

Acta Crystallographica Section D

Volume 70 (2014)

Supporting information for article:

Expression, crystal structure and cellulase activity of the
thermostable Cellobiohydrolase Cel7A from the fungus
Humicola grisea var. *thermoidea*

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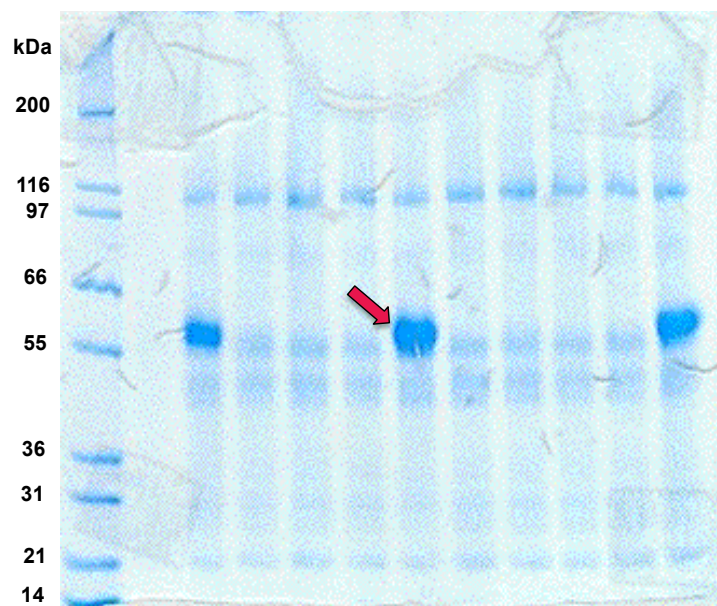


Figure S1 SDS-PAGE gel. The arrow indicates the *H. grisea* var. *thermoidea* Cel7A protein band in culture filtrate from expression of the enzyme in a *Hypocrea jecorina* strain deleted for the four major cellulases (*cbh1*, *cbh2*, *egl1*, *egl2*), as described in the main article.

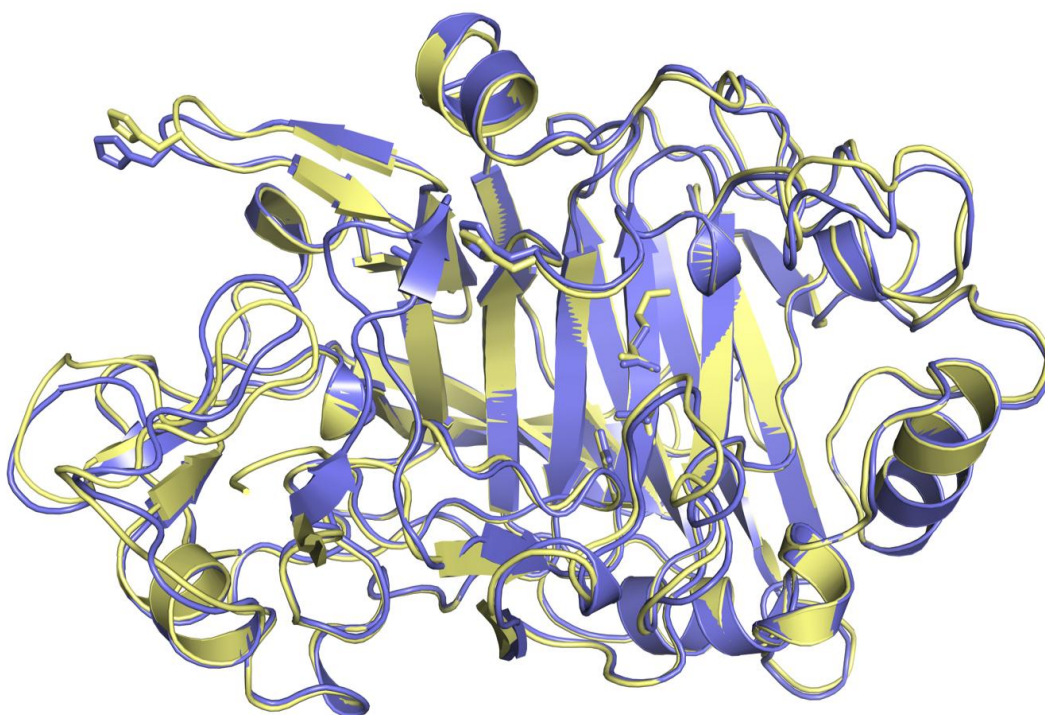


Figure S2 Superposition of the backbones of chain A (blue) and chain B (yellow) of the *Humicola grisea* var. *thermoidea* Cel7A catalytic domain structure (4CSI).

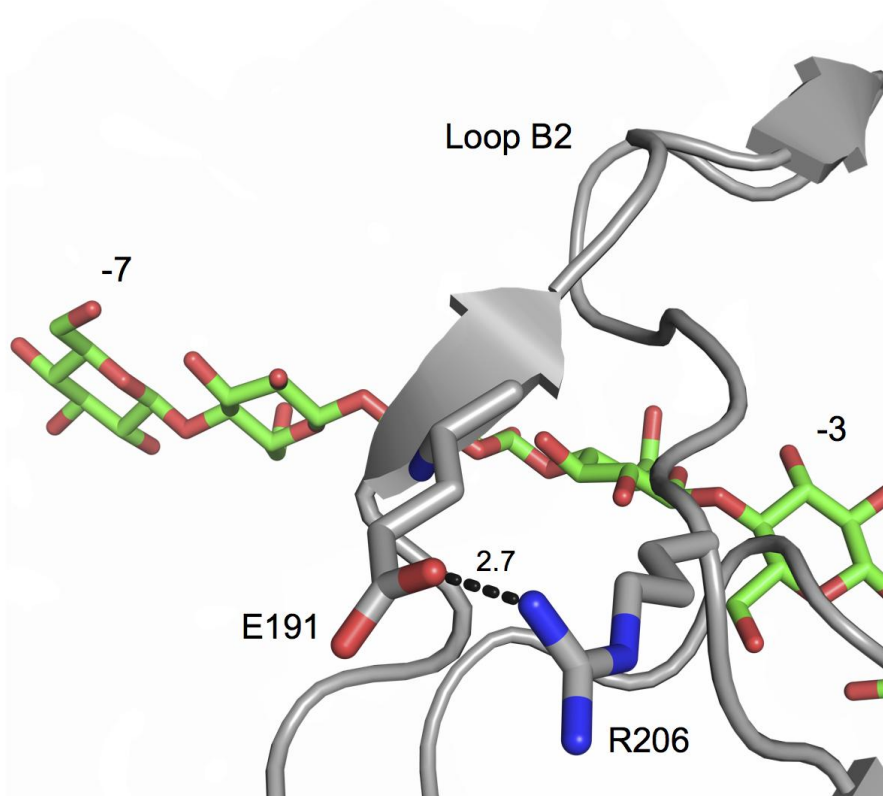


Figure S3 Salt bridge hydrogen bonding between Glu191 and Arg206 stabilizes loop B2 at the base of the loop. The cellodextrin chain (green) is taken from the *H. jecorina* Cel7A Michaelis complex 4C4C. Glucosyl-binding subsites -7 and -3 are indicated.