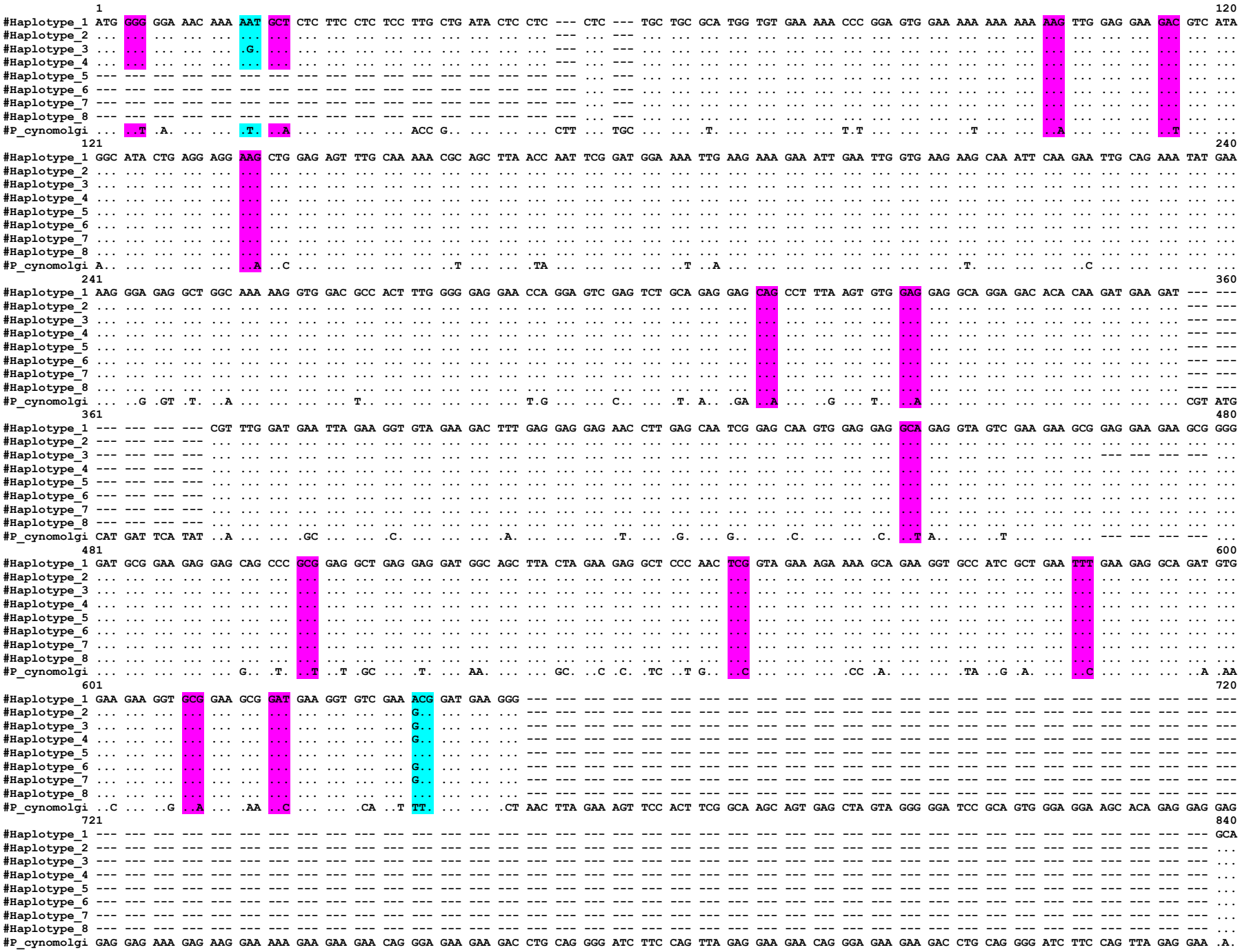
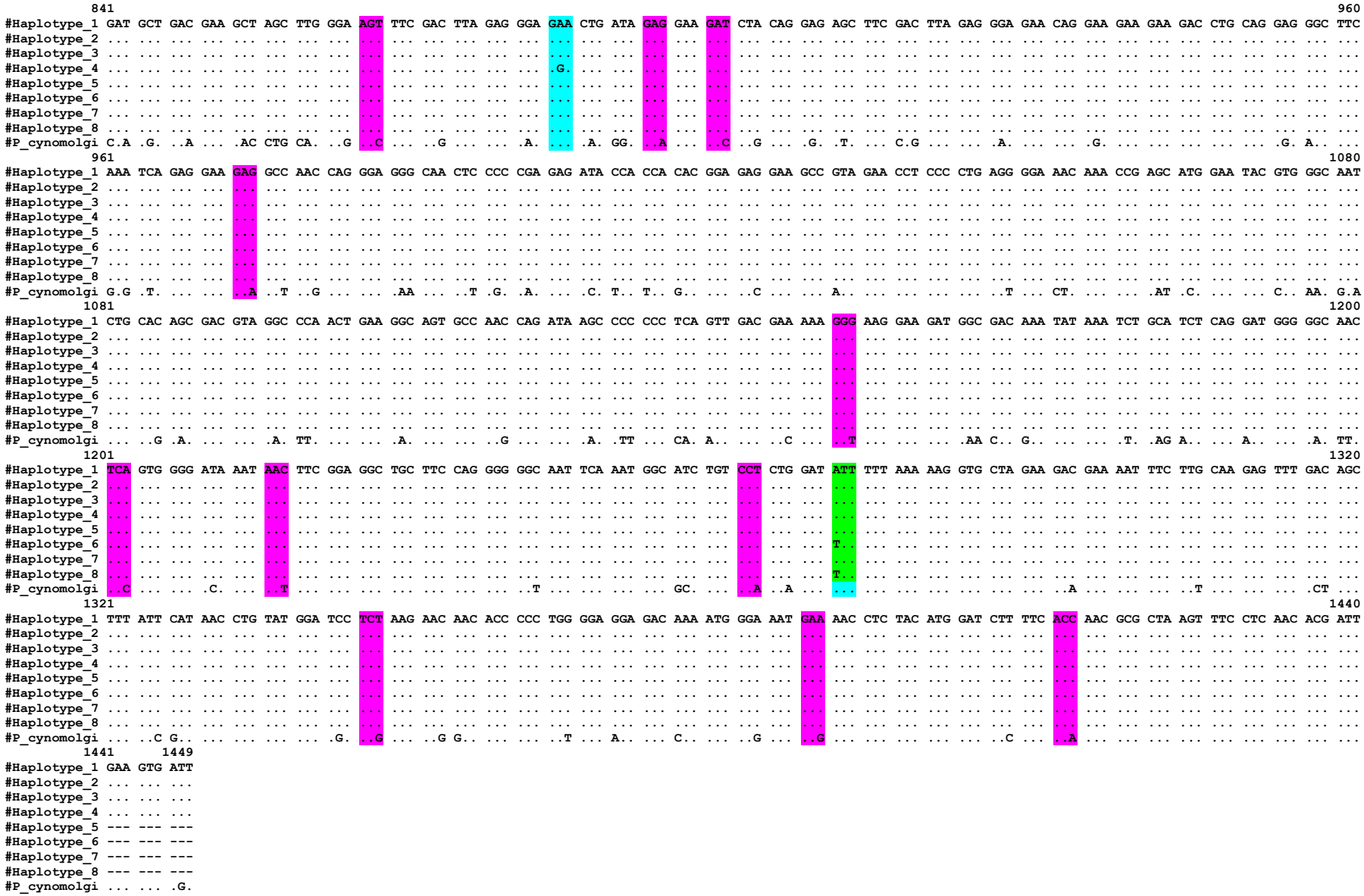
# Additional file 9 *pvmsp-7F* gene alignment





The alignment shows the 8 haplotypes found in *pvmsp-7F* together with *pcmsp-7F* haplotype. Haplotype 1, Sal-I; Haplotype 2, Brazil-I and North Korea; Haplotype 3, India-VII; Haplotype 4, Mauritania-I; Haplotypes 5-8, Colombian isolates. Dots represent nucleotide identity. Codons under positive selection are shown in green (intra-species) and turquoise (inter-species) and those under negative selection are shown in fuchsia (inter-species).