



**Figure 2 – figure supplement 1. Utilizing overlapping peptides to call high confidence peptides. a)** Schematic showing use of overlapping 15mers, containing redundant 9mers. Each 9mer is present in seven 15mers; for each 9mer, we calculate how many of these seven 15mers enriched. **b)** Number of peptides containing a given 9mer that are hits, for SARS-CoV-2 nucleocapsid on HLA-DR401. Black=hits in both undoped and doped libraries; blue=hits in undoped library only; red=hits in doped library only. Enrichment categories are stacked, for a maximum of seven 15mer hits, since each 9mer is present in seven 15mers.