**Supplementary Table 2: Plasmids used in this study.**

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| --- | --- | --- | --- |
| **Name** | **Description** | **Occurrence in the study** | **Reference** |
| *pRS314 (MC219)* | CEN, *TRP1*, Amp | 4A,4B,4D, 4E, 6D, S3C, S4A, S4B, S4D | [1] |
| *pRS416-FZO1 (MC322)* | CEN, *FZO1 promoter FZO1*, URA3, Amp | FZO1 shuffling plasmid | [2] |
| *pRS314-FZO1 (MC250)* | CEN, *FZO1 promoter FZO1 TRP1*, Amp | 2E,2F,4A,4B, 4D,4E,5C, S3B, S4A, S4B, S4D | [3] |
| *pRS314-FZO1S201N (MC544)* | CEN, *FZO1 promoter FZO1S201N, TRP1*, Amp | 2E,2F,4B, S3B | [3] |
| *pRS316-MDM30 (MC331)* | CEN, *MDM30 promoter MDM30*, *URA3*, Amp | MDM30 shuffling plasmid | [4] |
| *pRS414-FZO1-13MYC (MC333)* | CEN, *FZO1 promoter FZO1-13MYC*, *TRP1*, Amp | 2A | [4] |
| *pRS414-FZO1-S201N-13MYC (MC389)* | CEN, *FZO1 promoter FZO1S201N*-*13MYC, TRP1*, Amp | 2A | this study |
| *pRS414-ADH GFP-link-Fzo1 (MC538)* | CEN, *ADH promoter GFP-link-FZO1, TRP1*, Amp | 2B | this study |
| *pRS414-ADH GFP-link-FZO1S201N (MC539)* | CEN, *ADH promoter GFP-link-FZO1S201N, TRP1*, Amp | 2B | this study |
| *pRS414-GFP-Link-FZO1 (MC261)* | CEN, *FZO1 promoter GFP-Link-FZO1*, *TRP1*, Amp | 2C, S2D | this study |
| *pRS414-GFP-Link-FZO1S201N (MC426)* | CEN, *FZO1 promoter GFP-Link-FZO1S201N, TRP1*, Amp | 2C, S2D | this study |
| *pRS416-CYC OLE1-9MYC (MC545)* | CEN, *CYC promoter OLE1-9MYC, URA3*, Amp | Ole1 shuffling plasmid | this study |
| *p416-ADH OLE1-9MYC (MC546)* | CEN, *ADH promoter OLE1-9MYC, URA3*, Amp | Ole1 shuffling plasmid | this study |
| *pRS414-MET25 OLE1-9MYC (MC536)* | CEN, *MET25 promoter Ole1-9MYC, TRP1*, Amp | S3D | this study |
| *pRS414-ADH OLE1-9MYC (MC 534)* | CEN, *ADH promoter OLE1-9MYC, TRP1*, Amp | S3D | this study |
| *pRS414-CYC OLE1-9MYC (MC535)* | CEN, *CYC promoter OLE1-9MYC, TRP1*, Amp | S3D | this study |
| *pRS414-TEF OLE1-9MYC (MC533)* | CEN, *TEF promoter OLE1-9MYC, TRP1*, Amp | S3D | this study |
| *pRS414-CYC OLE1 (MC540)* | CEN, *CYC promoter OLE1, TRP1,* Amp | 3A,3B,3C,3D, S2F,3E,3G, S5A,3F,3H,5B,5D,6A,  6B,6C,6D,7A,7B,7C, S3C, S3E, S4A, S5B, S5D, S5E, S5C, S6B | this study |
| *pRS414-TEF OLE1 (MC541)* | CEN, *TEF promoter OLE1, TRP1,* Amp | 3A,3B,3C,3D, S2F,3E,3G, S5A,3F,3H,5B,5D 6A,6B, 6C,6D,  7A,7B,7C, S3C, S3E, S4A, S5B,  S5D, S5E, S5C, S6B | this study |
| *pRS414-OLE1 OLE1 (MC543)* | CEN, *OLE1 promoter OLE1, TRP1,* Amp | 3A,3D, 3E,3G, S5A,3F,3H,5B,  7A,7B,5D,6A,6C,6D,7C, S3F, S3C, S3E, S4A, S3E, S5B, S5D, S5E, S5C, S6B | this study |
| *YIplac128 mito-GFP (MC363)* | *TEF promoter mito-GFP, LEU2/INT*, Amp | 2E,2F,3D, 3E,3G,5D,6A, S2C, S3F, S5B, S5C | * [5] |
| *YIplac128 mRFP-SKL (MC547)* | *FAA2 promoter mRFP-SKL, LEU2/INT*, Amp | Used for construction of *RFP-SKL* tagged strains | this study |
| *YIplac128 mito-BFP (MC460)* | *TEF promoter mito-BFP, LEU2/INT*, Amp | Used for construction of *mt-BFP* tagged strains | this study |
| *pYeL1-mtRFP (MC336)* | *CEN, GAL10 promoter-mtRFP, LEU2, Amp* | S6B | [4] |
| *pYeL1-mtGFP (MC337)* | CEN, GAL10 promoter-mtGFP, LEU2, Amp | S6B | [4] |

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