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Czech Journal of

FOOD SCIENCE

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Czech J. Food Sci.

Chen X., Yang M., Sun Z., Liu W., Sun T.,

Meng H., Zhang H.
**Molecular cloning and
characterisation of
alpha subunit of H⁺-
ATPase in
Lactobacillus casei
Zhang**

Czech J. Food Sci., 27 (2009): 49-54

The acid tolerance is an important property of Lactic acid bacteria as potential probiotics. H⁺-ATPase is considered a key gene in several bacteria with the ability of acid tolerance. We cloned and sequenced the full length cDNA of alpha subunit of H⁺-ATPase gene in *Lactobacillus casei* Zhang, which had been isolated from traditional home-made koumiss in Inner Mongolia of China. The results showed that the respective cDNA sequence is composed of 1530 nucleotides and codes a putative protein including 509 amino acids. In addition, we also reconstructed the