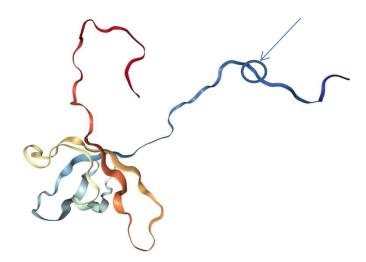
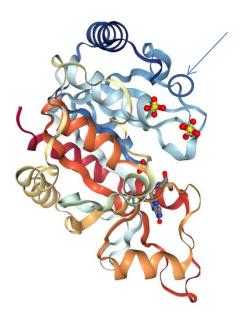


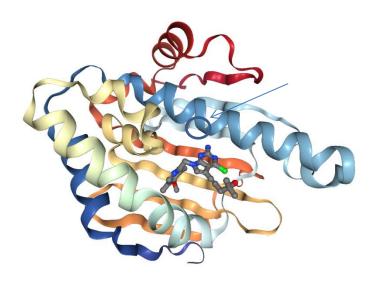
**Supplementary Figure 1.** Legumain cleavage of filamin B (Uniprot: O75369, PDB structure: 2EEC). Cleavage site is annotated at Asn2483.



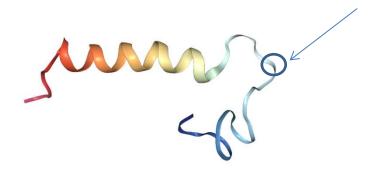
**Supplementary Figure 2.** Legumain cleavage of cold shock domain-containing protein E1 (Uniprot: O75534, PDB structure: 2YTX). Cleavage site is annotated at Asn175.



**Supplementary Figure 3.** Legumain cleavage of purine nucleoside phosphorylase (Uniprot: P00491, PDB structure: 1RSZ). Cleavage site is annotated at Arg58.



**Supplementary Figure 4.** Legumain cleavage of heat shock protein HSP 90-beta (Uniprot: P08238, PDB structure: 3NMQ). Cleavage site is annotated at Asn46.



**Supplementary Figure 5.** Legumain cleavage of elongation factor 1-delta (Uniprot: P29692, PDB structure: 2MVM). Cleavage site is annotated at Asn164.