

Figure 1 displays the amino acid sequence alignment of the PRF1 protein across four species: human (hg), PRF1\_hgA, PRF1\_hgB, and PRF1\_hgC. The alignment is presented in a grid format, with columns representing amino acid positions (1 to 550) and rows representing the protein variants. The sequences are color-coded to highlight differences: blue for identical residues, green for conservative substitutions, and red for non-conservative substitutions. Key positions are marked with arrows and numbers (20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500, 520, 540) indicating specific residues or regions of interest. The alignment shows high conservation across the species, with minor variations observed in the PRF1\_hgA and PRF1\_hgB variants compared to the human (hg) and PRF1\_hgC sequences.

hg	A	V	W	-
PRF1_hgA	A	V	W	*
PRF1_hgB	A	V	W	*
PRF1_hgC	A	V	W	*