

Table S2. Summary of N2, N7 and N8 mutations screened in the nine H10 AIV strains under study (Italy 1994-2007) and known to be associated with reduced susceptibility to oseltamivir and zanamivir drugs, as previously reviewed [36, 83].

N Subtypes	Amino acid change (N2 numbering)	Phenotypic consequences	References
N2	E119A	Reduced susceptibility to zanamivir	[84,85]
	E119D	Reduced susceptibility to zanamivir	[84,86]
	E119G	Reduced susceptibility to zanamivir	[84,87]
	R292K	Reduced susceptibility to oseltamivir and zanamivir	[84,86,88]
	N294S	Reduced susceptibility to zanamivir	[89]
	I314V	Reduced susceptibility to oseltamivir	[90]
N7	E119G	Reduced susceptibility to zanamivir	[91]
	E119D	Reduced susceptibility to zanamivir	[91]
	E119V	Reduced susceptibility to oseltamivir	[91]
	R152W	Reduced susceptibility to oseltamivir and zanamivir	[91]
	H274Y	Reduced susceptibility to oseltamivir	[91]
	E276D	Reduced susceptibility to zanamivir	[91]
	R292K	Reduced susceptibility to oseltamivir and zanamivir	[91]
	D293N	Reduced susceptibility to oseltamivir and zanamivir	[91]
	S111N+E119D	Reduced susceptibility to zanamivir	[91]
N8	I275T+E276D	Reduced susceptibility to zanamivir	[91]
	E119V	Reduced susceptibility to oseltamivir and zanamivir	[89]
	Q136K	Reduced susceptibility to zanamivir	[92]
	G147V	Reduced susceptibility to zanamivir	[92]
	H274Y	Reduced susceptibility to oseltamivir	[89]
	R292K	Reduced susceptibility to oseltamivir and zanamivir	[92]
	N294S	Reduced susceptibility to oseltamivir	[89,93]