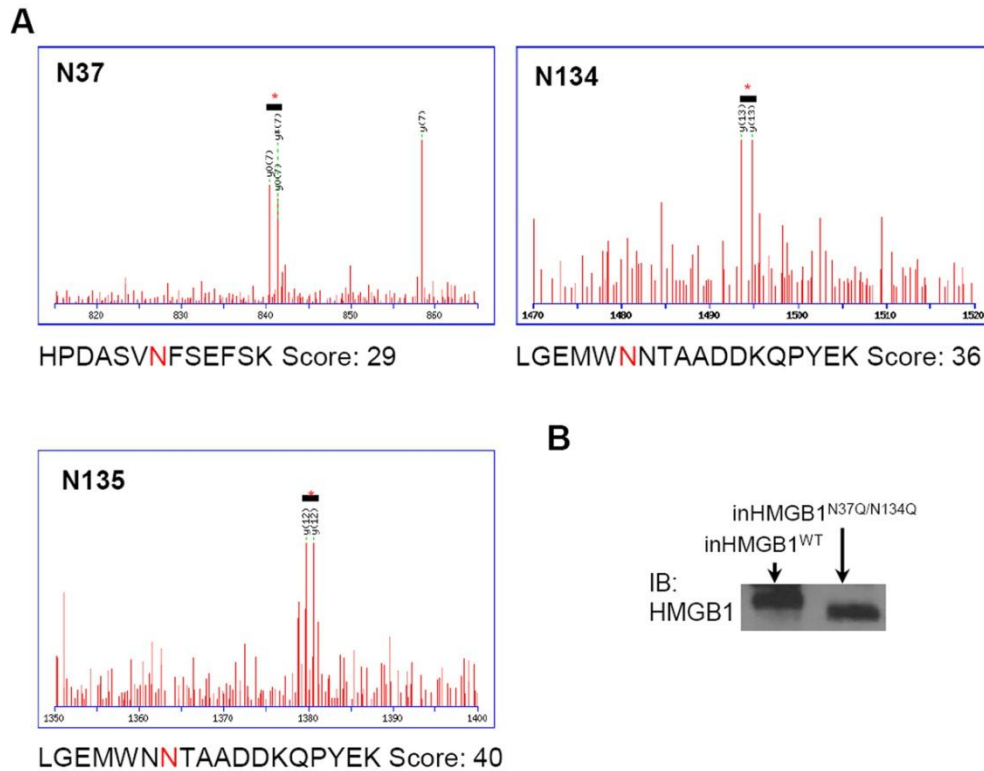
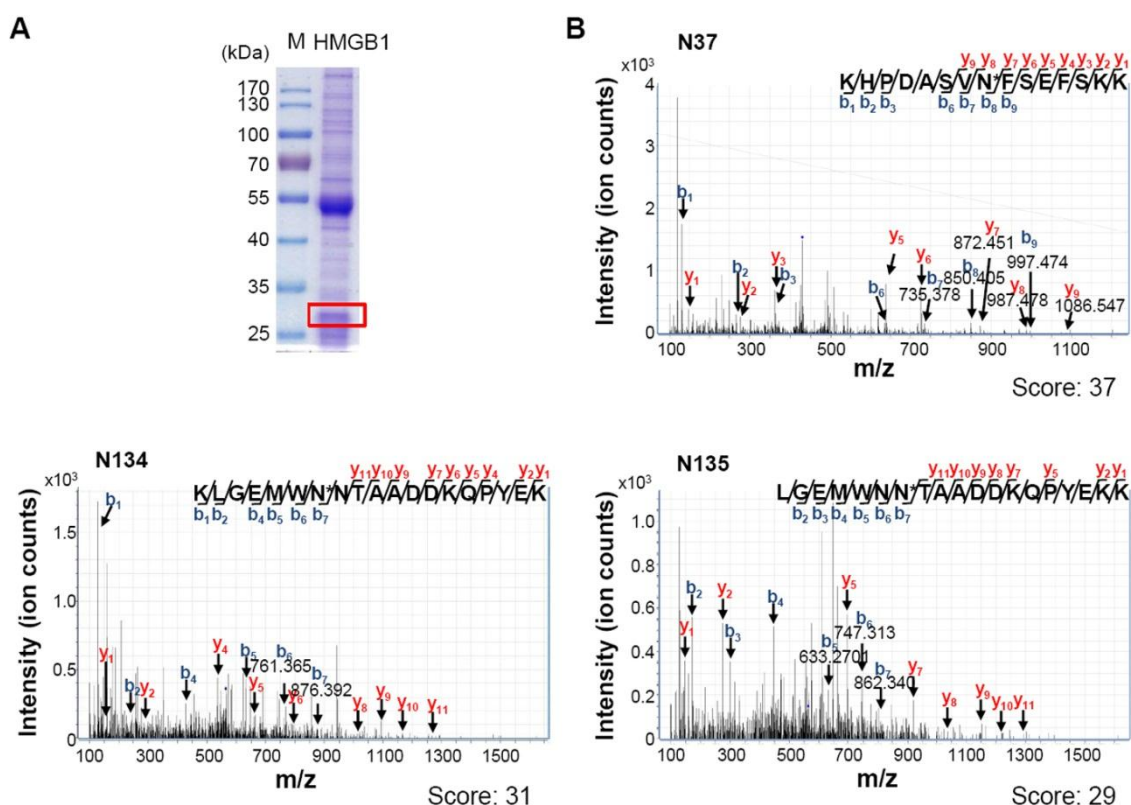


## Supplementary information



**Figure S1. LC-MS/MS analysis of insHMGB1<sup>WT</sup>.** (A) LC-MS/MS analysis of insHMGB1<sup>WT</sup> produced in insect SF9 cells. Asn37, 134, and 135 were converted to Asp after PNGase F treatment when a sugar molecule was added onto the NH<sub>3</sub><sup>+</sup> group of Asn, displaying an increase of 0.98 Da. Each HMGB1 peptide sequence analyzed is described. Score: 29 (N37), 36 (N134), 40 (N135). (B) The insHMGB1<sup>WT</sup> and insHMGB1<sup>N37Q/N134Q</sup> proteins were purified from SF9 insect cells and immunoblotted with anti-HMGB1 antibody for mobility shift assay.





**Figure S3. LC-MS/MS analysis of endogenous HMGB1.** (A) Whole cell lysates of HEK293T cells were immunoprecipitated with anti-HMGB1 antibody to purify endogenous HMGB1 using pre-cleared protein G beads. SDS-PAGE was performed and stained with Coomassie blue to extract endogenous HMGB1 (box) for analysis. M: marker. (B) LC-MS/MS analysis of endogenous HMGB1 performed. Endogenous HMGB1 was treated with PNGase F, and the molecular shifts of peptides including Asn37, Asn134 and Asn135 could be observed after PNGase F treatment.