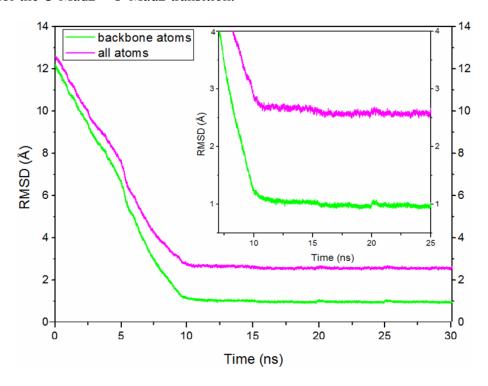
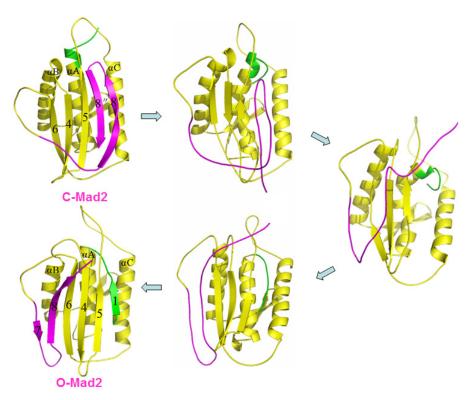
## **Supplementary Information**

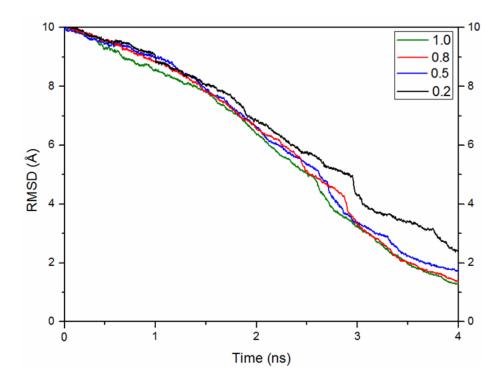
**Figure S1.** RMSD values of all backbone atoms and all atoms of the whole protein are shown for the C-Mad2→O-Mad2 transition.



**Figure S2.** The three-dimensional structures of the conformational transition pathway determined by TMD from C-Mad2 to O-Mad2.



**Figure S3.** RMSD value of backbone atoms for the conversion of O-Mad2 to C-Mad2 using varying force constants k, in kcal/(mol·Å<sup>2</sup>), shown in the inset.



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