

Figure S1. A. SDS-PAGE (left) and western blot (right) of the soluble fraction of cell lysates of the expression test. B. Culture growth (OD) and protein production yield of all the protein mutants derived from T22-HSNBT1-H6. C. SDS-PAGE (left) and western blot (right) of the purified proteins after production at Erlenmeyer-scale.

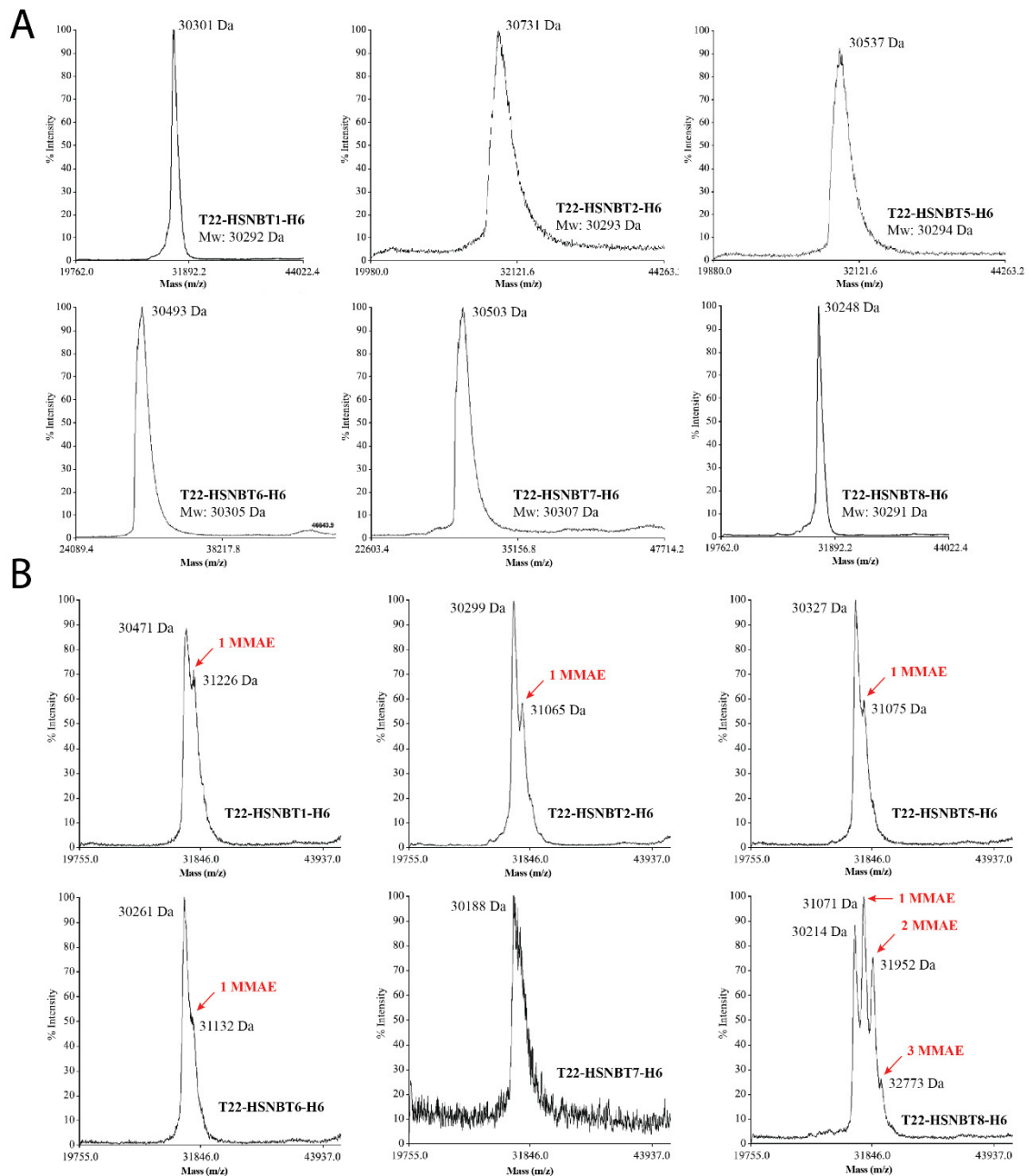


Figure S2. A. MALDI-TOF mass spectrometry spectrum of the purified candidate proteins after the expression test. The theoretical size of all proteins is approximately 30.3 kDa. B. MALDI-TOF mass spectrometry spectrum of the candidate proteins after conjugation with MMAE (soluble fraction). Red arrows indicate each peak with additional ~1 kDa over the expected protein weight, belonging to a conjugated protein with an extra MMAE (911 Da) attached.