

## Supplementary Material

### Simple and efficient expression of *Agaricus meleagris* pyranose dehydrogenase in *Pichia pastoris*

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>n-PDH\_syn

atgttgccacgtgttaccagcttaattctagattgcttcttggcattgcttggtatccaaattgcacgtggagctatcacctatcaacaccag  
atgacttgccatctggagtcgactatgactttatcgttccggaggactgctggttggtcgttcttagattgtccgaaaactccaact  
ggaaggtttggtattgaggcaggtccttctaacaaggacgcttctgaccagagttccaggtcttgcactactttgggagcaggatctcca  
attgactggaactacactaccattccacaagatggattggacggaagatccttgattaccctagagctaagattcttggtggtattctacca  
caacggatggtttactagaggtccaaggatgactggaactctgggctggtatcattggtgatcagggtcttgggtggactctatcttac  
cagctatcaagaaggctgaaaagttcactcaggattcactgaccagtctgtaagggtcacatcgaccatctgttcacggtttcgatggaaa  
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tgaatgacggtaaaccaattggattgggttgactcagtacactattgacaaccacgctgaacgttcttctctgctacctctacttgagctca  
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ccctaagggtgcttcttggggtgtcgtgaaccagacttcaaggttaagggtacctccggttgagagtcgtggacgcttctgttatccctcac  
gtccagctgcccaactcaactcctgtctacgcttctgctgaatacgttccgattgattgctaaatcttacaattaa

**Supplementary figure 1.** Codon optimized sequence of the *pdh1* gene from *Agaricus meleagis* including the native signal sequence.

>alpha-factor\_syn

atgagattcccatctatttcaccgctgtcttggtcgtgcctcctctgcattggctgccctgtaaacactaccactgaaga  
cgagactgctcaaattccagctgaagcagttatcggtfactctgacctgagggtgattcgacgtcgctgtttgccttct  
ctaactccactaacaacggtttggttcattaacaccactatcgctccattgctgctaaggaagagggtgtctctctcgag  
aagagagaggccgaagct

**Supplementary figure 2.** Codon optimized sequence of the  $\alpha$ -factor pre-pro leader peptide from *S. cerevisiae*.