



5' CGCTCAGTGGAAACGAAAACCTCACGTTAAGGGATTTTGGTCATGAGATCAGATCTAACATCCAAAGACGAAAGGTT 75
 3' GCGAGTCACCTTGCTTTTGAGTGCAATTCCCTAAAACAGTACTCTAGTCTAGATTGTAGGTTTCTGCTTTCCAA

AOX1 promoter >

GAATGAAAACCTTTTTGCCATCCGACATCCACAGGTCCATTCTCACACATAAGTGCCAAACGCAACAGGAGGGGAT 150
 CTTACTTTGGAAAAACGGTAGGCTGTAGGTGTCCAGGTAAGAGTGTGTATTCACGTTTGC GTTGTCTCCCTA

AOX1 promoter >

ACACTAGCAGCAGACCGTTGCAAACGCAGGACCTCCACTCCTTCTCCTCAACACCCACTTTTGCCATCGAAAA 225
 TGTGATCGTCGTCTGGCAACGTTTGCCTGAGGTGAGGAGAAAGAGGAGTTGTGGGTGAAAACGGTAGCTTTT

AOX1 promoter >

ACCAGCCCAGTTATTGGGCTTGATTGGAGCTCGCTCATTCCAATTCCTTCTATTAGGCTACTAACACCATGACTT 300
 TGGTCGGGTCAATAACCCGAACTAACCTCGAGCGAGTAAGGTTAAGGAAGATAATCCGATGATTGTGGTACTGAA

AOX1 promoter >

TATTAGCCTGTCTATCCTGGCCCCCTGGCGAGGTTTCATGTTTGTATTTCGAATGCAACAAGCTCCGCATTA 375
 ATAATCGGACAGATAGGACCGGGGGGACCGCTCCAAGTACAAACAAATAAAGGCTTACGTTGTTTCGAGGCGTAAT

AOX1 promoter >

CACCCGAACATCACTCCAGATGAGGGCTTTCTGAGTGTGGGGTCAAATAGTTTCATGTTCCCAAATGGCCAAA 450
 GTGGGCTTGTAGTGAGGTCTACTCCCAGAAAGACTCACACCCAGTTTATCAAAGTACAAGGGGTTTACCGGGTTT

AOX1 promoter >

ACTGACAGTTTAAACGCTGTCTTGGAAACCTAATATGACAAAAGCGTGATCTCATCCAAGATGAACTAAGTTTGGT 525
 TGACTGTCAAATTTGCGACAGAACCTTGGATTATACTGTTTTCGCACTAGAGTAGGTTCTACTTGATTCAAACCA

AOX1 promoter >

600

675

750

825

900

975

1050

1125

1200

1275

1350

1425

TCGTTGAAATGCTAACGGCCAGTTGGTCAAAAAGAACTTCCAAAAGTCGGCATAACCGTTTGTCTTGTGTTTGGTAT
AGCAACTTTACGATTGCCGGTCAACCAGTTTTTCTTTGAAGGTTTTTCAGCCGTATGGCAAACAGAACAACCATA

AOX1 promoter

TGATTGACGAATGCTCAAAAATAATCTCATTAAATGCTTAGCGCAGTCTCTCTATCGCTTCTGAACCCCGGTGCAC
ACTAACTGCTTACGAGTTTTTATTAGAGTAATTACGAATCGCGTCAGAGAGATAGCGAAGACTTG6GGGCCACGTG

AOX1 promoter

CTGTGCCGAAACGCAAATGGGGAAACACCCGCTTTTTGGATGATTATGCATTGTCTCCACATTGTATGCTTCCAA
GACACGGCTTTGCGTTTACCCCTTTGTGGGCGAAAAACCTACTAATACGTAACAGAGGTGTAACATACGAAGGTT

AOX1 promoter

GATTCTGGTGGGAATACTGCTGATAGCCTAACGTTTCATGATCAAAATTTAACTGTTCTAACCCCTACTTGACAGC
CTAAGACCACCTTATGACGACTATCGGATTGCAAGTACTAGTTTTAAATTGACAAGATTGGGGATGAACTGTCCG

AOX1 promoter

AATATATAAACAGAAGGAAGCTGCCCTGTCTTAAACCTTTTTTTTTATCATCATTATTAGCTTACTTTTCATAATT
TTATATATTTGTCTTCTTCGACGGGACAGAATTTGGAAAAAAAATAGTAGTAATAATCGAATGAAAGTATTAA

AOX1 promoter

GCGACTGGTTCCAATTGACAAGCTTTTGATTTAACGACTTTTAAACGACAACCTTGAGAAGATCAAAAAACAATA
CGCTGACCAAGGTTAACTGTTTCGAAAACCTAAAATTGCTGAAAATTGCTGTTGAACTCTTCTAGTTTTTTGTTGAT

AOX1 promoter

ATTATTCGAAACGATGAGATTTCTTCAATTTTTACTGCTGTTTTATTTCGCAGCATCCTCCGCATTAGCTGCTCC
TAATAAGCTTTGCTACTCTAAAGGAAGTTAAAAATGACGACAAAATAAGCGTCTAGGAGGCGTAATCGACGAGG

AOX1 promoter

AGTCAACACTACAACAGAAGATGAAACGGCACAATTCGGCTGAAGCTGTCATCGGTTACTCAGATTTAGAAGG
TCAGTTGTGATGTTGTCTTCTACTTTGCCGTGTTAAGGCCGACTTCGACAGTAGCCAATGAGTCTAAATCTTCC

GGATTTGATGTTGCTGTTTTGCCATTTTCCAACAGCACAATAACGGGTTATTGTTTATAAATACTACTATTGC
CCTAAAGCTACAACGACAAAACGGTAAAAGTTGTCGTGTTTATTGCCAATAACAAATATTTATGATGATAACG

CAGCATTGCTGCTAAAGAAGAAGGGGTATCTCTCGAGAAGAGAGAGGCTGAAGCATCGATGAATTCACGTGGCCC
GTCGTAACGACGATTTCTTCTTCCCATAGAGAGCTCTTCTCTCTCCGACTTCGTAGCTACTTAAGTGCACCGGG

ClaI EcoRI PmlI

MCS

AGCCGGCCGTCTCGGATCGGTACCTCGAGCCGCGGCGGCCGCGCAGCTTTCTAGAACAAAACCTCATCTCAGAAGA
TCGGCCGGCAGAGCCTAGCCATGGAGCTCGGCGCCGCGGCGGTGAAAGATCTTGTTTTGAGTAGAGTCTTCT

KpnI SacII NotI XbaI

1 5
E Q K L I S E E
Myc

MCS

GGATCTGAATAGCGCCGTCGACCATCATCATCATCATTGAGTTTGTAGCCTTAGACATGACTGTTCTCAGT
CCTAGACTTATCGCGGCAGCTGGTAGTAGTAGTAGTAACCTCAAACATCGGAATCTGTACTGACAAGGAGTCA

10 1 5
D L N S A V D H H H H H H *
Myc 6xHis