

**Supplemental Table I. Primers used in this study**

Primer	Sequence
oRAX11	5' GGACGCAAGCTTCCAGAACGGTTTATCGCA 3'
oRAX12	5' GGACGCAAGCTTTTGTGTCAGCGGAGGACA 3'
oRAX13	5' GGCCGGATCCTTCATGATGAATGGGACGC 3'
oRAX14	5' GGCCGGATCCGTCGTGTATGATGTAATCC 3'
oRAX15	5' CTTGCGGCCGCACATGATGAATGGGACGCT 3'
oRAX16	5' TGTGCGGCCGCAAGGAAGAGCTCAGCAAAG 3'
oRAX111	5' GTAGTGGGTGCCACTGCCGCATTCACAGTTATTTTCAGCTGTGTT CCCGGCCGTCGTGTACGGATCCCCGGGTTAATTAA 3'
oRAX112	5'GTCACGCGCTATGGAAATATGCGGTGCACAGGTGTTTTTATAGGG GGGTGATGGATTACAGAATTCGAGCTCGTTTAAAC 3'
oRAX21	5'TCTTCCGCGGCCAATAATACATCTCATATG 3'
oRAX22	5'CCGACCGCGGCAGTATTGGTAACATTCCAA3'
oRAX23	5'CTCCGGATCCAGAGACGATGAACAAACATT 3'
oRAX24	5'CTGCGGATCCTTATGAAGTTTGTCTAATCG 3'
oRAX25	5'GTTACCTGGCAATGCTAGCTCTATTAGCTC 3'
oRAX26	5'CTGGCGGCCGCCGACAACTTCATAAGTTT 3'
oRAX27	5'TCCGCGGCCGCTAATCGGGGTTGTATTATA 3'
oRAX28	5'CCGACTCGAGTATTGGTAACATTCCAAGTG 3'
oBUD81	5'CCAGCTCGAGAGGCCAAACCGGATAGTCCT 3'
oBUD82	5'CCACGGATCCGCTAAGAAGGAAGCCGGCGA 3'
oBUD91	5'GGTCCTCGAGCACTATTCAACAGTGAATGG 3'

oBUD92 5'GTCCGGATCCTTGGGGATTCTTCTTTCTG 3'

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**Supplemental Table II. Budding patterns of wild-type and mutant strains**

Strain	Relevant genotype	Budding Pattern <sup>a</sup>		
		Axial <sup>b</sup>	Bipolar <sup>c</sup>	Random <sup>d</sup>
YEF473A	<b>a</b> wild type	94	4	2
HPY440	<b>a</b> <i>axl1</i>	23	70	7
HPY543	<b>a</b> <i>axl1 rax1</i> □	88	7	5
HPY615	<b>a</b> <i>axl1 GFP-RAX1</i>	25	70	5
HPY850	<b>a</b> <i>axl1 RAX1-Myc<sub>13</sub></i>	13	75	12
HPY639	<b>a</b> <i>axl1 rax2</i> □	83	9	8
HPY729	<b>a</b> <i>axl1 RAX2-GFP</i>	23	70	7
HPY730	<b>a</b> <i>axl1 RAX2-HA<sub>3</sub></i>	26	71	3
YEF473	<b>a</b> /□ wild type	2	78	20
HPY496	<b>a</b> /□ <i>rax1</i> □/ <i>rax1</i> □	18	38	44
HPY614	<b>a</b> /□ <i>GFP-RAX1/GFP-RAX1</i>	0	81	19
HPY814	<b>a</b> /□ <i>RAX2-GFP/RAX2-GFP</i>	0	80	20

<sup>a</sup> Budding patterns were determined by scoring cells with more than three scars. About 200 cells were counted for each strain, and the percentage of each pattern is shown.

<sup>b</sup> One or more chains of bud scars similar to those of the axial pattern were present.

<sup>c</sup> Bud scars were concentrated at one or both poles of the cell (as in the bipolar pattern).

<sup>d</sup> One or more bud scars were present at seemingly random sites.