

## STRUCTURAL BIOLOGY

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Supporting information for article:

Structural analysis of a function-associated loop mutant of the substrate-recognition domain of Fbs1 ubiquitin ligase

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Figure S1 (a) Structure of wild-type Fbs1 SBD with chitobiose (green) (PDB ID: 1UMI) (Mizushima et al., 2004). (b) Structures of Fbs1 SBD loop-mutant 1 Mol. A (gray) and Mol. B (blue) in the asymmetric unit. (c) Structure of FBG3 SBD (sky blue). The hydrogen bonds between Mol. A and Mol. B are indicated as red dashed lines. The residues of hydrogen bonding pairs and the carbohydrate-binding pocket are depicted as stick models. The four loops $\beta 2-\beta 3, \beta 5-\beta 6, \beta 7-\beta 8$, and $\beta 9-\beta 10$ are colored purple blue, cyan, magenta, and yellow, respectively. Wild-type Fbs1 SBD, Mol A, and FBG3 SBD are shown in the same orientation.


Figure S2 Crystal contacts of Fbs1 SBD loop-mutant 1. (a) The crystal contacts of four loops in the symmetry related molecules from $b$-axis view. Molecules A-F are colored gray, blue, cyan, magenta, light blue, and light pink, respectively. The hydrogen bonds are indicated as red dashed lines. The residues of hydrogen bonding pairs and the carbohydrate-binding pocket are depicted as stick models. The four loops of Mol. A, $\beta 2-\beta 3, \beta 5-\beta 6, \beta 7-\beta 8$, and $\beta 9-\beta 10$, are colored purple blue, cyan, magenta, and yellow, respectively. (b) Close-up view of the interface between Mol. A and Mol. D. (c) Close-up view of the pi-stacking interaction interface between Mol. A and Mol. F. (d) Close-up view of the interface between Mol. A and Mol. F.

