Table S4. Amino acid substitutions in the HA and NA segments of influenza A samples (2025–2026 season).
(Only missense (non-synonymous) substitutions with allele frequency ⩾80% are listed. Samples are grouped by subtype and confirmed Nextclade HA clade. Substitution notation follows [Reference AA][Position][Variant AA] convention - H1 numbering for H1N1 HA, N1 numbering for H1N1 NA; H3 numbering for H3N2 HA, N2 numbering for H3N2 NA.)

Sample	Clade (HA)	HA amino acid substitutions	NA amino acid substitutions
Influenza A(H1N1) pdm09			
A/Athens.GR/110/2025	D.3.1	T137A, K319E, R325K, D373E, I389V, I477T, V537A	D50N, S200N, K217R, I264T, E382G
A/Athens.GR/ILI684/2025	D.3.1	T137A, S138I, A156D, I389V, I477T, V537A	D50N, V67I, A98V, S200N, I264T, N341S, E382G
A/Athens.GR/46/2026 [1]	D.3.1	T137A, E252K, I389V, I477T, V537A	D50N, A98V, S200N, I264T, E382G, I443V
A/Athens.GR/SENT18409/2025	D.3.1.1	H54N, R130K, T137A, A156D, E300K, K319E, I389V, I477T, V537A	D50N, A86V, P93S, S200N, S247N, I264T, M314I, E382G
A/Athens.GR/A1/2025	D.3.1.1	R130K, T137A, A156D, E300K, K319E, I389V, I477T, V537A	D50N, P93S, S200N, S247N, I264T, M314I, E382G
Influenza A(H3N2)			
A/Athens.GR/103/2025 [1]	J.2.2	G78K, S140N, K223Q, P255Q, V363M, S394N	P46S, D346G
A/Athens.GR/SENT18351/2025 [1]	J.2.2	G78K, S140N, K223Q, P255Q, V363M, S394N	P46S, D346G
A/Phthiotis.GR/SENT16445/2025	J.2.3	S70N, G94S, N174K, K205R, N232H, S394N	M24L, D221N, T247K, I262V, H310R, D346N, P386S
A/Athens.GR/ILI628/2025	K	K18N, V104I, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, L260V, T344A, S394N	H264N, D346G, N358D, N385D
A/Corfu.GR/117/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D
A/Ioannina.GR/ILI691/2025	K	K18N, T151K, S160N, N161S, S165N, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D
A/Ioannina.GR/ILI692/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, SN384SD, K387N
A/Athens.GR/ILI683/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D
A/Thesprotia.GR/SENT10499/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, SN384SD, K387N
A/Athens.GR/SARI16526/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, I307M, D346G, N358D, N385D
A/Athens.GR/SENT18416/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D

A/Ioannina.GR/ILI675/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D, P386S
A/Athens.GR/SENT18405/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D, P386S
A/Phthiotis.GR/SENT16418/2025	K	K18N, T151K, S160N, N161S, N174D, I176K, Q189R, K205R, T344A, S394N	H264N, D346G, N358D, N385D

[1] Partial genome - HA and NA fully assembled and included, polymerase segments partially covered