAGAAAAAGAAAGGTGAAAAATTTTTTATGTGATCTCTTCAAAGAAATTTAGATACTTTAAATGATGCCGTACGTCTTTGTT
ARSIX-175	912	9	175170	TGTTTTATGTTTTGT	CTGGAAAAACATATAGTACGGATATTTTTGAAAACTTTGAAATAATATGTAAATTTATGTAAAAAAATTAAGAACCATTATAAAAAAATATTACAAAA
ARSIX-215	913	9	214732	TAATTTATGTTTTGT	AAAGAATAAAATGAGTATGATGAAGGAATCTTACCTCTATTAACCTATTTCTTCTTTTTTTTTTCTTCCGATAAGATGTGCGCGAATTCAATATGGAAGAAA
ARSIX-246	913.5	9	245879	TTTTTAATGTTTTGT	CCTTATAACCGCAGCTTATTCAAAGAAAAAAGAAAGTCCCATGCAAAAAATCTTGTCAATTATTGCGAATGGATATATCAGTGAGACCTTTTTAAGGTTGTA
ARSIX-248	914	9	247751	TTTTTAATGTTTTGT	CGTCACAACCGCAGCTTAAATAAAAGAATTCACGCTAGATTTCATGCTACTATCACGAACAATACGTACCAATTAAGCTTTCTTGGTGTAAATAAAAAAG
ARSIX-342	919	9	342028	TTTTTAATGTTTAGC	TTTCAAAAAAGCTAAAATAAACCATAGCGTTATTCTTATTATATTGATAGTAGAAGAGGAAGAGTGGTTATCTTTACTCAAATTAACGATTGCTTTTTAT
ARSIX-357	920	9	357222	ATTTTTATATTTGT	TGCTTCAAAAAACAGTGCCGTATCCTTAATGAATGAAAAATCTAAAGAAAAATAAGTTGATACTAAAAATATAATGTCTTGAAGTATTTATGCGATATAT
ARSIX-412	922	9	412000	ATTTTAATGTTTTGT	CGTGAAGAAGAAGAAGTAAATAAAGTAGCGTGGGGATAGCGAAATGAAAAACATTCAATTATCAAAAACAAAACTTTTTAACTACATTTATACCTTTACTTTT
ARSX-8	1002	10	7731	ATTTTTATGTTTAGG	TGATTTTGGTGGTGATTTTTATGTAATATTGGCATAAGTGTATATAAATTAAGTGGTTAGTATATGGTGAAAAAGTGGTATAACGTATGTATTAAGGGCA
ARSX-68	1005	10	67713	TTTTTATTTTTTTT	TTGGAATGTCGCGCCAGGACAAAAACATATAATTTATTAGCCTAGGCAGTAAATAGTAGGCGAAAAAGATTGAAAAGTATTATACATGTGGAAATTTAT
ARSX-100	1006	10	99505	TTTTTAATTTTTTTT	TTTTAATTTTTTTTTTTTCATAGACTTTTTATTTAAATAAATCACGTCTATATATGTATCAGTATATAACGTAAAAAACAACCCGTACAGTTAAACAAA
ARSX-299	1010	10	298616	TTATTTACCTCTTTT	CCCAGCAAGCGGGCAACTTCTTTAAGAAAAAGTAATCTTTTTTGTACGTGCAATTATCAAAGCTTGGTTACTATATTTAACATTATTGTTTAGTAACAGTA
ARSX-337	1011	10	337048	TTTTTTATGTTTAGC	TAAGTAAAAAGCAGCTTGGAGTAAAAAATAAATGAGTAAATTTCTCGATGGATTAGTTTCTCACAGGTAACATAACAAAAACCAAGAAAAAGCCCGCTTCT
ARSX-375	1012	10	374639	TTATTTATAGTTTCT	ATCTTTCAGCTTTCAAATAAATAATATATATGGCGCTTCATGAAAAAGAGAGCTAGCTACAGAAATATAAACAGTCATGGATGAATAGGCGGCGGCAGCTAT
ARSX-376	1013	10	375580	TTTTTTTTGCTTTTT	TAAAGACTATAAAAGTGTAAACTGTCAGTAAAAAATAAGACACCACAAAAACAATAAGTGAAGATAAAAAGAGCCTAGTGAAGTAAACTAATTCAAATGAG
ARSX-417	1014	10	417089	TTTTTTATATTTAGT	TTACTTTCCAGTCAATTTCTTTCCGCCCTTTGCATCTATAAATTTAAATAGAAAGGATAAAAAAGTGGTTATGAATAGGTAAATAATACTAGAGTAGGACGA
ARSX-540	1018	10	540302	ATTTTTACATTTAGT	AATATCTAATAACATATACACAAAAAGGGACAGATTTTTGAATTAATAAACAAGCGTAAATCAGTATTGCTCTTACCAGCAGTAGGGGGAGTTATCTA
ARSX-613	1019	10	612772	TTTTTTATCTTTAGT	TGCCATAAATACTATTTATTTTCGTCATTTTACAACCTCTTTTATATACACCATTTCGATTTCCCACGAAGTAAAATAATAATTCTATAAACAGATTTATCT
ARSX-654	1020	10	654244	TTATTTACATTTTGG	TCATTTGAAAAACTTTACTTAAAAAGACGAGGAAGAAACTGTAAATCCATAGTTTCGAGAGTTGAAGTGCCTTCAAACAAAAACTCCTGACTTTTTTTT
ARSX-684	1021	10	683706	TTGTTTAACATTAGT	TTCAAATTAACAGCTTTTGTGAGAAAATATATTTTGGATGAATAGCAGAAAATAGAAATCTGGAAATAAACAAAAACAGAGCCAAAATTCTAAGCTTAATA
ARSX-712	1022	10	711661	TTTTTAATGTTTCT	TAGAAAAATTAAAAACTTCTCAATTAATGTAATAAATTTACTTGTGGCGATACTTAGAGGATTCAAATTTAACTAGTGTAAATATACGAACTGGTAA
ARSX-730	1023	10	729813	TTTTTTACGTTTCT	CCATATTTGCAATTTGTTCTTCTTCAATCAAAAATAAATAAAAAAATAAATCACAAAAATGACTATAGTATTTTGGAGCCCAACATGACTGCGAAATTGCTA
ARSX-737	1024	10	736905	ATTTTTATTTTTCGG	TGTTATTTTCAAGTATTACTGCTTTTTGAATTGGTCTATATATATGGACATGAACCAGTGCAGAAAAGTATTCACTTTTCATTTCAGGACCAAAGATAATAG
ARSX-745	1025	10	744632	ATTTTTATGTTTAGG	TGATTTTATGTTGATTTTTTTGTAATATTGGCATAAGTGTATATAAATTTAGTGGTTAGTATACGGTGTAAAAGTGGTATAACGTATGTATTAAGAGCA
ARSXI-56	1103	11	55865	TCATTAATGTTTAGT	TCCGAGCGTGACGTTACTAACTGCGAAAAAGTTCTTTCGACTAGTAAATATCAAAGGCGAAAAACATAAGTATATGGGAGAATTATAACAAGTTAAGTGA
ARSXI-98	1104.5	11	98386	TTTTTTATGTTTAGT	GTATATTTGCTAGAAAAGAAACAAGATCTTTTTTGGTAGTGTAAATGCTTAAACTTTGTCTCTTTTTTCTTTTTTACTTTGGAAAAATGCCGACGCAAGAAC
ARSXI-153	1106	11	153121	ATTTTTACAATTTGT	CACCGAAATAGCAGTTTTTTGTTTAAATTTTAAACGCTATGGGGTAAAAATTTTGGGCCCAATTTCAACTGAAAAGAGAGATTTTTAAATATGATAAGATAA
ARSXI-196	1106.3	11	196213	TTTTTCATTTTTTGT	TTGTATTTTCCCGTTTTGAAAAACTCCCACTTTAATGCAGGACATCGTTCAAACAAGCTTTAAAGATTTGACAGTAAAAATCCTCACTTTACTCAAGACA
ARSXI-213	1106.7	11	213308	TTTTAAATATTTAGT	TATFGAATGATTAAATTAGAAGGATTGATCATAAAACAACAAGAGAAAACAAGAGTATGGGGGATAATTAGTACTTTTCACTTTCTTTTACCTGTGTACGGC
ARSXI-329	1109	11	329499	TTTTTTATGTTTTTT	TACGTTTTGAGATCATAAATATTTGAAAAATAAATAATCACAAATTCATAACAACCTCTTTTTTTTATAGATAAAGTAAAAACACAGTTATGTATGTAAAGTA
ARSXI-389	1112	11	388662	TTGTTTATGTTTATT	TGTAAAAATACATTTAATTTCTTTGAAAGTAAAAACTTTGAATTTCTGAAATAAATAAAAACTAGAGAAAAATTAACGATGAGGCATGCGACGGAAAT
ARSXI-417	1113	11	416878	AAGTTTAATTTTAGG	TGTCGGGAGAAACATTTAATCCCTTTTATGAATATAAATTTAAGTACTAAAAAATCACATAATTATACAAAGTAACTGCAATTTAAAGTACGTTTAA
ARSXI-448	1114	11	447837	CTTTTTATGTTTTGT	TCTTGATTTTAAACTACATTTAGTTTCAGCTCTTTTTTCACTTATTTTTGCACATGGAAGATCAAATACATGAAAAGTACACAAAAGAACAAAACAAAAGCC
ARSXI-517	1116	11	516680	TTTTTTACTTTTTGT	TATTTTATTTATGTTTTTCTAGGAAATGTAAAAATAAATCTTTTATGATAGACAGCGAGATGAAAACCTAATCTGTGTGAGCTTCAATCAATCAATATGATTT
ARSXI-582	1118	11	581532	TTTTTTACATTTAGT	TTCAATTTATGCAAAATTAGAGGGTATACAGTTGAGATTTTAACTTTGAATTTAAAAAGTGTACAGAGGAAACCGACGCAAAAAGGCTTGGTGACGCAA
ARSXI-612	1120	11	612045	TTTTTTATGTTTTTG	GCTCCTAGAGGTGAATATTTTTCTTTTTCTTTCGAGCTATATACTAAATATTAGTATATAAACAGCAAGAACTATAAACCTAAAAGTAGCCAAAGC
ARSXI-642	1123	11	642412	GATTTTATATTTAGT	TGGCGAACTAGCTCATCCTAATTATAAATAAATTTAATATATAGCATAAAACCGACAATAATGCGTGGGTGGTCTCCATGCCGAATTTGTGAACTGAATTA
ARSXII-91	1206	12	91466	ATTTTAACGTTTAGT	TCATCTTGCTGTGAATAATCTAAAAGTAAACAATGGACAAAAAAGTCCACTGGACGTCAAATCTTTTTTTTATTGTATTTGGGACATATGGCGTTGATAAC
ARSXII-157	1209	12	156700	GATTTTACTTTTTGG	AAGGGCTTTGGACAATTTAAAAGAAAGATAAATTTGAAAGTACCCCATCAAATGCTAGAATGAAATATTTAATATACTAAATTAAGGCTGGTATTTAAAAACGT
ARSXII-231	1211	12	231250	TTGTTTATATTTTTG	TTCAAAAAATGAGTTAATAATGATTTTTTTCATCTTCCGGCTTACCGGCTTTGAAAAATATTTGTTAAGACAACAGTGGATAAAAAATAAACTAAACAACCTCAAG
ARSXII-289	1212	12	289421	AAATTAATGTTTTGC	TGCTTTTACTGTGCGGTTTAAACAGTTGATTTTTCCCAAAAAAAGAAAGTAAACAGCATCTATATAAAGAAGGATATAGATAACATGCACATTTTTCG
ARSXII-373	1213	12	373328	TTTTTTATATTTTCT	CCGTATTTATGAAAAATCCTCTTCGGTAAAAGCACAGAATTAGACTTGAAATGTAAACAATATAAGACAGACAAACCTTTATCGAAGATAGAAGTGTCTGA
ARSXII-413	1215	12	412854	TGTTTTTTGTTTTGT	TGTAGTATTCGAGCATTAAGGATAAAAAAGCTTGTGAATAAAAAATCTTTCGCTAAAAATCAATATAAGAAAATGGTAAGCAGCTGAAAGATAATAAGGT
ARSXII-451	1216	12	450660	TTTTTTATATCTTGC	TTATAAAGCAGAAGGTGATTTAATTTAATTTTCGCTGTGATACCATCCATTAACCTGAAAATTAAGTACAAACAGAAAATACGTTAGATAGTATGTTAACGAAA
ARSXII-459	1216.5	12	459091	TTGTTTATGTTTTGT	GTGATGATTTTACATTTTGCATAGTATTAGGTAGTCAGATGAAAGATGAATAGACATAGGAGTAAGAAAACATAGAATAGTTACCGTTATTGGTAGGAG
ARSXII-513	1217	12	513085	TTATTTATGTTTTTG	TCACAAACGCGCACATGTTTGTAGGGAGTAATGTCATTGTCAAACAAAACACATAAGAAAAACATGGTGAGATTATTAAAAAAGTGTATAAGTTTATAAAA
ARSXII-603	1218	12	603110	TTTTTAATGTTTATG	TTCAACATACCCGAAACACTACAAGACGGAAAAATACTAGAGAAAACATCAACAAATGAAAAAAGGCTACAATCCTCGGATGAAACTGATAAAAAACGA
ARSXII-660	1220	12	659892	CTTTTTATGTTTATT	TCATGGATTACGAAATTTGCTGGCTTTTTTATAGTGTACCGATGAGTTGCATGTACATATGTGCGAAAATAAACAAATACGGTAGTAAAACATGAATACTTCG
ARSXII-745	1223	12	745115	ATCTTTATGTTTTGT	TTGCCTTTACTGGCCAGAAATTTTATACTTATTTTTGAATAGAACACATTAAGTTCTACAGGTACCTGCAAAATATCGAGACAAAAGTTTGAACGAGAATA
ARSXII-794	1226	12	794207	AAGTTTAAGTTTAGT	TACGGGGTTAATGTAATGCGAAGGAACCTAAAAAGAAAGGCTGAAATAATCAACCAATAAACAAACCATTAAGAGGTTGAAATAATTATGATCAAAGAA
ARSXII-889	1227.5	12	888741	TTTTTTATGTTTAGA	TGTAAAAAATTAATTTTTTTTTTCAAATATGCTGCCGTGAAAAAGAAATCAAAATAGACGATTACACAATATTTTGAATAATTACATGAAGAAAACATTAATTA
ARSXII-1007	1232	12	1007235	ATTTTTATATTTTGT	GTTTGTCTAAGGTTAATCGTTTCAGCTAAGTTAAAGCTAAGTATAAGAAAGCAAAAAATACTAAATTTATACTAAATTTATAAATTTTTCGTACATAAATAATCA
ARSXII-1014	1233	12	1013785	TTTTTTATGTTTTCT	CGTTTCTTTTTCTTTTTTTTTGTTTTTATATCTTACACATTTTTAATACTAAAGTAAAAATAAAAAAATACGTAAGTTTCCCTTTGTTTTCTCCTCCTCT

Systematic name	proARS	Chr	Position / bp	proACS	100 nucleotides after 15bp proACS
ARSXII-1024	1234	12	1024151	TTAATGATGTTTAGT	TCTGAAAATAACGATTTTTTTAAGCGCTTGGCAATTTTCAACAAGAAAAAGGTGAAAAAAGAAAAATAAGATTA AACGATGAATGCGATTTTTTTGTTTCTGTTA
ARSXIII-32	1303	13	31767	TAGTTTATTATTAGT	TGCCAAAAACGAAACATTTAACATGTGAATTA AAAAATACAAAAAAGCCTATTAACGATCTAAATTTATGACAAAAAGACATATAATTATTTTTAATGATGC
ARSXIII-94	1305	13	94390	TTAATTATATTTAGA	TATATATTCGTATTTTATTAATAATTAGGAGGAATAAAGTCCGACATTTTTTTTCAAAAAAATAATATTTTCAACAACGAAAAATCTATAAAATAAAA
ARSXIII-137	1307	13	137321	ATATTTATGTTTTGT	TAATCTCCTCTACCCCTTTCAATGCTTTGAAAAATACTTTCAACTTTTTTCGATTGGGTGATGAAAAAAGACAAATAGTGTAAAGGGTTCAAAAAATAAATAAC
ARSXIII-184	1308	13	184017	TTATATATGGTTAGT	TAACCTCTATGTTCCAACAAATACCAATAAAGATCGCGCAAGTGGTTTTAGTGGTAAAATCCAACGTTGCCATCGTTGGGCCCCCGGTTTCGATTCCGGGCTT
ARSXIII-263	1309	13	263126	TTTTTTATATTTGT	GATAAAGGGATAACTCGTCTTGCCCTTCACTGCGCTTCGATTCTACTTTAGCTAAACTAAGCGTTACTTTGTTTTGAGAATCTCTCAGCCGTTAAATCAACG
ARSXIII-287	1310	13	286845	TTTTTCTTATTTAGT	TTTTGTAGGCGGCATAGTATTACTTGCAGATTTTTTTAAAGTCCCTGAGCCCCAAAGTTCCAAAGCAACAAAAAACATAAATCCTTTGCAGGAAAAGTA
ARSXIII-371	1312	13	371020	ATTTTATTGTTTAGT	TCATGATAAAAACTTCAAATCACTTTAATCTGGTAGACAGAGAAAACAAATCGAAACGAAAATAGAGA ACTACGAATAAAAAAATATAAGTGGAGAAG
ARSXIII-468	1316	13	468236	TTTTTTATTTTTGT	TCCTAATTTTTTTTTTTTTTACATTTTATTAGCTATACACTTGGCGCAAGGATATTTTATATACCGGATATAATAGATAATTA AAAAGACTACTAATTA AA
ARSXIII-536	1320	13	535769	TAATTTATATTTAGT	TTAGGATATAGATTATCCTAGGCTTTAATATTTTAAATGGAAAAAACTACAATAAGATTGAAACAAAGAACTTTGGATAAAAAAACAAAACA ACTCTGTAG
ARSXIII-611	1323	13	611318	TTGTTTATGTTTATG	TTCTTTATACTCAAAATCAATAAGTGCTTATTTTAGCGAATTTTCTTCTACGAATATATATAAGTCATATCTAAGACTTCCATCCGTGCTTTATTACGTT
ARSXIII-635	1324	13	634522	ATTTTACTATTTGT	AATAATGATTCTGCTTTACGCGCCTTTAAAAAGTTGGTCTTAATGTAAACATGAACCATAGCACACAATTTAAGACATCAGCTGTCAAATGACCATAAA
ARSXIII-649	1325	13	649361	TATTTTCATATTTGT	TGACATTTGAGAGCTTCAATTGTATAAAAGTTGCAAGATAATATATGAGGTTAGGGGAAAGCCGGATAAAGAAAAATAGAGTACTTTAAA ACTGTTTCATGGACT
ARSXIII-758	1327	13	758417	AATTTTATGTTTTTT	TCTTCGTTTTTGCGAAAAATTCGCATGAGTGTCTCTGTATATATATAAACA AAAAGATGAAAAAAGGGGAAAGGTAGAAAAAACCGCGCTAAGTTTTTGGCAGT
ARSXIII-773	1328	13	772677	TTTTTTACTATTACT	TTCTTTTTCAAGCTTTTTAAGCGCCGAAATGATATTTAAGGGGAAAGTACTAAAAGGGACAGCGACGAGGATTCAGCCTGGACAGTGATAGAAAAGTTATGC
ARSXIII-805	1329	13	805162	ATTTTGTATTTAGT	CTTTGTTTTCGAACTTTTATTAATATTA AAATTTTCAGTAAGTAAATTA AAAAGAACATCTTTAAAAGAGTATATTTATTGTTACATATGTTGATCTTAAAAG
ARSXIII-815	1330	13	815391	AATTCATGTTTTGT	TCCTGAAATCTCGATATTTTAGTA ACTTAAAATAAAGGTAATAAAAATCATCAAAGGTTTTCCATCCAGTGGTCCAAAAAATAAATAACAGAAAGCAACA
ARSXIII-898	1332	13	897977	TTTTTTATGTTGGT	TCTTGTATTTGAACAAAAAATGAATTAACCCGAACACTACCAAATCAATAGCAGAAGAAAAGAAGAAAATGATAAAAATAAAGGTGAGAACCATTTTAAA
ARSXIV-29	1405	14	28653	TTTTTTATTTTTAGG	TGCTAAAGGCTATTTCAACTTAAATTTAAAATTTGAAAATTTCTTGTTCATTGAATGTATAAGAACTTTTATATTCTTCAGCGTTATTAAGCGCATCTT
ARSXIV-62	1406	14	61694	TTTTTAATGTTTTGT	AGAGGAAAAC TTTAAAAGTTGTCATTTTTTATTTCAGATCGCAATCCATGGTTTGACACATTCTATCTTAAAAAACA AAATCTATTTATTTTGGTTTCGGCT
ARSXIV-90	1407	14	89754	ATTTTAAAGTTTTGT	TTGTTTTTTTTATTGTTTTGCTTCGTAGTTTCAATTTTAAACATTAATGTGTGCAAAAACTATAAGACAATGGTATACGCAAGAAAACTATAAGTAGCA
ARSXIV-170	1411	14	169747	AATTTAACGTTTTGT	TTCTTCCGTCATCATATCCAGTGGGAAAGGTGATTTCTAGAAAATAATGTTAACCTTCAAGGTTATGCTTTGCGATATTTGACACTTTCCAAAGAAACA
ARSXIV-196	1412	14	196224	TTTTTAACTTTTAGC	CGCGGTCAGTGACATTTTGGCTTTCCACCATTCCACGTCTGAAAAAATAAATAAAGAGATAAAAATATGAATTGAATATATATCAAAAATGTCTGC
ARSXIV-250	1413	14	250464	ATTTTACGGTTTTT	TGAAAAAGAACCCGTTATGAAATTAAGAAAAACAGTAATTTCAAAAATGTGAAGAAATTAGGAAA CAAAATATCTTAAAAAGATTGAACGAACACTCTGTTA
ARSXIV-280	1414	14	280062	TTATTTATGTTTTTC	TCTCAGAAGCCATTTTTTTTTGGTTTTATGGTAAAGGCACCCTTTAAAAATAACTAAATGTTTTCTTTGAAAAATACCATACTTACA ACTAATTAATTA
ARSXIV-322	1415	14	322000	TTGTTTACGTTTAGG	CGAAAATACTCACCTCTTTACTATTAAAAATAATAGAAATTTATCAGAAAAAAGTCAGCAACATCAAAAAATAACAGATGGATGGCTCTAGGATAAAGGATTC
ARSXIV-412	1417	14	412438	TTTTTTATATTTCTG	CCCCAAAAACGTAGTTTCAAAGAAAAAGAACTATCCAAAAATAGAAAGCAAGTTATGTTTAAAGGAATTA AAAAATGTACCTATAAAGCACGTTTTTCTGATA
ARSXIV-450	1419	14	449533	ATATTTACATTTAGC	CCTTCTATAACCGTTTTTTTTAATTTCCCGATCTGATGAAAAGGATGCAACATCACTCTAAAAACGTTGAAAAATGGCTCCAATTCATAAGGTC ACTTTTAGTG
ARSXIV-499	1420	14	499038	TTCTTTATGTTTAGC	TCTTTTTTCATCACTTCTAATTCGCAAAATAGAAAGGGGAAAGGAGGACAGCAATTATGTAAAAATTAATTAGTATGTGAGTAACAAAAAGAAGAGATAACAG
ARSXIV-546	1421	14	546145	ATTTTACGTTTTGG	CACGTGAATCTTCAGTAATTGATTGCACGCTTGATAAACGAAAAAACAATAAACAAATAAGGTAAGACTGCATTGTAAATCCTAGGAATGAGAAAGAACA
ARSXIV-561	1422	14	561326	TTGTTACATTTAGT	TTTTGAAAAGAAGTAATCAAAAAAATAAAAAACAATAAACACATATGCAAATATGTTCTATCAAAGAGGTATATGAACTGTTTGAATGTAAATCAA
ARSXIV-610	1424	14	609532	TTTTTTATGTTTATT	TTCTATTACTGATTTTCAAAAAGAAAGGTA AAAAATAACTTTCAGCGGCTATACAACCATATTTAAGTAAATGCACTCAGAGAAAGTATACAAGTAA
ARSXIV-636	1426	14	635830	TTTTTTAATTTTAGT	TAAGTTTTCTTCTAATTTTGAATATAAAAAAGTCATCTTATAACTAGTACATTTTATATGAAGGAGTTTCTATAGGTTTTAAAGGTGTGCAAAAAA
ARSXIV-692	1427	14	691677	TAATTAACATTTGT	TTCAATCTCTCACTTCGCTTAAGACCAAATAATCTCTTGAAGAAAAGAAAAC TTTAAAAGCATGCTTTTTCTTTAGCGGAAGCCATAGGTCCAAAAGGG
ARSXV-36	1506.5	15	35713	ATATTTATATTTAGA	GGCCTATATTCGCATCGAACTTTTCAAAATCCGCGGAAAATTA TAGAATTCATCATATATAATGAAGGAACTGTGTTCTGAAAAGAACA AAAAAGGA
ARSXV-73	1507	15	72688	TTTTTTACTTTTAGT	TTATTTTTTTAGACTTTAATGTGCTTCTCCCTTTTTTAAAGAGTAAATACATATTTAAAAAAGTACTATGGCTATTGCTAAAACGTGATAAAAATCAGAGC
ARSXV-85	1508	15	85365	ATATTTATGTTTATG	TTCCATCATGTAGAAAAGTTTCA TTTAAAAATTAATAGCCCGTCAAAAATACAAGTAAAAAATAAAAAATTA AAAAGCTCTCTATTTCTTATAAACTAAC
ARSXV-114	1509	15	113894	TTGTTTATATTTTTG	TACCACAAAACATCATTTAGAAAGCTGCAAAATGAAGTGAATCAGAAAAATTTAAAAATGAAACTAAAATACTAAATATTATTGTTCTTTTTCTAACAGTTGAAGT
ARSXV-167	1510	15	167002	TTATTTATGTTTTCG	TTATATTTTTCAACATTTCCGGAAAAATAAAAAAGCGACTTTTTTGAGGATATTATCCTATCATCTGTTGAGAAAACCTAAGACAGTTAGTTTTCTATGATAATA
ARSXV-278	1511	15	277732	TTGTTTATCTTTTGT	TATTTAAAGCTCTACTTTTTGAAATCCAAATCGTGTTTCCCTTATGCTAAGGTGAAAAAATAATAATAAATAAAAAATGGCCAACAATAAACAATAGCCTCTC
ARSXV-337	1513	15	337483	CTTTTTACTTTTGT	CACCATATTA AATCTTTAAACAAATCTAACTATGAAAAAATCCTTTAAACATATGTTAATATGTGGAAAAATAAATACTAAAAATAAAAAATCTAGA ACTGAA
ARSXV-437	1513.5	15	436792	ATATTTATTTTTATT	CACTTCTGAGAAAATACAAGTTGCATGCTTCAAAACTTTTACTTTTCAACAAAATATTAATCAAAAAAATAAATGAAAAAAGAAGACCATATTGAAGAAC
ARSXV-490	1514	15	490061	TTGTTTTTCTTTTCT	TCTTATAAATTTGTAAATTTTTTAACTGCATTAGATCATTATATTATCTTTCAAACGCCAGTCGTTTTTATTAGACCTTTATATACGTTTCAAAGTGGTT
ARSXV-567	1516	15	566597	AATTTTACTTTTGA	TGCGGAATTGACTTTTCTTGAATAATACATAACTTTTCTTAAAAGAATCAAAGACAGATAAAAATTTAAGAGATATTA AATATTAGTGAGAAGCCGAGAA
ARSXV-657	1519	15	656702	TATTTAATGATTAGT	AAGACAAAATGACATTTAAGCATCTATAAAAATAAGAAAAATAAAAAATGAAGGGAAAAAGCTAAACACTA ACTTCTTGACCAAACAACAAGGAAAAG
ARSXV-730	1521	15	729795	ATTTTATATTTTTGG	CCGTTTTATGGATAGAAAACAGTCAAACGTTTCGATGGATCTTATAAAAAGTAATGATGTAAAGCAAGGTACAAAATGAAAGAAGTACGGTTTACTGTT
ARSXV-767	1523	15	766690	TATTTTACGTTTTTT	CATAATCATATACTTTCTGCCGAAATTTTTTGCCTTCATTATGCACACTAATGTTATTAATCAGATAAAAATA CAGAAATTTAAAATAAATACTGAGAAT
ARSXV-783	1524	15	783387	ATTTTAACTTTTGG	TTTTGAAGCTCGTAATTTCAACAAAAAGAATTA AATAATCTTCAAGTCCGATAACAAGATGTAGAAAAACATCCAATGAAGTTACAAGTCAAACCATT
ARSXV-874	1526	15	874367	ATTTTAATATTTGTT	AGGATTCGCTTTTATTTCA CAATCAAAGGAAAACATAAAAAAAGTGTGATGCTCTACGTGAATAAAGAATTAGTGAAATAATAAAGGCAATCAGAA
ARSXV-908	1528	15	908307	TTGTTTATGTTTAGG	TTAACGATAGACATATTTATTTTTTTTTCTAGGAAATAAAAAATGAAGAACGGGAAAGAAAAGGAAAAATGAAAATGAAGAATATGAAGAGTAAACCTACTTA
ARSXV-982	1529	15	981505	TTATTTATATTTTTC	TTCAGTGAAGCGATTTTTTTTTTTTACACAGACCAAGACGGAAAAAAGTAGCTAAGGAAAGAAAACAAAATCATGAAAAAATGTGAAGTATCATGCACATC
ARSXV-1054	1529.5	15	1053692	TTGTTTAAATTTTGT	TCGGTCTCGGCTATATTTGGAAAGAAAAATAGCCAGTACATACTTTCTACCCTTTTCGCTCAATTTATCAATAAAAAACATTTAATCGAAAGTCATTCAA ACT
ARSXVI-43	1604	16	43150	TTGTTTATATTTTTG	AATTTAAACTGTTTTATAGAAATGTATGTAATATATAAAATTTTATTTTCTTTGAAAAAATGGGTATTTTTCTTTCTATTTTTTCAAGAAAATCTTCTCTGT

Systematic name	proARS	Chr	Position / bp	proACS	100 nucleotides after 15bp proACS
ARSXVI-73	1605	16	73105	TTTTTTTTGTTTTT	CAGTTCCTTGTGTTACCTATTTTTCTTTGCGCAATTGCAAATATTATTAACCTAATTTGCGATTATTTGAGACTAAACAATAAAGACCTGGCAGTGGAGGC
ARSXVI-117	1607	16	116593	ATTTTTATGTTTTGT	TCCATACTAAATGCAGTTTATAAAAATTTTTCAAATGAGTCAAGCTATGTATAATCAGTGCTACAAAAATGATAAGATGCAATTGCAAGAAAAAATCCCTT
ARSXVI-290	1614	16	289531	TAATTAATGTTTACT	TCAGACAATAAAAACATTAAAAACAAATTTTTAGAAAAACAAAAGCTGAAAGTAAAGACTAAATATTACACAATTTATTCATACATTTCCGCCCAAACTCA
ARSXVI-385	1618	16	384592	AAATTTATGTTTATG	TGGCGTAAAAATATCTTTCTTCTGAAAAACACATGCAGCAGTTACTCCCATCATAAAAAGGAATTAATAAATGAATAGTATAAAACAATTATTTACTTAAATAT
ARSXVI-418	1619	16	418178	TTATTTACAATTAGT	TTTCTCAGAACGATATTCAATACAGTTCTCCGGATTTTTGCTTACTATATTGGCCCCAAAAAATGAAATAAAAAAAGAAAAACAAAATAATATACTTGGG
ARSXVI-457	1620.5	16	456759	TTTATTATTTTTTGT	TCTTATTTTCCGGCTTTCGGAAGATGTAGAGTGGTCCGGTATATTAATGCTTGAAGTAAAGACTAGGAAAACTATGGATGGGGCGGCTCTTCATTCATGACAGTAT
ARSXVI-512	1621	16	511704	ATTTTTATGTTTTTT	GAGATATTTGAGCTTCTATTTTTTTAAAATGCCTGAATTTCCATCTTCAAAAAAACATAAAAAAGGTACTTTACCACCAAATAAATGATAACCACAA
ARSXVI-564	1622	16	563877	TCTTTTATATTTAGT	CCGCTTTACACCGAAAAGGTCATTTTTAAAAGGCAAGAGAACTAGGAAAAGTAAAACGTGCCCTTCAAAGCGAAGAGATGAATATATTTAGAAGTTA
ARSXVI-565	1622.5	16	565115	TTTTTAATTTTTAGT	TAGTAGATTTTCGTTTCGAGGCCCTAAAAATGTACCGAAAAGTCATAATAAACGGGCGGAGTCACATCGTAAGAGTAACATATAACAATATGCGAGCAGACT
ARSXVI-634	1623	16	633921	TTTTTATAGTTTAGT	TGGTTTTGTTTAAATTTCTAGAATCCTGTTCCGGCGCTTTTGTAAAAGTAAAAAATGAAAATTCAAACGAAATGAACCTAATCACGTTAGAATTTAAATCT
ARSXVI-684	1624	16	684405	TTTTTTACTTTTTGT	TTCTTTATTAATTTTTTAGTTTTTTTCATATTCTATTTTATTATAAGTAGTAATATGAAGAAATTTCCAAGCAAAGCTCAATAAAATTTATTAGCTAAA
ARSXVI-696	1625	16	695618	TTTTTTAATTTTCT	GACTACTGTTTCAGCCATCAAGGTATGTCTAAATTAATAATATTCAGCATTTTCAACGTGCGCTTACCATCTGCTAATACACAGCTCCTCTGAAAGTTTCT
ARSXVI-749	1626	16	749117	ATTTTTAAGTTTAGT	AATCTTTTTCCGGATGAGATGTTTTGAAGAGTTTTATGCTATTAAGTAGTAATATGATTTATATATTCAAATAAAATGTAAATTTATGAAAGAAAAATAC
ARSXVI-777	1626.5	16	777094	TTATTTATATTTTGG	CATTAATCTTTCATCATTTTTTTCCCTCTAAGAAGCTTCTTTTCTTTTTATAAGGATAACAAAACAAAAGGAATATTGGGTGAGATGAATGGACGCGAAT
ARSXVI-819	1627	16	819339	ATTTTTATATTTATT	CATGATATATTAATATTAATATATATCGATGGTGAAGGACACCACACCTGTATTTCTTTGATTGAAAACAATTTTGTAAACATTGGCTGCAAAAAGTTTTTGA
ARSXVI-843	1628	16	842851	TTATTTAGATTTAGT	TGCGATCAAGTGTAGAAAACACATTAAAAACTATGTTGAAAAACATAAAAAAGTATTTGCGAGATCATTAAACATTAGAATTAACCTATTTATCATTAACCTATT
ARSXVI-881	1630	16	880906	TATTTTATGTTTAGG	TTAATAACTTTGGTAATGCTAAATTTATCTTAATTTGACGTACACAAATCTTCTACTGTTATATATGTTTTCGAATTATCTTTTAAATTTGTTGCTAAAAAA
ARSXVI-933	1631	16	933164	TTATTTACGTTTAGC	TTTGCTGTGGTCTTTTATACTTAATCATATAAGATACATGCATCTAGATTGCCACTATATAGCAGCACATGTTACAGTTAACTATCGATTGTCCAAAAT

Suppl Table 2. Nucleosome positioning datasets

	Author(s)	Journal	Title
Compiled	Jiang & Pugh	Genome Biology 10:R109, 2009	A compiled and systematic reference map of nucleosome positions across the <i>S. cerevisiae</i> genome
	1 Mavrich et al. (Pugh)	Genome Research 18:1073-1083, 2008	A barrier nucleosome model for statistical positioning of nucleosomes throughout the yeast genome
	2 Albert et al. (Pugh)	Nature 446:572-576, 2007	Translational and rotational settings of H2A.Z nucleosomes across the <i>Saccharomyces cerevisiae</i> genome
	3 Field et al. (Segal)	PLoS Comp Biology 4(11):e1000216, 2008	Distinct modes of regulation by chromatin encoded through nucleosome positioning signals
	4 Shivaswamy et al. (Iyer)	PLoS Biology 6(3): e65, 2008	Dynamic remodeling of individual nucleosomes across a eukaryotic genome in response to transcriptional perturbation
	5 Whitehouse et al. (Tsukiyama)	Nature 450:1031-1036, 2007	Chromatin remodeling at promoters suppresses antisense transcription
	6 Lee et al. (Nislow)	Nature Genetics 39(10):1235-1244, 2007	A high-resolution atlas of nucleosome occupancy in yeast
Individual	Eaton et al. (MacAlpine)	Genes & Dev 24:748-753, 2010	Conserved nucleosome positioning defines replication origins
Individual	Yuan et al. (Rando)	Science 309:626-630, 2005	Genome-scale identification of nucleosome positions in <i>S. cerevisiae</i>
Individual	Albert et al. (Pugh)	Nature 446:572-576, 2007	Translational and rotational settings of H2A.Z nucleosomes across the <i>Saccharomyces cerevisiae</i> genome
Individual	Lee et al. (Nislow)	Nature Genetics 39(10):1235-1244, 2007	A high-resolution atlas of nucleosome occupancy in yeast