Supplementary Materials

Linker-Mediated Inactivation of the SAM-II Domain in the Tandem SAM-II/SAM-V Riboswitch

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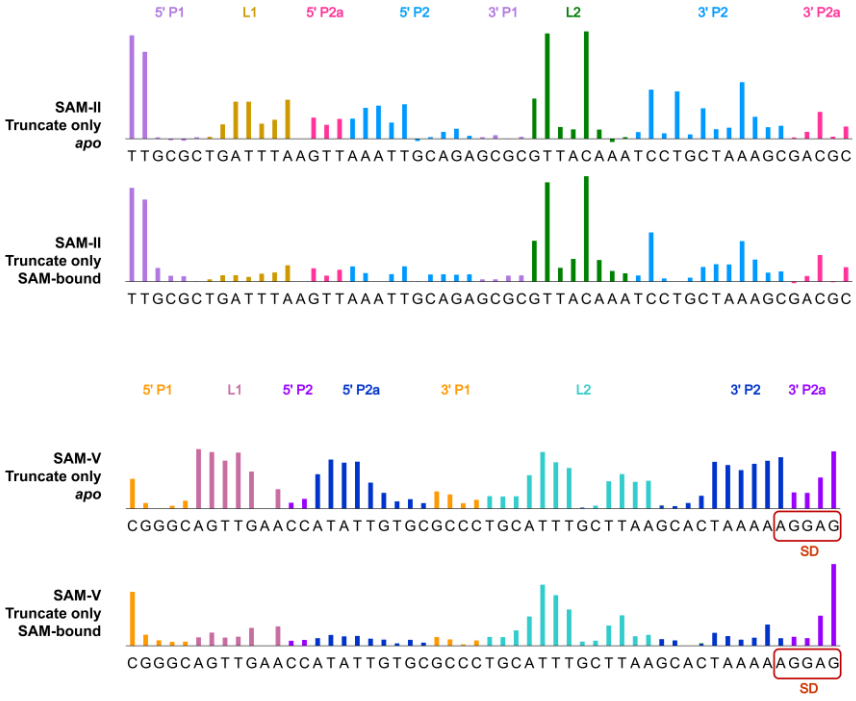


Figure S1. SHAPE analysis of SAM-II/SAM-V in truncate only under the *apo* and SAM bound states. The upper two lanes represent the SHAPE profile of *apo* state (row 1) and ligand-bound state (row 2) for SAM-II truncate only. The lower two lanes represent profile of the *apo* state (row 3) and the ligand bound (row 4) for SAM-V truncate only.

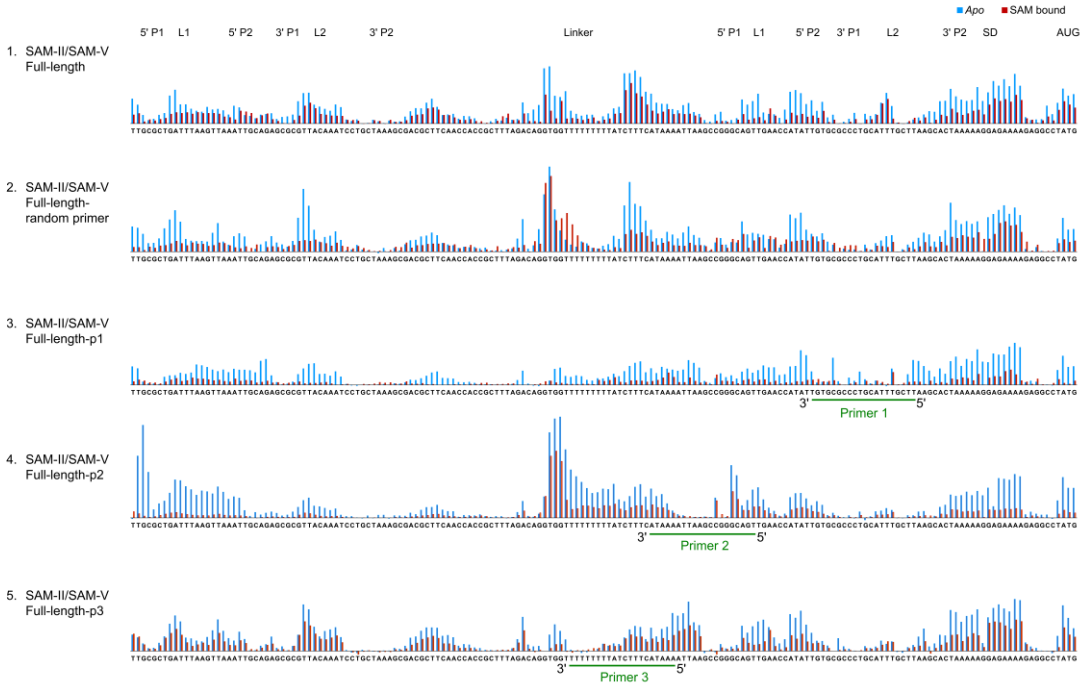


Figure S2. SHAPE analysis of full-length tandem SAM-II/SAM-V riboswitch conformational changes under SAM binding and anti-oligonucleotides interference. Blue bars indicate the *apo* state and red bars indicate SAM bound state. Green horizontal lines indicate the primer positions. Row 1: control reaction without anti-oligonucleotide interference. Row 2: random primer that has no pairing with full-length tandem SAM-II/SAM-V riboswitch. Row 3: primer 1 pairing with the SAM-V 3′-end of 5′ P2, 3′ P1, and L2. Row 4: primer 2 pairing with 3′-end of linker, 5′ P1, and 5′-end of SAM-V L1. Row 5: primer 3 pairing with U83-U90 poly-U of linker. Positive bars indicate reduced SHAPE activity upon SAM interaction and anti-oligonucleotide interference.