

## **Description of Additional Supplementary Files**

### **File Name: Supplementary Data 1**

**Description:** Disease candidate and peptide selection. This data table contains the mutation candidates studied in this paper and the diseases they cause.

### **File Name: Supplementary Data 2**

**Description:** Specific and differential peptide-protein interactions. This data table contains information on all the proteins identified as significant and differential interactors after performing the PRISMA.

### **File Name: Supplementary Data 3**

**Description:** SLiMs in candidate peptides. Data information on the SLiM-Domain pairs identified in the PRISMA.

### **File Name: Supplementary Data 4**

**Description:** Proteomic data for FLAG IPs. Data from the FLAG IP experiments. It contains the MaxQuant output protein groups and all the subsequent filtering and analysis.

### **File Name: Supplementary Data 5**

**Description:** Proteomic data for alanine scanning. This data table contains information from MaxQuant output protein groups and subsequent filtering and analysis.

### **File Name: Supplementary Data 6**

**Description:** Proteomic data for BioID. The data table contains the results of the BioID experiment, including the MaxQuant output and the subsequent data filtering and transformation.