

Supplementary Table 1. Yeast strains used in this study

| Strain | Genotype | Source |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| L972 | <i>leu1 h⁻</i> | Lab Stock |
| KSP4-25 | <i>pmo25::ura4⁺/pmo25⁺ leu1/leu1 ura4/ura4</i> <i>ade6-M216/ade6-M210 h⁻/h⁺ pREP41-Pmo25</i> | This study |
| KSP1-1 | <i>pmo25⁺:GFP:kan^r h⁻</i> | This study |
| VS2933 | <i>cdc7⁺:GFP:kan^r leu1 ura4 ade6 h⁻</i> | V. Simanis |
| MS192 | <i>sad1⁺:dsRED:LEU2 leu1 h⁻</i> | O. Niwa |
| DH797-3B | <i>pmo25⁺:GFP:kan^r sad1⁺:dsRED:LEU2 leu1 h⁻</i> | This study |
| DH820-2D | <i>pmo25⁺:GFP:kan^r cdc7⁺:GFP:kan^r ura4 ade6 h⁻</i> | This study |
| DH614-6A | <i>nak1⁺:HA:kan^r leu1 h⁻</i> | This study |
| DH841-1D | <i>pmo25⁺:GFP:kan^r nak1⁺:HA:kan^r leu1</i> | This study |
| YS78-1 | <i>mor2⁺:HA:kan^r h⁻</i> | Hirata <i>et al.</i> 2002 |
| KK6-1 | <i>orb6⁺:HA:kan^r h⁻</i> | This study |
| DH445-10D | <i>mor2⁺:HA:kan^r orb6⁺:HA:kan^r</i> | This study |
| DH107-4C | <i>mor2-786 leu1 h⁻</i> | Hirata <i>et al.</i> 2002 |
| DH630-1 | <i>pmo25-35:GFP:kan^r h⁻</i> | This study |
| DH842-1D | <i>pmo25-35:ura4⁺ ura4 h⁻</i> | This study |
| KP1-6D | <i>nak1-125/mor4-125 leu1 h⁻</i> | This study |
| Cdc10 | <i>cdc10-129 h⁻</i> | P. Nurse |
| Cdc25 | <i>cdc25-22 h⁺</i> | P. Nurse |
| DH92-2B | <i>cdc10-129 mor2-786 h⁻</i> | This study |
| DH93-2A | <i>cdc25-22 mor2-786</i> | This study |
| DH907-1C | <i>cdc10-129 pmo25-35:ura4⁺ ura4 h⁻</i> | This study |
| DH908-3A | <i>cdc25-22 pmo25-35:ura4⁺ ura4 h⁻</i> | This study |
| DH947-2A | <i>cdc10-129 nak1-125 leu1 his2 h⁺</i> | This study |
| DH910-2B | <i>cdc25-22 nak1-125 leu1 his2 h⁺</i> | This study |

| | | |
|-----------|-----------------------------------------------------------------------------------------------------------------|----------------------------|
| Orb6 | <i>orb6-25 leu1 ade6 h⁻</i> | Verde <i>et al.</i> 1995 |
| DH433-12C | <i>orb6-25 leu1 h⁻</i> | This study |
| YS85 | <i>kan^r:nmt1:GFP:mor2⁺ h⁻</i> | Hirata <i>et al.</i> 2002 |
| DH839-2 | <i>kan^r:nmt1:GFP:mor2⁺ pmo25-23:ura4⁺ ura4</i> | This study |
| DH807-1A | <i>kan^r:nmt1:GFP:mor2⁺ nak1-125 leu1 h⁻</i> | This study |
| DH475-1C | <i>kan^r:nmt1:GFP:mor2⁺ orb6-23 leu1 h⁻</i> | This study |
| DH847-3C | <i>kan^r:nmt1:GFP:mor2⁺ cdc7-24 h⁻</i> | This study |
| DH789-1B | <i>pmo25⁺:GFP:kan^r mor2-786 h⁻</i> | This study |
| DH787-4A | <i>pmo25⁺:GFP:kan^r nak1-125 leu1 his2 h⁺</i> | This study |
| DH783-2C | <i>pmo25⁺:GFP:kan^r orb6-25 h⁻</i> | This study |
| DH852-7A | <i>nak1⁺:HA:kan^r pmo25-35:GFP:kan^r leu1 ura4 ade6</i> | This study |
| DH853-6D | <i>nak1⁺:HA:kan^r mor2-786 leu1 ade6</i> | This study |
| DH850-3D | <i>nak1⁺:HA:kan^r orb6-25 leu1</i> | This study |
| YDM975 | <i>mob2⁺:Myc:kan^r leu1 ura4 ade6 h⁻</i> | D. McCollum |
| FV521 | <i>mob2⁺:Myc:kan^r orb6⁺:HA:sup3-5 leu1 ura4 ade6-704</i> | Wiley <i>et al.</i> 2003 |
| DH957-8A | <i>mob2⁺:Myc:kan^r orb6⁺:HA:sup3-5 pmo25-35:ura4⁺ ura4</i> | This study |
| DH990-2C | <i>mob2⁺:Myc:kan^r orb6⁺:HA:sup3-5 nak1-125 leu1 ura4 ade6-704</i> | This study |
| DH989-2B | <i>mob2⁺:Myc:kan^r orb6⁺:HA:sup3-5 mor2-786 leu1 ade6-704</i> | This study |
| KL284 | <i>orb3⁺/nak1⁺:GFP:kan^r leu1 ura4 ade6 h⁻</i> | Leonhard and Nurse 2005 |
| DH866-4C | <i>nak1⁺:GFP:kan^r leu1 h⁻</i> | This study |
| DH867-2A | <i>nak1⁺:GFP:kan^r pmo25-35:ura4⁺ leu1 ura4 his2 h⁺</i> | This study |
| DH967-1A | <i>pmo25⁺:mRFP:kan^r nak1⁺:GFP:kan^r leu1 ura4 his2 h⁺</i> | This study |
| DH821-1A | <i>pmo25-35:ura4⁺ cdc7⁺:GFP:kan^r leu1 ura4 h⁻</i> | This study |
| IH1297 | <i>cdc16-116 ura4 h⁻</i> | I. Hagan |
| Cdc7 | <i>cdc7-24 h⁺</i> | P. Nurse |

| | | |
|-----------|------------------------------------------------------------------------------------|-------------|
| KP553 | <i>cdc7-i10 leu1 h⁻</i> | T. Kuno |
| IH1469 | <i>sid1-239 leu1 ura4 ade6 h⁺</i> | I. Hagan |
| IH1470 | <i>sid2-250 leu1 ura4 ade6 h⁺</i> | I. Hagan |
| DH888-6C | <i>pmo25⁺:GFP:kan^r cdc16-116 h⁻</i> | This study |
| DH798-6C | <i>pmo25⁺:GFP:kan^r cdc7-24 h⁻</i> | This study |
| DH1052-1A | <i>pmo25⁺:GFP:kan^r cdc7-i10 leu1</i> | This study |
| DH890-1B | <i>pmo25⁺:GFP:kan^r sid1-239</i> | This study |
| DH891-2B | <i>pmo25⁺:GFP:kan^r sid2-250 leu1</i> | This study |
| Cps1 | <i>cps1-12 h⁺</i> | J. Ishiguro |
| DH1085-4B | <i>pmo25⁺:GFP:kan^r cps1</i> | This study |
| DH851-1A | <i>nak1⁺:HA:kan^r cdc7-24 leu1</i> | This study |
| DH922-2C | <i>nak1⁺:HA:kan^r sid1-239 leu1 ade6</i> | This study |
| DH923-2D | <i>nak1⁺:HA:kan^r sid2-250 leu1</i> | This study |
| KS1158 | <i>mto1/mod20::kan^r leu1 ura4 ade6 h⁻</i> | K. Sawin |
| KGY3251 | <i>mto1/mbol::ura4⁺ leu1 ura4 ade6 h⁻</i> | K. Gould |
| DH936-4A | <i>mob2⁺:Myc:kan^r leu1</i> | This study |
| DH948-8D | <i>mob2⁺:Myc:kan^r cdc7-24 leu1 ura4 h⁻</i> | This study |
| DH949-3A | <i>mob2⁺:Myc:kan^r sid1-239 leu1 ura4 ade6</i> | This study |
| DH939-2B | <i>mob2⁺:Myc:kan^r sid2-250 leu1 ura4 ade6</i> | This study |
| DH1080-2C | <i>mob2⁺:Myc:kan^r Δmto1::ura4⁺ leu1 ura4 ade6</i> | This study |
