length hADAR2 or hADAR2-D for 1 hour. Reacted dsRNA was treated with P1 nuclease, the resulting 5'-NMPs separated by thin-layer chromatography, and the plate exposed to a phosphorimage screen. Lane 1, no protein control; Lane 2, hADAR2 treated dsRNA; Lane 3, hADAR2-D treated RNA. Origin, 5'AMP and 5'IMP spots are indicated.

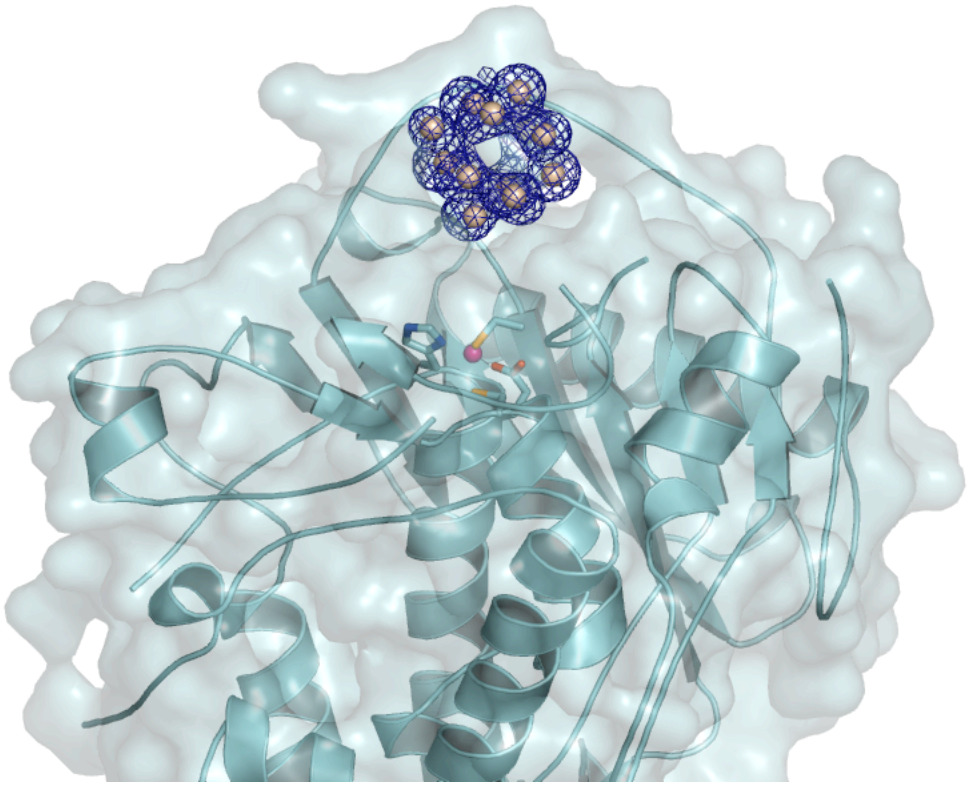

Figure S2. The electron density of a tungstate cluster containing 12 tungsten atoms observed in the heavy atom derivative (the tungsten atoms are modeled as grey spheres). The cluster is bound to a positively charged region on the surface near the active site of hADAR2-D (8 Å from the zinc, pink sphere). The density was calculated using ($F_{tungstate}$-F_{native}) with protein phases computed from the thimerosal derivative, and is contoured at 4σ.