

### **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Mass spectrometry data of SP+ US9, associated with Fig. 1.

File Name: Supplementary Data 2

Description: Mass spectrometry data of SP- US9, associated with Fig. 1.

File Name: Supplementary Data 3

Description: Mass spectrometry data of  $\Delta$ Ig US9, associated with Fig. S2.

File Name: Supplementary Data 4

Description: Mass spectrometry data of  $\Delta$ Ser US9, associated with Fig. S2.

File Name: Supplementary Data 5

Description: Mass spectrometry data of  $\Delta$ N-Ser US9, associated with Fig. S2.

File Name: Supplementary Data 6

Description: Mass spectrometry data of SEL1L, associated with Fig. 6.