

**pPICZ $\alpha$  C 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 Glu Asp Glu Thr Ala

$\alpha$ -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 Cla I EcoR I Pml I Sfi I BsmB I

1187 GAG AAG AGA GAG GCT GAA GC **ATCGAT** GAATTCAC GTGGCCAG CCGGCCGTC TCGGA  
Glu Lys Arg Glu Ala Glu Ala  
Ste13 signal cleavage

Asp718 | Kpn I | Xho I Sac II Not I Xba I c-myc epitope

1244 TCGGTACCTC GAGCCGCGGC GGCCGCCAGC TTTCTA GAA CAA AAA CTC ATC TCA GAA  
Glu Gln Lys Leu Ile Ser Glu

polyhistidine tag

1301 GAG GAT CTG AAT AGC GCC GTC GAC CAT CAT CAT CAT CAT CAT TGA GTTTGTA  
Glu Asp Leu Asn Ser Ala Val Asp His His His His His His \*\*\*

1353 GCCTTAGACA TGA CTGTTCC TCAGTTCAAG TTGGGCACTT ACGAGAAGAC CGGTCTTGCT

3' AOX1 priming site

1413 AGATTCTAAT CAAGAGGATG TCAGAATGCC ATTTGCCTGA GAGATGCAGG CTTCAATTTTT

3' polyadenylation site

1473 GATACTTTTT TATTTGTAAC CTATATAGTA TAGGATTTTT TTTGTCATTT TGTTCCTTCT