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Molecular characterization of multidrug-resistant Salmonella Isangi in hospitalized patients

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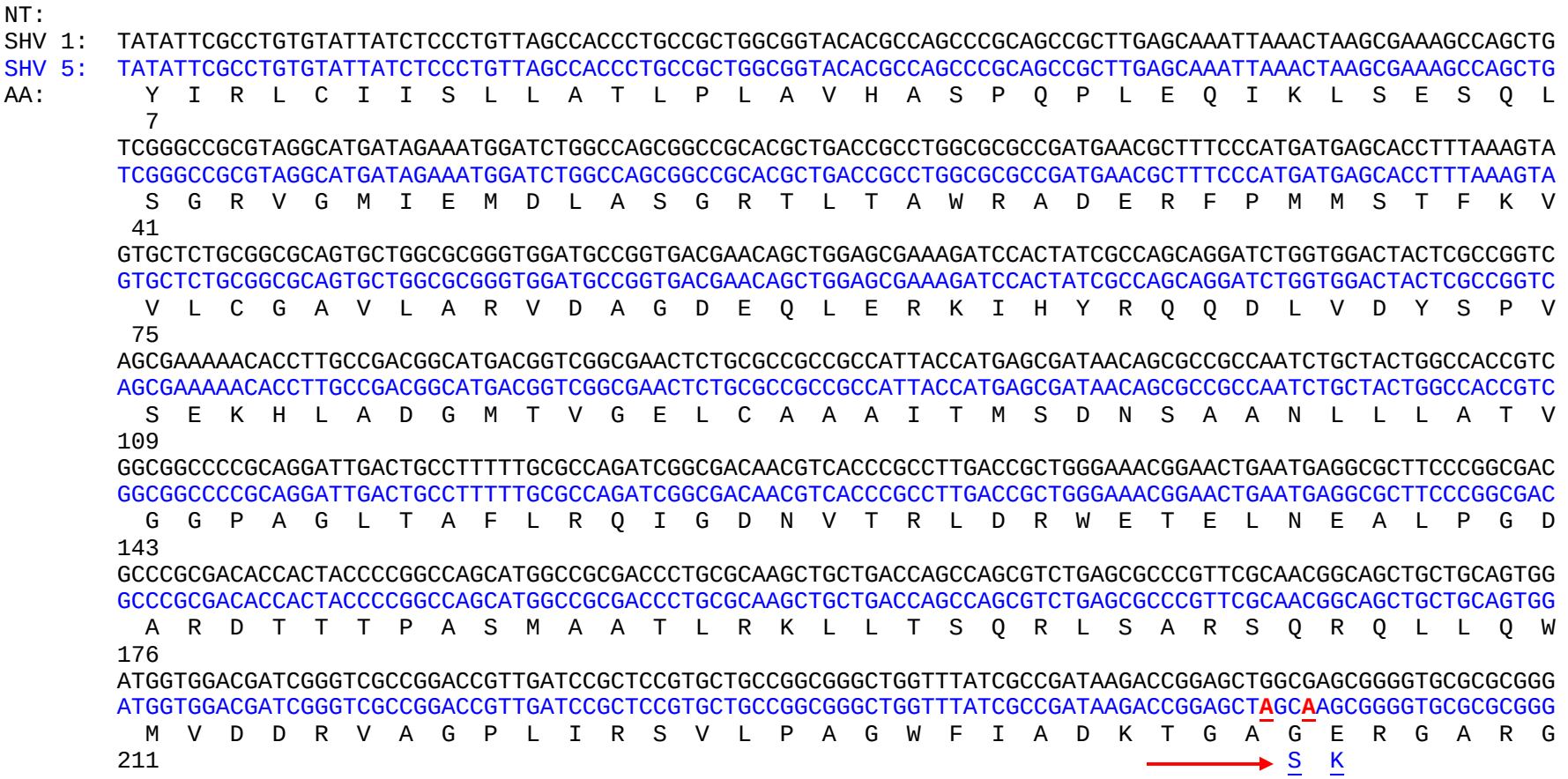

NT[a]: nucleotide sequence; AA*:* amino acid sequence

Figure 4.5 Partial nucleotide and amino acid sequences of SHV-1 and SHV-5 depicting the point mutations at amino acid positions 238 and 240.

Nucleotide mutations are underlined in red and the resulting amino acid change underlined in blue.
[a] Amino acid residues are numbered according to the numbering system of Ambler *et al*., (1981).
A, alanine; C, cysteine; D, aspartic acid; E, glutamic acid; F, phenylalanine; G, glycine; H, histidine; I, isoleucine; K, lysine; L, leucine; M, methionine; N, asparagine; P, proline; Q, glutamine; R, arginine; S, serine; T, threonine; V, valine; W, tryptophan.