



Extended Data Figure 3. Structural analysis of MmCAT1:FrMLV-RBD. (a) Secondary structure of MmCAT1. (b) Topology of MmCAT1. (c) Structure and density of MmCAT1's Cys226 and Cys309. (d) Structures of MmCAT1, GkApcT, B0,+AT1, and LAT1, aligned on the APC domain. (e) Open book diagram of MmCAT1:FrMLV-RBD complex interface. (f) Arginine binding of MmCAT1 and GkApcT, colored in purple and green, respectively. (g) Position of the Na₂ site in LeuT, and the occupying Asn197 of MmCAT1 and Lys191 of GkApcT. MmCAT1, GkApcT, and LeuT are colored in purple, green, and yellow, respectively.