

Accepted Manuscript

Title: A Novel highly thermostable branched-chain amino acid aminotransferase from the crenarchaeon *Vulcanisaeta moutnovskia* 768-28

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PII: S0141-0229(16)30199-5
DOI: <http://dx.doi.org/doi:10.1016/j.enzmictec.2016.10.002>
Reference: EMT 8989

To appear in: *Enzyme and Microbial Technology*

Received date: 13-5-2016
Revised date: 31-8-2016
Accepted date: 4-10-2016

Please cite this article as: Stekhanova Tatiana N, Rakitin Andrey L, Mardanov Andrey V, Bezsudnova Ekaterina Yu, Popov Vladimir O. A Novel highly thermostable branched-chain amino acid aminotransferase from the crenarchaeon *Vulcanisaeta moutnovskia* 768-28. *Enzyme and Microbial Technology* <http://dx.doi.org/10.1016/j.enzmictec.2016.10.002>

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Highlights

- A novel archaeal BCAT was expressed in *E. coli*, purified and characterized.
- Enzyme showed a broad spectrum and unique combination of substrate specificities.
- VMUT0738 showed high (*S*)-enantioselectivity, thermostability, resistance to solvents.
- Two sequence motifs characteristic of BCATs from *Thermoproteaceae* were revealed.

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