

**S1 Table. Autonomously Replicating Sequences (ARS) on Tiling Array with Mcm Binding**

<b>ARS</b>	<b>Number of experiments Mcm loading observed</b>	<b>Other Microarray study identifying ARS*</b>
<i>ARS104</i>	5	a, c, d, e
<i>ARS105</i>	5	a-d
<i>I-72<sup>ψ</sup></i>	4	a, b
<i>ARS216</i>	5	a-d
<i>ARS217</i>	4	a, d
<i>ARS300</i>	4	c, d
<i>ARS301</i>	5	a, c, d
<i>ARS302</i>	3	a, c, d
<i>ARS320</i>	5	a, c, d
<i>ARS303</i>	5	a, c, d
<i>ARS304</i>	5	d
<i>ARS305</i>	5	a-e
<i>ARS306</i>	5	a, b, d, e
<i>ARS308</i>	5	b, d
<i>ARS309</i>	5	a-e
<i>ARS315</i>	5	a, b, d, e
<i>ARS316</i>	5	a-e
<i>ARS317</i>	4	a, c, e
<i>ARS318</i>	5	a, c, e
<i>ARS319</i>	4	d
<i>ARS412</i>	4	a, c, d
<i>ARS413</i>	5	a-e
<i>ARS414</i>	5	a-e
<i>ARS415</i>	4	a-e
<i>ARS416</i>	5	a-e
<i>IV-477<sup>ψ</sup></i>	1	a, d, e
<i>ARS433</i>	4	a-d
<i>ARS514</i>	5	c, d, e
<i>ARS522</i>	5	a-d
<i>ARS523</i>	5	a-d
<i>ARS603</i>	5	a-e
<i>ARS607</i>	5	a-e
<i>ARS608</i>	5	a, d
<i>ARS609</i>	5	a, c, d, e
<i>ARS610</i>	5	c, d
<i>VII-17<sup>ψ</sup></i>	5	a, b, d
<i>ARS702</i>	5	a-e
<i>ARS919</i>	5	a, c, d, e
<i>ARS920</i>	5	a-e
<i>ARS1012</i>	5	a-e
<i>ARS1013</i>	5	a-e
<i>ARS1116</i>	5	a-e

<i>ARS</i>	Number of experiments Mcm loading observed	Other Microarray study identifying <i>ARS</i> *
<i>ARS1117</i>	4	a-e
<i>ARS1207</i>	5	a-e
<i>ARS1208</i>	5	b
<i>ARS1209</i>	5	a-e
<i>ARS1210</i>	3	b, c, d
<i>ARS1211</i>	5	a-e
<i>ARS1211.5</i>	3	a, b, d
<i>ARS1213</i>	4	a-e
<i>ARS1407</i>	5	a-e
<i>ARS1412</i>	5	a-d
<i>XIV-180<sup>ψ</sup></i>	1	b
<i>ARS1517</i>	5	a-d
<i>ARS1518</i>	2	a, c, d
<i>ARS1519</i>	5	a-e
<i>ARS1520</i>	4	a, c-e
<i>ARS1619</i>	5	a-e
<i>ARS1621</i>	5	a-e
<i>ARS1624</i>	4	a-d
<i>ARS1625</i>	4	a-d
<i>ARS1633</i>	5	a, b, d, e
<i>XVI-428<sup>ψ</sup></i>	3	d
<i>XVI-553<sup>ψ</sup></i>	4	a, b, d
<i>ARS1634</i>	5	a, b, d

\* (a.) [1]; (b.) [2]; (c.) [3]; (d.) Xu et al. (2006)[4]; (e.) [5]. <sup>ψ</sup>No *ARS* name has been assigned, chromosomal location obtained from OriDB [6].

## References

1. Feng WY, Collingwood D, Boeck ME, Fox LA, Alvino GM, et al. (2006) Genomic mapping of single-stranded DNA in hydroxyurea-challenged yeasts identifies origins of replication. *Nature Cell Biology* 8: 148-U139.
2. Raghuraman MK, Winzeler EA, Collingwood D, Hunt S, Wodicka L, et al. (2001) Replication dynamics of the yeast genome. *Science* 294: 115-121.
3. Wyrick JJ, Aparicio JG, Chen T, Barnett JD, Jennings EG, et al. (2001) Genome-wide distribution of ORC and MCM proteins in *S-cerevisiae*: High-resolution mapping of replication origins. *Science* 294: 2357-2360.
4. Xu W, Aparicio JG, Aparicio OM, Tavaré S (2006) Genome-wide mapping of ORC and Mcm2p binding sites on tiling arrays and identification of essential *ARS* consensus sequences in *S-cerevisiae*. *Bmc Genomics* 7.
5. Yabuki N, Terashima H, Kitada K (2002) Mapping of early firing origins on a replication profile of budding yeast. *Genes to Cells* 7: 781-789.
6. Siow CC, Nieduszynska SR, Mueller CA, Nieduszynski CA (2012) OriDB, the DNA replication origin database updated and extended. *Nucleic Acids Research* 40: D682-D686.