

# Characterization and structural determination of cold-adapted monodehydroascorbate reductase, MDHAR, from the Antarctic hairgrass *Deschampsia antarctica*

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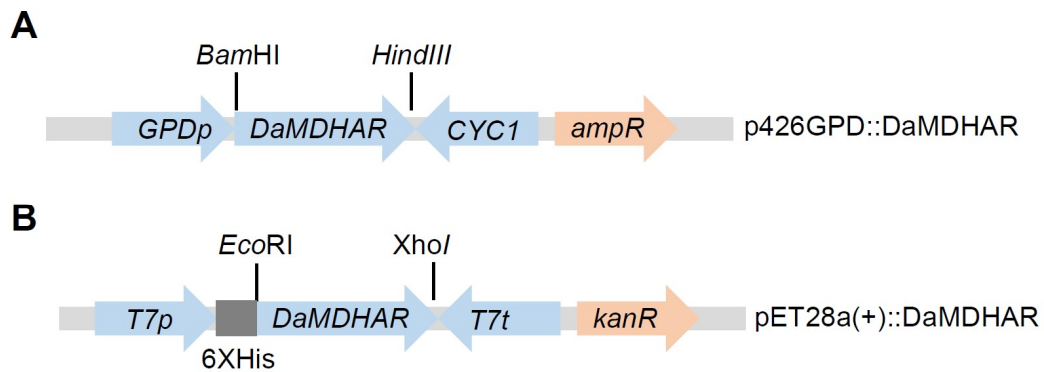
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Table S1. Genotype of the strains used in this study

Strain	Genotype	Source
<i>Escherichia coli</i>		
BL21 (DE3)	F <sup>-</sup> <i>ompT hsdS<sub>B</sub> (r<sub>B</sub><sup>-</sup>, m<sub>B</sub><sup>-</sup>) gal dcm</i> (DE3)	
DaMDHAR	F <sup>-</sup> <i>ompT hsdS<sub>B</sub> (r<sub>B</sub><sup>-</sup>, m<sub>B</sub><sup>-</sup>) gal dcm</i> (DE3), pET28a(+):DaMDAHR	This study
<i>Saccharomyces cerevisiae</i>		
BY4741	<i>MATa; his3Δ1; leu2Δ0; met15Δ0; ura3Δ0</i>	Euroscarf
WT	<i>MATa; his3Δ1; leu2Δ0; met15Δ0; ura3Δ0</i> ; p426GPD	This study
DM	<i>MATa; his3Δ1; leu2Δ0; met15Δ0; ura3Δ0</i> ; p426GPD::DaMDAHR	This study
A2 ( <i>ara2Δ</i> )	<i>MATa; his3Δ1; leu2Δ0; met15Δ0; ura3Δ0</i> ; <i>YMR041c::kanMX4</i>	Euroscarf
DA	<i>MATa; his3Δ1; leu2Δ0; met15Δ0; ura3Δ0</i> ; <i>YMR041c::kanMX4</i> ; p426GPD::DaMDAHR	This study

\*\*Euroscarf, European *Saccharomyces cerevisiae* Archive for Functional Analysis



**Figure S1.** Schematic diagram of expression vector constructs for *Saccharomyces* (A) and *Escherichia coli* (B). Each PCR amplicon of *DaMDHAR* was subcloned to pET28a(+) and p426GPD digested with endonuclease enzymes, respectively. *T7p*, T7 promoter; 6×His, Hitidine-tagged region; *T7t*, T7 terminator; *kanR*, kanamycin-resistant gene; *GPDp*, glyceraldehyde-3-phosphate dehydrogenase promoter; *CYC1t*, *CYC1* terminator; *ampR*, ampicillin-resistant gene.