

Table S1. Oligonucleotides used in this study.

Name	Sequence 5'-3'	Remarks
Anig_mat1	gacgccaaactcgccctcttataacc	within <i>A. nigrificans</i> mating type region
Anig_mat2	aggtatggcgagatataagcctgg	within <i>A. nigrificans</i> mating type region
Anig_mat3	gttggtctgagcgtggcaatcagg	within <i>A. nigrificans</i> mating type region
Anig_mat4	ggttgtaggtgggattaccaatgc	within <i>A. nigrificans</i> mating type region
Anig_mat5	ctgctgatgcccggtttcatcc	within <i>A. nigrificans</i> mating type region
Anig_mat6	ctaaggtccagcgtcctcagagg	within <i>A. nigrificans</i> mating type region
SMAC_01829_ko1	GTAACGCCAGGGTTTTCCAGTCACGACGg aattctcgtgaagttggaggagacgggacg	amplification of upstream region of <i>spt3</i> for cloning of deletion vector
SMAC_01829_ko2	cgaggggcaaaggaatagggttccgttgagg gcaaaagcgtgcacggccacaaagc	amplification of upstream region of <i>spt3</i> for cloning of deletion vector
SMAC_01829_ko3	gccccaaaaatgctccttcaatatcagttgc ccgtcggacgatatcgtcgatatcc	amplification of downstream region of <i>spt3</i> for cloning of deletion vector
SMAC_01829_ko4	GCGGATAACAATTTTCACACAGGAAACAGCg aattcgggtgggtctacgagcaagtgtctgc	amplification of downstream region of <i>spt3</i> for cloning of deletion vector
SMAC_04946_ko1	GTAACGCCAGGGTTTTCCAGTCACGACGg gatccGCATGGTACCTGCAAATGAGCTTGG	amplification of upstream region of <i>scm1</i> for cloning of deletion vector
SMAC_04946_ko2	cgaggggcaaaggaatagggttccgttgagg TTGAGAGCAAGCCCTTCATGGTGGC	amplification of upstream region of <i>scm1</i> for cloning of deletion vector
SMAC_04946_ko3	gccccaaaaatgctccttcaatatcagttgc tggcattgagagtgttctcggctgg	amplification of downstream region of <i>scm1</i> for cloning of deletion vector
SMAC_04946_ko4	GCGGATAACAATTTTCACACAGGAAACAGCg gatccccctacaaggtacgggtggaggtacc	amplification of downstream region of <i>scm1</i> for cloning of deletion vector
SMAC_06113_ko1	GTAACGCCAGGGTTTTCCAGTCACGACGg aattcGTGCATACAAGCATAAAAGAACGGG	amplification of upstream region of <i>aod5</i> for cloning of deletion vector
SMAC_06113_ko2	cgaggggcaaaggaatagggttccgttgagg CGTGCCTTAGCTCTATATATACAGA	amplification of upstream region of <i>aod5</i> for cloning of deletion vector
SMAC_06113_ko3	gccccaaaaatgctccttcaatatcagttgc tcgaaaacagaataatctgctcaga	amplification of downstream region of <i>aod5</i> for cloning of deletion vector
SMAC_06113_ko4	GCGGATAACAATTTTCACACAGGAAACAGCg aattcctaactagtagttgggtcgggtgacg	amplification of downstream region of <i>aod5</i> for cloning of deletion vector
dSMU_1	cgatggctgtgtagaagtactcgc	sequencing of deletion vector or verification of homologous integration
dSMU_5	GTGTTGACCTCCACTAGCTCCAGC	sequencing of deletion vector or verification of homologous integration
hph1_MN	CGATGGCTGTGTAGAAGTACTCGC	sequencing of deletion vector or verification of homologous integration
hph2_MN	ATCCGCCTGGACGACTAAACCAA	sequencing of deletion vector or verification of homologous integration
Sm-1829.3_fw	agcggctgataaaggacgg	verification of homologous integration of <i>spt3</i> deletion vector
Sm-1829.3_rv	gaactagccattgaagacctgg	verification of homologous integration of <i>spt3</i> deletion vector
Sm-1829.3_2fw	atggcgggacaaggacaagg	sequencing of <i>spt3</i> complementation vector
Sm-1829.3_2rv	acccggtgtagcaagatgg	sequencing of <i>spt3</i> complementation vector

Sm-4946.3_fw	cctccatatcgtcgtggagtg	verification of homologous integration of <i>scm1</i> deletion vector
Sm-4946.3_rv	ggttggagttttccagagtcgc	verification of homologous integration of <i>scm1</i> deletion vector
Sm-4946.3_2fw	atgaggtaatcggcaacgatcc	sequencing of <i>scm1</i> complementation vector
Sm-4946.3_2rv	cattgtgcatgccgaatctcc	sequencing of <i>scm1</i> complementation vector
Sm-6113.3_fw	attgagagggctgctgttagg	verification of homologous integration of <i>aod5</i> deletion vector
Sm-6113.3_rv	acccgccactattcacttacac	verification of homologous integration of <i>aod5</i> deletion vector
Sm-6113.3_2fw	agtatccggtcttctcgtcg	sequencing of <i>aod5</i> complementation vector
Sm-6113.3_2rv	ccagcttaccatctcgttcc	sequencing of <i>aod5</i> complementation vector
HR-1829.3-HindIII_fw	tcgagctttcccacttcatcgcagcttAAG CTTatggcggacaaggacaaggacaagcag	cloning of <i>spt3</i> complementation vector
HR-1829.3-HindIII_rv	gaacagctcctcgcccttgctcaccatAAG CTTaataatcaacaaatccgtctttggcgg	cloning of <i>spt3</i> complementation vector
HR-T1829.3_fw	ctcggcatggacgagctgtacaagtaagca gggatgtttggacggacggactg	cloning of <i>spt3</i> complementation vector
Sm-1829.3_3fw	aaccgctcttggatgtcg	sequencing of <i>spt3</i> complementation vector
Sm-1829.3_3rv	ttccaggacaagaaggtgc	sequencing of <i>spt3</i> complementation vector
HR_P06113_fw	CGCAGCTTGACTAACAGCTACAGATCTATG CCGGACGACGTTGGACCCGC	cloning of <i>aod5</i> complementation vector
HR_EGFP_06113_rv	GAACAGCTCCTCGCCCTTGCTCACCATCAG ACTCAGCACAGCCAGTTGGTTATGACTGCG GTA	cloning of <i>aod5</i> complementation vector
egfp-fw	GGTGAACCTCAAGATCCG	sequencing of complementation vectors
egfp-rv	ACTTGTGGCCGTTTACGTCG	sequencing of complementation vectors
1751	gccatattttcctgctctcc	sequencing of complementation vectors
1757	agctgacatcgacaccaacg	sequencing of complementation vectors
426-14	TTAAGTTGGGTAACGCCAGG	sequencing of complementation vectors
426-15	TTGTGTGGAATTGTGAGCGG	sequencing of complementation vectors