

**Supplemental Table 1:** Plasmids used in this study

Plasmid	Chrom	Name	Vector	Genes
A2495	I	I-1	Ycplac22	<i>MYO4</i>
A2496		I-2	Ycplac111	<i>FUN30, PMT2</i>
A2497	II	II-1	Ycplac22	<i>APE3, OM14, PET9, TEF2</i>
A2498		II-2	Ycplac111	<i>KAP104, SHE1, UBC4</i>
A2536		II-3	pRS313	<i>SCO2, AMN1, PBP2</i>
A2499	IV	IV-1	Ycplac22	<i>ARF1, SAC6</i>
A2500	V	V-1	Ycplac22	<i>GLN3</i>
A2501	VIII	VIII-1	Ycplac22	<i>MYO1, OPI1, STE12</i>
A2502		VIII-2	pRS313	<i>DMA1, SFB3</i>
A2503	IX	IX-1	Ycplac22	<i>PRK1</i>
A2504		IX-2	Ycplac111	<i>AXL2, TED1</i>
A2505	X	X-1	pRS313	<i>TPK1</i>
A2506		X-2	Ycplac22	<i>BFA1, HSP150, IRC8, KAR2</i>
A2507	XI	XI-1	Ycplac22	<i>SPC42, TPK3</i>
A2508		XI-2	pRS313	<i>SDS22</i>
A2509	XIV	XIV-1	Ycplac22	<i>MKS1, POR1, TOM70</i>
A2510		XIV-2	pRS313	<i>KSH1, PUB1, SSN8</i>
A2511	XV	XV-1	Ycplac22	<i>EFT1, RPS12, SLG1</i>
A2512	XVI	XVI-1	Ycplac22	<i>KES1, PEP4</i>
A2513		XVI-2	pRS313	<i>HAA1, TPK2</i>
A2514		XVI-3	Ycplac111	<i>TEF1, VPS4</i>
A2515	VI	pACT1	MoBY <sup>23</sup>	<i>ACT1</i>