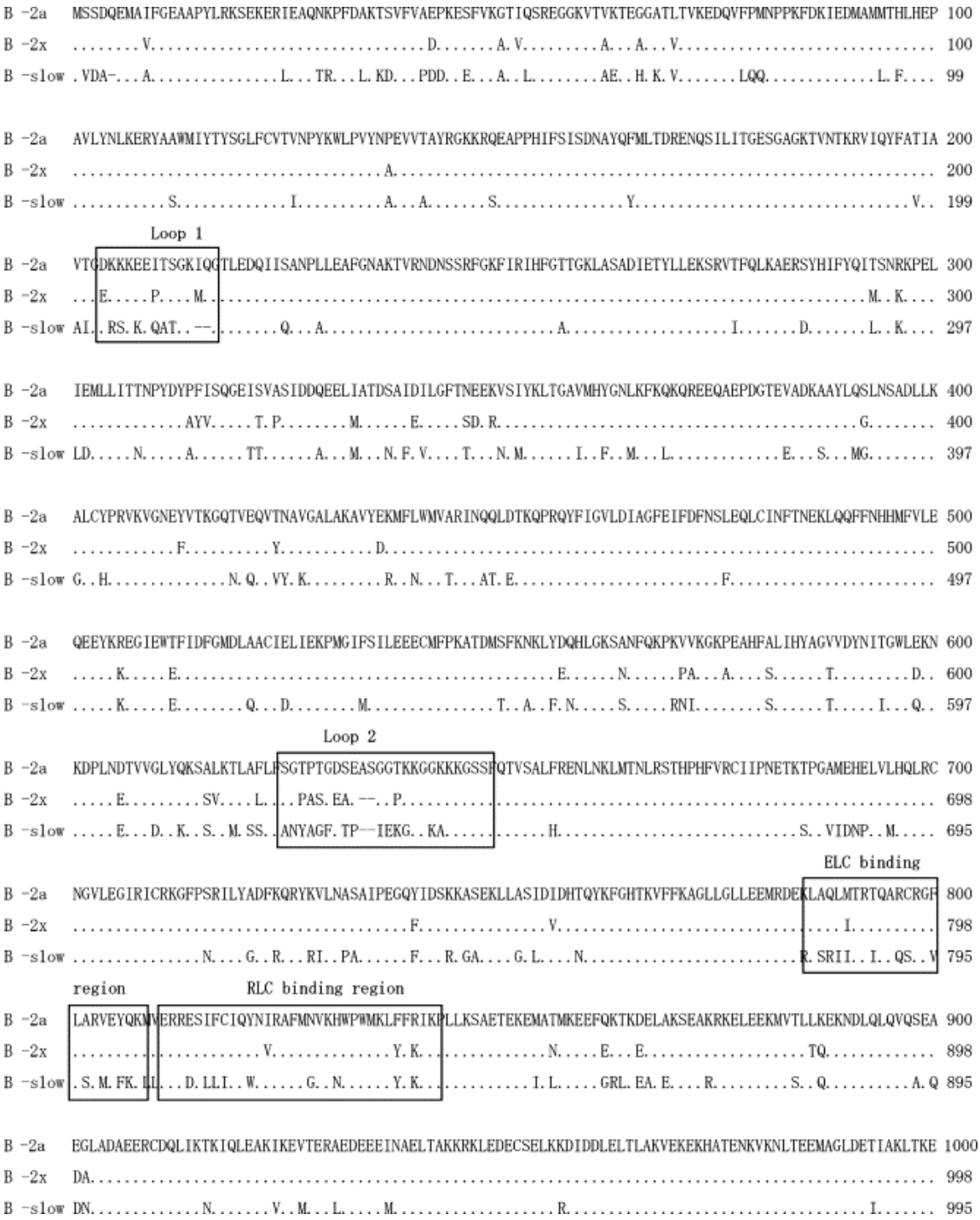
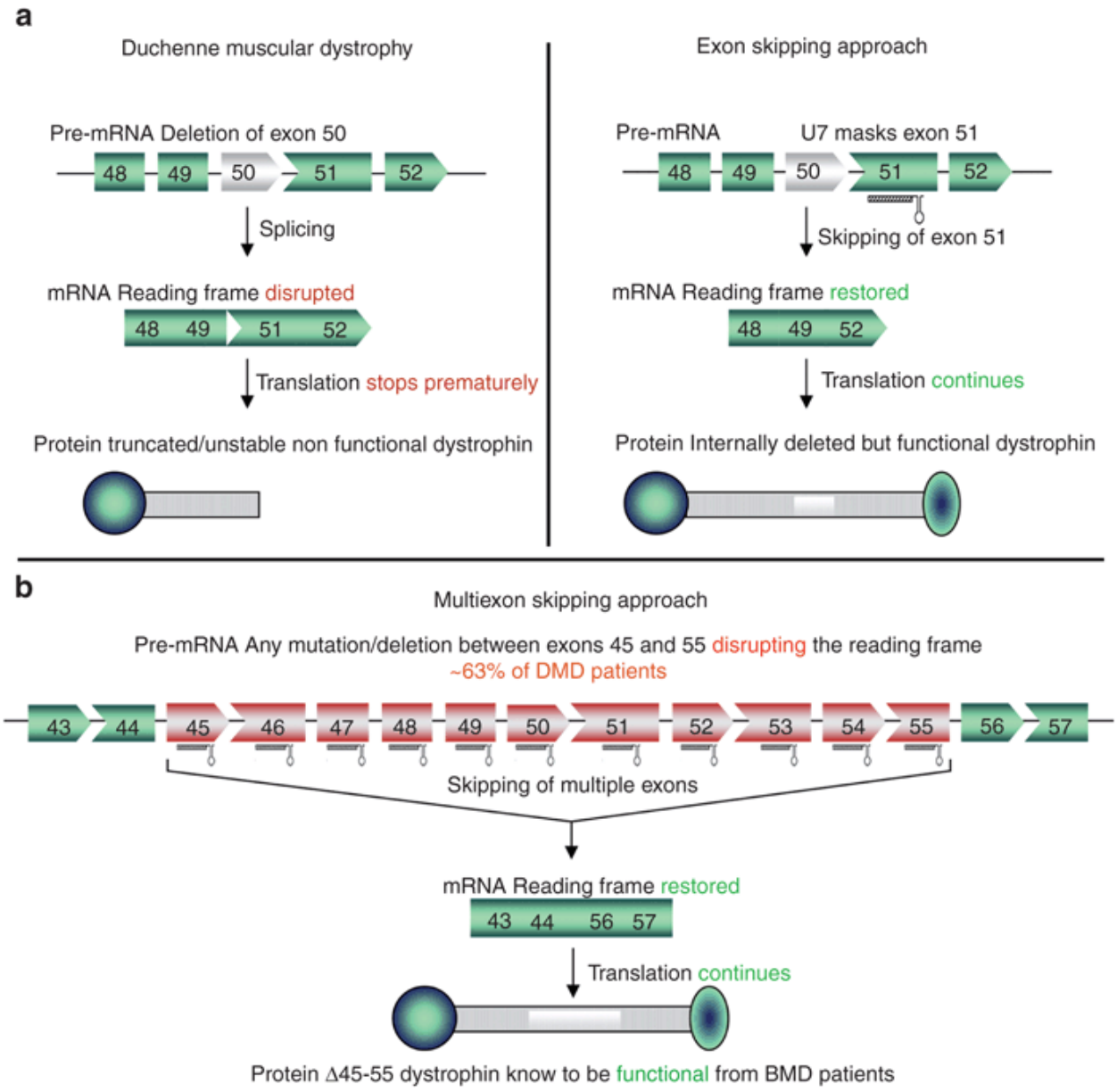
# Engineering muscle cells

OUTLINE

I. Why and how would you engineer muscles
II. Example 1: myosin types I, IIa, and IIx
III. Example 2: dystrophin protein (connects actin with proteins on inside of cell membrane)




Cow myosin heavy chain amino acid sequences. From K. Chikuni et al., *Meat Science* **67**: 87-94, 2004.




Using antisense oligonucleotides (AONs) for exon skipping, a possible treatment for Duchenne's Muscular Dystrophy (DMD). From A. Goyenvalle et al., *Molecular Therapy* **26**: 1212-1221, 2012.