



5' AGATCTAACATCCAAAGACGAAAGGTTGAATGAAACCTTTTTGCCATCCGACATCCACAGGTCCATTCTCACACA 75  
 3' TCTAGATTGTAGGTTTCTGCTTTCCAACCTTACTTTGGAAAACGGTAGGCTGTAGGTGTCCAGGTAAGAGTGTGT  
 AOX1 promoter >

TAAGTGCCAAACGCAACAGGAGGGGATACACTAGCAGCAGACCGTTGCAAACGCAGGACCTCCACTCCTCTTCTC 150  
 ATTCACGGTTTGC GTTGTCTCCCTATGTGATCGTCGTCTGGCAACGTTTGC GTCTCGGAGGTGAGGAGAAGAG  
 AOX1 promoter >

CTCAACACCCACTTTTGCCATCGAAAAACCAGCCCAGTTATTGGGCTTGATTGGAGCTCGCTCATTCCAATTCTC 225  
 GAGTTGTGGGTGAAAACGGTAGCTTTTTGGTCGGGTCAATAACCCGAACTAACCTCGAGCGAGTAAGGTTAAGGA  
 AOX1 promoter >

TCTATTAGGCTACTAACACCATGACTTTATTAGCCTGTCTATCCTGGCCCCCTGGCGAGGTTTCATGTTTGTTTA 300  
 AGATAATCCGATGATTGTGGTACTGAAATAATCGGACAGATAGGACCGGGGGGACCGCTCCAAGTACAAACAAAT  
 AOX1 promoter >

TTTCCGAATGCAACAAGCTCCGCATTACACCCGAACATCACTCCAGATGAGGGCTTTCTGAGTGTGGGGTCAAAT 375  
 AAAGGCTTACGTTGTTTCGAGGCGTAATGTGGGCTTGTAGTGAGGTCTACTCCC GAAAGACTCACACCCCAAGTTTA  
 AOX1 promoter >

AGTTTCATGTTCCCAAATGGCCCAAACCTGACAGTTTAAACGCTGTCTTGGAACCTAATATGACAAAAGCGTGA 450  
 TCAAAGTACAAGGGGTTTACCGGGTTTTGACTGTCAAATTTGCGACAGAACCTTGATTATACTGTTTTTCGCACT  
 AOX1 promoter >

TCTCATCCAAGATGAACTAAGTTTGTTTCGTTGAAATGCTAACGGCCAGTTGGTCAAAAAGAACTTCCAAAAGT 525  
 AGAGTAGGTTCTACTTGATTCAAACCAAGCAACTTTACGATTGCCGGTCAACCAGTTTTTCTTTGAAGGTTTTTCA  
 AOX1 promoter >

CGGCATACCGTTTTGCTTTGTTTGGTATTGATTGACGAATGCTCAAAAATAATCTCATTAAATGCTTAGCGCAGTCT  
GCCGTATGGCAAACAGAACAAACCATAACTAACTGCTTACGAGTTTTTATTAGAGTAATTACGAATCGCGTCAGA  
AOX1 promoter

600

CTCTATCGCTTCTGAACCCCGGTGCACCTGTGCCGAAACGCAAATGGGGAAACACCCGCTTTTTGGATGATTATG  
GAGATAGCGAAGACTTGGGGCCACGTGGACACGGCTTTGCGTTTACCCTTTGTGGGCGAAAAACCTACTAATAC  
AOX1 promoter

675

CATTGTCTCCACATTGTATGCTTCCAAGATTCTGGTGGGAATACTGCTGATAGCCTAACGTTTCATGATCAAAATT  
GTAACAGAGGTGTAACATACGAAGGTTCTAAGACCACCTTATGACGACTATCGGATTGCAAGTACTAGTTTTAA  
AOX1 promoter

750

TAACTGTTCTAACCCCTACTTGACAGCAATATATAAACAGAAGGAAGCTGCCCTGTCTTAAACCTTTTTTTTTAT  
ATTGACAAGATTGGGGATGAACTGTCGTTATATATTTGCTTTCCTTCGACGGGACAGAATTTGGAAAAAAAATA  
AOX1 promoter

825

CATCATTATTAGCTTACTTTTCATAATTGCGACTGGTTCCAATTGACAAGCTTTTGATTTTAAACGACTTTTAAACGA  
GTAGTAATAATCGAATGAAAGTATTAACGCTGACCAAGGTTAACTGTTTCGAAAACATAAAATTGCTGAAAATTGCT  
AOX1 promoter

900

CAACTTGAGAAGATCAAAAAACAACATAATTATTCGAAACGATGAGATTTCTTCAATTTTTACTGCTGTTTTTATT  
GTTGAACTCTTCTAGTTTTTTGTTGATTAATAAGCTTTGCTACTCTAAAGGAAGTTAAAAATGACGACAAAAATA  
AOX1 promoter

975

1 5 10  
Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe  
alpha-factor secretion signal

CGCAGCATCCTCCGCATTAGCTGCTCCAGTCAACACTACAACAGAAGATGAAACGGCACAATTCGGGCTGAAGC  
GCGTCGTAGGAGGCGTAATCGACGAGGTCAGTTGTGATGTTGCTTCTACTTTGCCGTGTTTAAAGGCCGACTTCG  
15 20 25 30 35  
Ala Ala Ser Ser Ala Leu Ala Ala Pro Val Asn Thr Thr Glu Asp Glu Thr Ala Gln Ile Pro Ala Glu Ala  
alpha-factor secretion signal

1050

TGTCATCGGTTACTCAGATTTAGAAGGGGATTTTCGATGTTGCTGTTTTGCCATTTTCCAACAGCACAAATAACGG  
ACAGTAGCCAATGAGTCTAAATCTTCCCCTAAAGCTACAACGACAAAACGGTAAAAGGTTGTCGTGTTTATTGCC  
40 45 50 55 60  
Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Gly  
alpha-factor secretion signal

1125

GTTATTGTTTATAAATACTACTATTGCCAGCATTGCTGCTAAAGAAGAAGGGGTATCTCTCGAGAAAAGAGAGGC  
CAATAACAAATATTTATGATGATAACGGTCTGTAACGACGATTTCTTCTTCCCATAGAGAGCTTTTTCTCTCCG  
65 70 75 80 85  
Leu Leu Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Lys Glu Glu Gly Val Ser Leu Glu Lys Arg Glu Ala  
alpha-factor secretion signal

1200

EcoRI PmlI KpnI SacII NotI XbaI  
TGAAGCTGAATTCACGTGGCCAGCCGGCCGTCTCGGATCGGTACCTCGAGCCGCGGGCGGCCGCTTTCTAG  
ACTTCGACTTAAGTGCACCGGGTCGGCCGGCAGAGCCTAGCCATGGAGCTCGGCGCCGCGGGCGGTTCGAAAGATC  
Myc

1275

Glu Ala Glu Phe Thr Trp Pro Ser Arg Pro Ser Arg Ile Gly Thr Ser Ser Arg Gly Gly Arg Gln Leu Ser Arg  
alpha-factor secretion signal (in frame with alpha-factor secretion signal)

MCS

AACAAAACTCATCTCAGAAGAGGATCTGAATAGCGCCGTCGACCATCATCATCATCATTGAGTTTGTAGCC  
TTGTTTTTGGTAGAGTCTTCTCCTAGACTTATCGCGGCAGCTGGTAGTAGTAGTAGTAACCAACATCGG  
1 5 10 1 5  
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser Ala Val Asp His His His His His His \*  
Myc 6xHis

1350

Thr Lys Thr His Leu Arg Arg Gly Ser Glu \*  
--- (in frame with alpha-factor secretion signal) -->

MCS