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ACCEPTED MANUSCRIPT

Gm853 is a leucine decarboxylase

The Mouse Gm853 Gene Encodes a Novel Enzyme: Leucine Decarboxylase

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Running title: Novel leucine decarboxylase encoded by Gm853

Keywords: polyamine; isopentylamine; amino acid decarboxylases; ornithine decarboxylase antizyme inhibitor; AZIN2 paralogue; Gm853; enzyme catalysis; protein evolution; testosterone **Abbreviations**: AZ, antizyme; AZIN, antizyme inhibitor; DFMO, α-difluoromethylornithine;

DMEM, Dulbecco's Modified Eagle Medium; HEK, human embryonic kidney; LDC, leucine decarboxylase; ODC, ornithine decarboxylase; PLP, pyridoxal phosphate.

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