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Title: Functional expression of FIP-fve, a fungal immunomodulatory protein from the edible mushroom *Flammulina velutipes* in *Pichia pastoris* GS115

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PII: S0168-1656(13)00404-5
DOI: <http://dx.doi.org/doi:10.1016/j.jbiotec.2013.09.013>
Reference: BIOTEC 6462

To appear in: *Journal of Biotechnology*

Received date: 5-3-2013
Revised date: 13-9-2013
Accepted date: 17-9-2013

Please cite this article as: Lin, J.-W., Jia, J., Shen, Y.-H., Zhong, M., Chen, L.-J., Li, H.-G., Ma, H., Guo, Z.-F., Qi, M.-F., Liu, L.-X., Li, T.-L., Functional expression of FIP-fve, a fungal immunomodulatory protein from the edible mushroom *Flammulina velutipes* in *Pichia pastoris* GS115, *Journal of Biotechnology* (2013), <http://dx.doi.org/10.1016/j.jbiotec.2013.09.013>

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The fungal immunomodulatory protein gene of *Flammulina velutipes* was functionally expressed in the *Pichia pastoris* GS115 in this study. In vitro hemagglutination, interleukin-2 and interferon- γ release assays showed that the purified rFIP-fve exhibited similar bioactivity to that of native FIP-fve, suggesting its potential application as a stable source and in therapeutic studies.

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