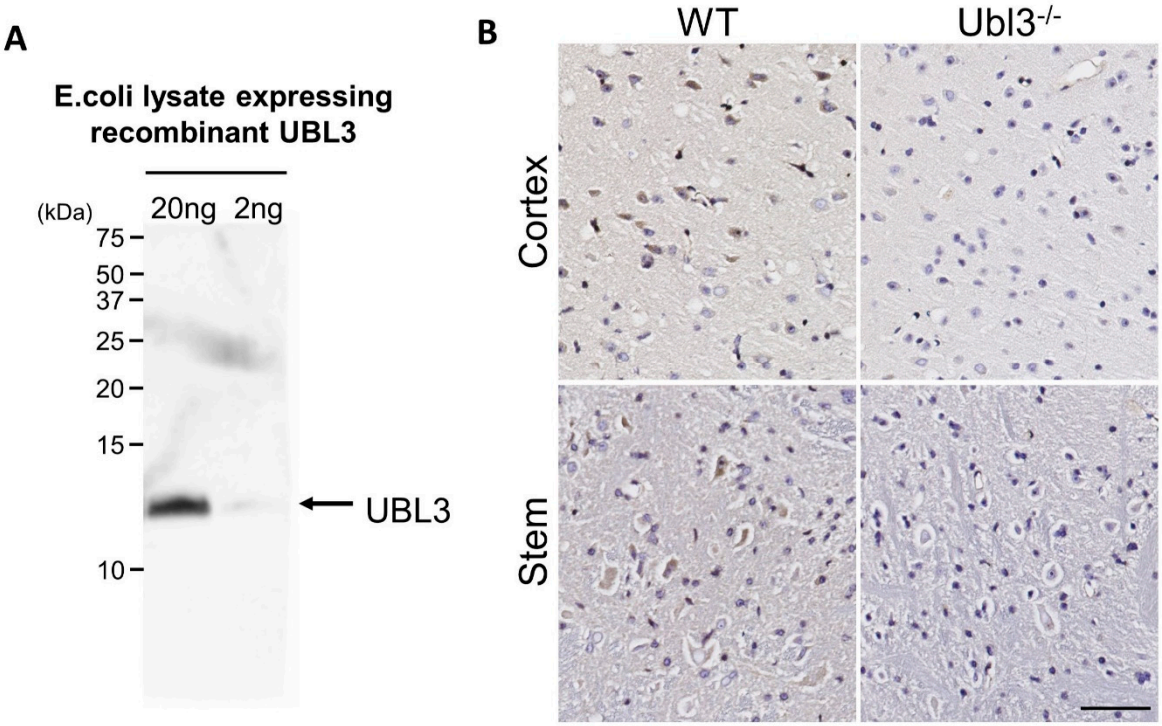


**Figure S1.** Immunoblotting and immunohistochemical staining results obtained by using the polyclonal anti-UBL3 antibody (Scale bars, 50 μm WT: wild type; Ubl3-/-: Ubl3 knockout):
(A) immunoblotting results using E. coli lysates expressing recombinant UBL3, including 20 ng/lane and 2 ng/lane, and (B) immunohistochemical staining results in WT and Ubl3-/- mice brains.

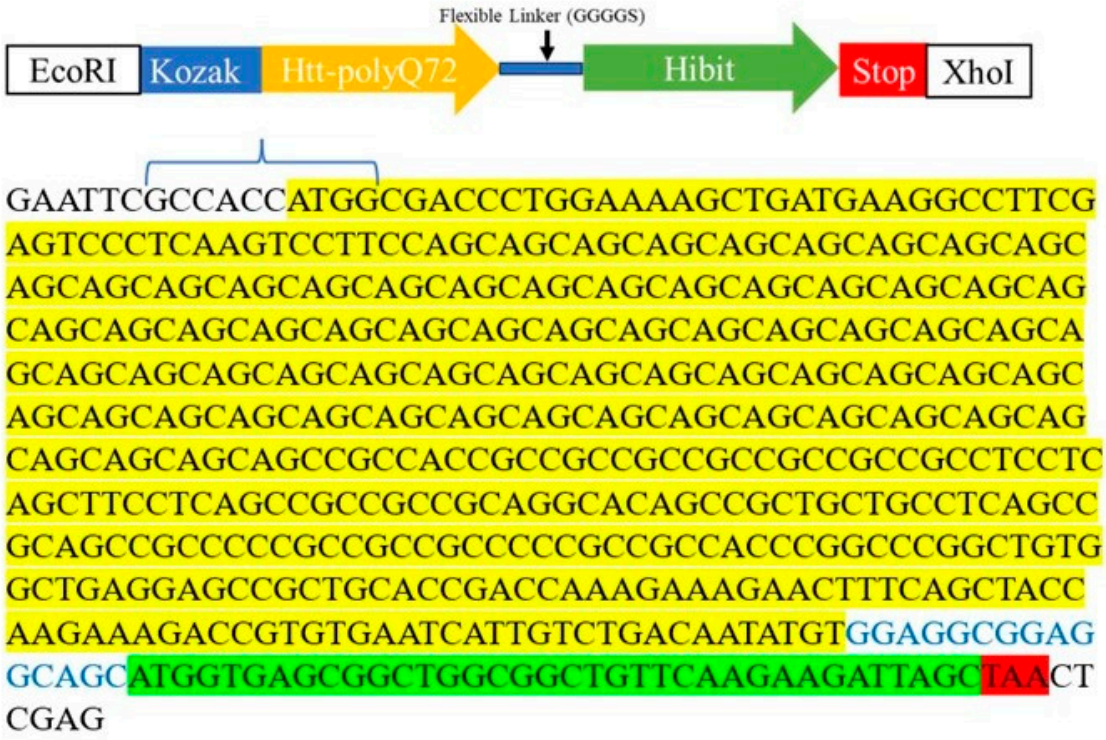


**Figure S2.** Schematic and sequence of nHTTpolyQ72-HiBiT.