

Supplementary table I: Combined analysis of the *S. cerevisiae* ARS

Chr No.	ARS	G	TREP	OE	SIDD	FE	FS	RE	Curvature	G+C
1	102	89.06	0	0	0	tel	0	1	14	14
	103	75.14	27.5	1	3.33	0	3	0	10	10
	104	81.71	28.3	1	0.024	TY1,LTR	0	0	8	8
	105	76.47	34.1	1	0	0	2	1	13	14
	106	98.03	33.3	1	6.11	0	1	0	9	10
	107	77.4	29.9	1	-0.028	LTR	2	1	12	12
	108	79.56	18.2	1	0	0	5	1	12	12
	109/101	87.1	0	1	-0.13	RT, LTR	5	0		
	110	77.14	14.6	1	0	RT,LTR	0	0	10	11
	111	81.36	0	1	0	LTR	0	1	16	16
	112	79.36	29.9	1	0	0	4	1	14	16
	telo X	0	29.9	1	0	0	3			
	2	230	81.87	0	0	4.49	LTR	2	1	12
202		92.87	0	1	0	0	1	1	12	12
207		88.85	0	1	0	0	1	0	10	10
231		83.82	17.9	0	1.72	LTR	2	0	10	10

Continued...

	208	78.33	19.1	1	0	RT,LTR	2	0	9	9
	209	77.68	0	1	0	LTR	6	1	12	13
	211	88.17	0	1	0	LTR	0	0	11	12
	212	76.9	0	1	0	0	4			
	213	94.49	0	1	0	0	6			
	214	87.53	25.4	1	5.91	0	1	0	7	8
	215	86.58	25.7	1	5.65	0	0	1	14	16
	216	87.31	30.1	1	-0.031	0	1	0	10	11
	220	77.51	26.3	1	-0.66	0	2	0	10	12
	221	80.49	30.1	1	0.27	LTR	2			
	222	77.71	29.4	1	0.08	0	2	1	12	12
	224	85.98	30.3	1	8.3	0	2	0	10	10
	225	76.91	33.1	1	1.19	0	1	1	14	14
	228	77.01	37	1	0.37	0	1	0	9	9
3	300	78.61	0		0.94	LTR	0	0	8	8
	301	79.75	0		3.14	LTR	1	0	11	12
	302	0	0		4.47	0	2	1	14	14
	303	0	0		7.451	0	3	1	12	12
	320	77.64	0		0	0	5	1	14	14
	304	0	0		7.6	0	3	0	10	10

Continued...

	305	81.16	12.6		2	0	3	0	11	11
	306	83.2	10.8		-0.33	LTR	2	1	14	14
	307	73.47	19.8		3.33	LTR	3	0	10	10
	308	70.19	19.8		-0.4	LTR	3	0	10	10
	309	72.31	22.5		1.6	LTR	2	0	10	10
	310	78.43	24.9		0	LTR	4	1	12	14
	313	79.48	16.3		-0.28	0	2	0	10	12
	314	76.22	16.9		1.83	0	2	1	14	14
	314.5		16.9		0	0	0			
	315	88.34	14.8		1.19	0	1	1	13	14
	316	86.13	33.4		2.57	0	2	1	12	12
	317	62.83	31.1		-0.32	LTR	2	0	10	12
	318	67.72	31.1		4.83	LTR	2	1	12	14
	319	72.02	0		0	TEL	0	1	12	14
4	400	80.13	0		0	TEL	0	0	10	12
	403	0	0		0.65	0	0	0	9	9
	404	69.79	36.5		2.19	0	2	1	14	14
	405	70.44	34.2		-0.07	0	2	1	14	14
	405.5	0	0		0	0	0			
	406	71.36	29.4		-0.57	0	2	1	12	12

Continued...

	409	76.26	36		0.6	0	1	0	11	11
	409.5	0	33.2		-0.032	0	0			
	410	87.67	28.6		0.36	0	1	1	12	12
	412	82.66	0		2.5	0	0			
	413	62.79	20.5		-0.14	0	0	0	9	10
	413.5	0	0		0	0	0			
	414	83.01	26.3		-0.49	0	1	0	10	10
	415	80.83	19.9		-0.08	LTR	4			
	416	80.58	23.3		0.32	0	0			
	417	96.01	22		0.33	0	1	1	12	12
	417.5	0	24.1		6.19	0	0			
	450	89.61	0		0	LTR	3	1	12	12
	418	84.71	18		2.96	LTR	1	0	11	14
	419	83.75	0		1.32	0	2	1	14	12
	420	81.74	32.8		0.77	0	0			
	421	75.59	0		0.14	LTR	1	0	10	10
	422	82.28	32.8		0.93	0	2	0	10	10
	422.5	0	32.3		-0.67	0	0			
	451	0	0		0	0	1	0	9	9
	423	84	32.3		-0.77	0	2	0	11	11

Continued...

	425	92.94	38.8		7.04	LTR	1	0	9	9
	427	80.14	0		0	LTR	0			
	428	0	12		6.03	0	2	1	12	12
	429	81.61	12		0.01	LTR	2	0	10	10
	430	87.26	24.3		0.83	LTR	2	0	9	8
	430.5	0	0		0	0	0			
	431	77.74	32.6		-0.41	LTR	2	1	14	14
	431.5	0	35.9		-0.21	LTR	0			
	452	72.14	0		0	LTR	2	1	14	14
	432	86.34	12.6		0.02	0	1	0	10	10
	432.5	0	12.6		3.5	0	0			
	453	82.9	0		0	0	1	0	9	10
	433	88.65	36.7		1.88	0	2	0	11	11
	434	85.18	36.9		3.6	0	1	1	12	12
	435	73.92	32.9		-0.36	0	1	0	11	11
	439	75.42	0		0	0	0			
	440	85.96	30		-0.54	0	1	1	14	16
	441		29.4		0	0	0			
	443	76.54	0		0	0	2	0	11	10
	446	87.91	35.9		3.37	0	2	0	8	8

Continued...

5	502	51.71	0		8.7	0	0	0	4	4.5
	503	78.27	0		0	0	2	0	9	9
	504	82.76	0		0	0	4	1	16	16
	507	83.64	19.7		1.69	LTR	2	0	11	11
	508	81.2	14.3		1.98	LTR	1	0	10	10
	510	87.06	18.9		84.5	LTR	1	0	8	9
	511	80.46	18.7		2.37	0	1	1	12	12
	511.5	0	0		7.59	0	0			
	512	82	29.5		1.26	0	1	1	14	14
	513	78.33	0		0	LTR	3	0	10	10
	513.5	0	0		-0.31	LTR	0			
	514	91.04	22.6		6.85	LTR	1	1	12	12
	515	81.53	0		0	LTR	1	0	9	9
	516	82.47	24.3		1.76	LTR	1			
	517	89.58	25.3		5.01	0	1	1	12	12
	518	97.01	22.2		8.03	LTR	0	0	10	12
	519	90.7	22.2		6	LTR	1	1	12	14
	520	77.25	29.1		0	RT,LTR	4	1	16	16
	521	71.67	0		-0.26	LTR	2	0	9	10
	522	75.54	32.5		-0.41	LTR	1	0	10	12

Continued...

	523	79.23	34.4		0	LTR	2	0	10	12
6	600	82.31	0		0.32	0	0	0	11	11
	601	82.31	42.4		1.87	0	2	0	9	9
	602	83.15	42.4		0.4	0	1	1	12	14
	603	76.46	36.2		2.82	0	1	1	12	12
	603.1	0	0		-0.11	0	1			
	603.5	0	21.5		0.94	0	0	0	10	11
	604	91.84	21.5		8.42	0	0	1	12	12
	605	44.68	25.4		2.81	RT,LTR	0	0	5	5.5
	606	81.76	18.6		-0.39	LTR	1	1	18	18
	607	43.05	12.8		6.2	LTR	0	0	7	7
	608	67.73	0		-0.51	0	3	0	8	8
	608.5	0	0		-0.29	0	0			
	609	94.45	31.8		3.56	0	0	1	14	14
	610	78.53	0		0.31	TEL	3	0	10	12
7	702	80.82	32.6		7.28	0	2	0	10	11
	704	84.87	31.2		0.24	LTR	1	1	14	16
	706	82.96	31.2		-0.44	LTR	1	0	10	9
	707	75.84	31.4		-0.32	0	1	0	8	8

Continued...

	710	83.39	31.9		-0.03	LTR	1	1	16	16
	701/711	50.07	39.2		7.8	0	0			
	714	77.27	29.1		0.032	0	1	0	8	9
	716	84.69	33.9		2.58	0	1	0	8	8
	717	77.89	30.5		-0.51	LTR	1	0	8	9
	718	89.03	30.8		0.66	LTR	1	1	12	12
	719	88.03	24.7		4.57	0	1	0	9	10
	720	87.63	19.9		-0.32	0	1	0	6	6
	721	81.39	29.6		1.28	RT,LTR	2	0	8	8
	722	72.95	29.2		0.47	RT,LTR	0	0	10	10
	724	84.22	0		0	0	0			
	727	79.25	25.9		0.07	LTR	1	1	12	12
	728	76.23	30.6		-0.56	LTR	1	0	9	10
	729	92.95	24.9		5.59	RT,LTR	0	0	10	10
	731	83.66	22.5		3.34	0	1	0	9	9
	731.5/737	80.38	21.8		-0.55	0	1			
	735	81.17	0		0	0	0			
	733	0	34		-0.02	0	3	1	14	14
	734	80.67	0		0	0	0	1	12	11
	736	88.72	28.8		0	TEL	0			

Continued...

8	802	80.36	0		2.41	LTR	1	1	12	12
	801	78.55	0		0	0	0			
	805	0	26.4		1.83	RT,LTR	1	1	14	14
	806	86.02	0		0	LTR	0			
	807	83.81	23.4		5.24	LTR	2	0	9	10
	803	76.48	0		0	0	0			
	808	94.69	0		0	0	2	0	11	11
	809	78.41	32		4.11	0	1	0	7	7
	810	78.75	44.9		0.19	0	0			
	813	81.26	38.4		0.36	0	2	1	12	14
	815	74.34	25.8		-0.51	0	0			
	818	86.56	32.8		8.89	LTR	1	0	10	10
	820	79.75	25.4		-0.06	LTR	1	0	11	11
	822	84.13	34.9		4.07	LTR	1	0	8	8
	823	0	0		-0.37	0	0			
	824	73.85	0		1.86	TEL	0	1	12	14
9	907	0	29		0.14	0	2			
	902	77.02	0		0	0	0			
	903	0	0		0	0	2			
	904	73.16	0		0	0	3			

Continued...

	905	0	0		0	0	6			
	909	78.1	26.9		-0.02	0	1	0	10	10
	910	83.95	0		0	LTR	6			
	912	78.21	36.1		-0.49	0	2	1	14	14
	911.5	0	0		-0.39	0	1			
	901/913	0	24.7		-0.38	RT,LTR	1			
	913.5	0	0		1.53	LTR	1			
	923	93.77	0		0	0	0	0	10	10
	911	84.12	0		0	0	0	1	12	12
	914	93.53	0		0	0	2	0	10	10
	913	79.34	0		0	0	0	0	8	9
	915	88.55	0		0	0	7			
	916	0	36.9		-0.01	0	3			
	918	74.44	0		0	0	5			
	919	80.81	20.8		2.06	0	1	0	9	9
	920	73.5	20.6		4.21	0	1	1	14	14
	921	73.69	0		0	0	5			
	922	81.91	20.4		-0.21	LTR	1	0	10	9
	923	93.77	0		0	0	0			
10	1001	81.03	0		0.93	TEL	0	1	12	14

Continued...

	1002	80.37	0		9.09	0	1	1	14	14
	1003	73.16	0		-0.03	0	3	0	11	12
	1004	79.98	38.7		0.98	0	3	0	10	10
	1005	79.86	27		-0.32	LTR	2	0	11	12
	1006	0	24.8		-0.43	0	1	0	10	11
	1007	78	32.8		-0.34	0	3	0	9	9
	1007.5	0	26.5		3.45	0	2			
	1008	77.52	24.8		0	RT,LTR	2	0	11	11
	1009	78.71	25.6		0.89	0	3	0	10	11
	1009.5	0	0		5.39	0	3			
	1010	76.91	33.2		-0.12	0	3	1	14	14
	1011	85.19	31.4		4.98	0	1	1	12	12
	1012	84.97	15.6		8.58	LTR	1	0	7	7
	1013	72.41	15.6		-0.16	LTR	1	0	9	9
	1014	79.25	16.6		8.16	LTR	2	1	12	12
	1015	80.01	21.4		1.92	0	2	1	12	12
	1016	82.98	25.2		0	0	4	0	11	10
	1017	90	25.2		7.82	0	2	0	10	10
	1017.5	0	37.6		0	0	3			
	1018	84.47	17.3		4.38	LTR	1	0	10	10
	1018.5	0	19.1		3.58	0	3			

Continued...

	1019	93.37	19.1		0.07	0	4	1	12	12
	1020	92.37	24.4		7.42	0	1	1	14	14
	1021	87.69	16.1		3.78	0	2	1	14	14
	1022	81.84	31.7		3.29	0	1	1	12	12
	1023	80.77	31.7		0.64	0	0	0	10	10
	1024	86.5	35.9		8.18	0	1	1	12	12
	1025	78.63	35.9		7.44	0	0			
11	1104.5	0	26.2		-0.02	0	2			
	1103	73.73	23.4		4.43	LTR	2	0	9	9
	1104	80.1	0		0	LTR	6			
	1125	0	0		0	0	0	1	18	18
	1102	79.06	0		0	0	0			
	1106	73.06	26.3		0.47	LTR	1	1	14	14
	1126	77.86	0		0.27	0	2	1	11	12
	1127	88.87	27.4		2.21	LTR	1	1	14	14
	1109	73.06	25.5		-0.028	LTR	2	1	14	14
	1112	75.67	27.6		-0.36	0	2	1	12	14
	1113	73.28	23.89		-0.35	0	2	0	10	11
	1114	89.46	20.7		6.31	LTR	0	1	14	14
	1116	77.26	26.6		0.61	LTR	1	0	11	11

Continued...

	1118	83.05	29.6		0.77	0	1	0	8	9
	1120	82.41	30.1		0.94	0	1	1	12	12
	1123	85.79	32.6		2.2	LTR	1	0	9	9
	1125	79.31	0		0	0	0			
	1126	88.67	0		0	0	0			
12	1206	89.91	27.6		0.67	LTR	2	0	10	10
	1207	80.91	0		0	0	0			
	1208	80.5	22.9		-0.002	CEN	2	0	11	11
	1209	85.55	22.9		3.65	LTR	2	0	10	9
	1210	0	18.9		2.5	LTR	0			
	1211	89.73	18.9		6.77	LTR	1	1	14	14
	1211.5	0	20.9		0.12	0	4			
	1212	79.08	33.4		4.85	0	1	0	11	10
	1212.5	0	0		-0.65	0	1			
	1213	84.25	16.5		3.27	LTR	1	0	10	12
	1214	93.81	0		0	0	0			
	1215	85.29	21.4		3.89	0	0	0	10	9
	1216	83.98	24.8		8.26	LTR	0	0	9	9
	1216.5	0	0		7.47	0	0			
	1200-1	37.86	0		0	0	0	1	12	12

Continued...

	1200-2	88.33	0		0	0	0	1	12	12
	1217	82.96	21.8		-0.45	0	3	1	12	12
	1218	87.68	20		3.65	RT,LTR	1	0	11	11
	1219	87.68	0		0	0	0			
	1220	96.8	28.5		0.02	RT,LTR	1	1	12	12
	1223	83.1	18.5		3.38	0	1	0	10	10
	1226	87.064	30.2		7.35	LTR	2	0	8	8
	1238	87.13	35.5		-0.02	0	2	0	10	10
	1230	87.61	0		0	RT,LTR	0			
	1232	70.38	27.8		-0.22	0	1	1	12	12
	1233	78.91	27.8		-0.32	0	1	0	9	9
	1234	0	29.4		2.71	0	1	1	14	16
	1235	0	35.5		0.33	0	1			
13	1303	82.49	27.4		-0.46	0	1	1	14	16
	1304	81.77	27.4		-0.32	0	0			
	1305	78.24	22.9		-0.34	0	2	1	16	16
	1307	89.29	18.7		5.04	LTR	1	1	12	12
	1307.5	0	22.1		5.5	0	2			
	1308	83.34	12.3		8.87	RT,LTR	2	0	7	7
	1309	92.21	19.1		5.29	0	0	0	9	9

Continued...

	1310	89.61	14		6.14	LTR	1	1	14	14
	1312	83.34	23.2		3.06	RT,LTR	1	0	11	11
	1316	76.82	27.2		0.012	LTR	1	0	9	9
	1317	89.09	0		0	LTR	0			
	1320	70.84	20.4		2.54	0	2	0	9	9
	1319	80.19	18.8		1.1	LTR	2			
	1323	81.97	25.6		-0.28	0	1	1	12	12
	1322	83.5	0		-0.02	0	2			
	1324	83.83	0		-0.18	0	2	0	10	10
	1321	36.48	0		0	0	0			
	1325	80.19	20.4		1.45	0	2	1	12	12
	1327	90.65	27.6		2.43	0	2	1	16	16
	1328	92.95	0		6.21	LTR	1	1	12	12
	1329	71.77	0		-0.026	LTR	2	0	9	10
	1330	83.65	17.9		-0.38	LTR	1	1	14	14
	1331	87.3	0		0	LTR	0			
	1332	86.18	22.8		1.28	0	2	0	8	9
	1331.5	80.39	0		-0.48	0	2			
14	1405	85.12	32		2.9	0	1	0	9	9
	1406	81.23	27.8		-0.17	0	2	1	12	12

Continued...

	1407	83.4	25.5		2.23	0	1	0	10	12
	1409	0	0		0	RT,LTR	0	0	5	5
	1410	99.42	0		0	0	0	0	9	9
	1411	89.66	30.4		8.57	0	1	0	7	7
	1412	0	29.6		0.16	0	2	0	10	11
	1413	78.29	29.1		1.68	0	1	0	10	12
	1414	73.6	24.7		-0.28	0	2	0	11	11
	1415	82.77	21		0.33	0	4	1	14	14
	1416	80.71	27.1		6.93	0	0	0	9	9
	1417	86.17	0		0	0	0	1	14	14
	1419	83.9	29.5		1.26	0	2	1	14	14
	1420	82.91	27.2		5.36	0	1		12	12
	1421	88.78	0		2.14	LTR	2	0	10	9
	1422	79.64	15.7		-0.48	LTR	2	0	9	9
	1423	77.73	20.7		-0.15	RT,LTR	5	0	8	8
	1424	72.42	20.7		0	0	2	0	11	11
	1425	84.97	0		0	0	0	0	10	10
	1426	74.85	24.7		-0.35	LTR	1	1	15	15
	1427	74.85	24.1		4.79	0	1	0	10	10
15	1506.5	0	24.5		0.12	0	0			

Continued...

	1531	0	0		0	0	4	1	12	13
	1501	77.54	0		0	0	0	0	9	9
	1507	0	0		-0.13	0	0	0	10	10
	1502	43.93	0		0	0	0	0	6.7	6.7
	1508	82.03	20.6		0.43	0	2	0	8	9
	1509	80.48	18.8		-0.09	RT,LTR	1	0	10	10
	1509.5	0	0		-0.04	0	4			
	1510	85.1	14.1		4.04	0	2	0	10	12
	1510.5	0	17.2		4.83	0	0			
	1511	81.65	12.4		-0.36	0	0	0	8	9
	1512	94.54	0		0	LTR	6	1	12	10
	1513	76.5	17.6		-0.07	LTR	1	1	12	12
	1513.5	77.54	19		-0.31	LTR	1			
	1514	0	19.1		-0.29	0	2			
	1516	0	22		-0.13	0	1			
	1517	0	22.14		-0.18	0	0			
	1518	88.26	0		0	RT,LTR	7	0	9	9
	1519	86.55	24.5		-0.18	LTR	2	1	12	12
	1521	0	0		-0.22	RT,LTR	1	0	11	11
	1523	72.88	25.9		-0.47	0	1	1	12	12

Continued...

	1524	91.2	26.9		-0.01	0	1	0	10	10
	1526	86.4	21.3		2.85	0	2	0	7	8
	1528	81.18	0		0	0	1	0	10	10
	1529.5	0	18.6		-0.61	0	0			
	1529	90.43	26.7		6.1	RT,LTR	2	1	13	13
16	1601	0	29.9		0	0	2			
	1602	43.93	29.9		0	RT,LTR	0			
	1600	80.43	0		0	0	0			
	1603	94.96	0		0	0	0			
	1604	74.456	29.2		-0.42	RT,LTR	3	1	13	14
	1605	88.04	22.1		2.6	RT,LTR	1	0	7	8
	1607	83.45	26.4		1.44	0	2	0	10	10
	1611	41.07	0		0	LTR	0			
	1614	78.81	20.6		-0.5	0	1	1	12	12
	1608	67.73	0		0	0	0			
	1618	84.9	20.8		0.81	0	1	0	11	11
	1618.5	0	16.5		0	0	8			
	1619	87.5	16.5		0.68	0	2	0	10	10
	1633/1620	0	24.2		2.15	0	0			
	1621	80.72	22.3		1.4	RT,LTR	1			

Continued...

	1622	88.34	21.5		2.96	LTR	2	0	9	10
	1622.5	0	21.5		-0.51	LTR	1			
	1623	87.54	19.3		1.12	0	2	0	9	9
	1624	70.55	22.7		-0.34	0	2	0	11	11
	1625	93.01	22.7		6.13	0	1	1	14	14
	1626	74.85	0		-0.32	0	2	1	12	12
	1626.5	0	15.9		0.56	0	0			
	1635	0	0		0	LTR	1	1	12	12
	1627	80.92	18.7		0.36	0	1	1	12	12
	1628	67.66	21.7		-0.37	RT,LTR	2	1	14	14
	1629	43.92	0		0	RT,LTR	0			
	1630	76.12	28.7		3.39	0	2	0	10	10
	1631	83.28	22.1		4.61	0	0	0	7	7
	1632	0	0		0	0	0			
	1633	19.46	0		0	0	0	1	14	14
	1620.5	0	0		0	0	2			

*Blank coloumns indicate that respective ARS failed to yield values for that parameter