

pPICZα A MCS

5' end of AOX1 mRNA 5' AOX1 priming site

811 AACCTTTTTT TTTATCATCA TTATTAGCTT ACTTTTCATAA TTGCGACTGG TTCCAATTGA

871 CAAGCTTTTGG ATTTTAAACGA CTTTAAACGA CAACTTGAGA AGATCAAAAA ACAACTAATT

931 ATTCGAAACG **ATG** AGA TTT CCT TCA ATT TTT ACT GCT GTT TTA TTC GCA GCA
Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala

983 TCC TCC GCA TTA GCT GCT CCA GTC AAC ACT ACA ACA GAA GAT GAA ACG GCA
Ser Ser Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala

α-factor signal sequence

1034 CAA ATT CCG GCT GAA GCT GTC ATC GGT TAC TCA GAT TTA GAA GGG GAT TTC
Gln Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe

1085 GAT GTT GCT GTT TTG CCA TTT TCC AAC AGC ACA AAT AAC GGG TTA TTG TTT
Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu Phe

Xho I*

1136 ATA AAT ACT ACT ATT GCC AGC ATT GCT GCT AAA GAA GAA GGG GTA TCT CTC
Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val Ser Leu

Kex2 signal cleavage EcoR I Pml I Sfi I BsmB I Asp718 I

1187 GAG AAA AGA GAG GCT GAA GC**T** GAATTCAC GTGGCCCAG CCGGCCGTC TCGGATCGGT
Glu Lys Arg Glu Ala Glu Ala
Ste13 signal cleavage

Kpn I Xho I Sac II Not I Xba I c-myc epitope

1244 ACCTCGAGCC GCGGCGGCC GCCAGCTTTC TA GAA CAA AAA CTC ATC TCA GAA GAG
Glu Gln Lys Leu Ile Ser Glu Glu
polyhistidine tag

1299 GAT CTG AAT AGC GCC GTC GAC CAT CAT CAT CAT CAT CAT TGA GTTTGTAGCC
Asp Leu Asn Ser Ala Val Asp His His His His His His ***

1351 TTAGACATGA CTGTTCTCA GTTCAAGTTG GGCACCTACG AGAAGACCGG TCTTGCTAGA

3' AOX1 priming site

1411 TTCTAATCAA GAGGATGTCA GAATGCCATT TGCCTGAGAG ATGCAGGCTT CATT TTTTGGAT

3' polyadenylation site

1471 ACTTTTTTAT TTGTAACCTA TATAGTATAG GATTTTTTTT GTCATTTTGT TTCTTCTCGT