Table S6. Internal Segment Substitutions (2025–2026 Season).

Missense amino acid substitutions in the internal gene segments (PB2, PB1, PA, NP, M, NS) of influenza A samples (2025–2026 season). Only non-synonymous substitutions with allele frequency ≥80% are listed. Dashes (—) indicate no missense substitutions detected in that segment.

Sample	Clade	PB2	PB1	PA	NP	M	NS
Influenza A(H1N1)pdm09							
A/Athens.GR/110/2025	D.3.1	I81M, L475M, T524N	K57T, E180K, M397I	V14I, M61I, L63I, R262K, D272E, K339N	E14D, T22A, I33V, I136L, V217I, Q453P	—	—
A/Athens.GR/ILI684/2025	D.3.1	I66M, I81M, L475M, I559M	K57T, E178G, P454S, D729E	V14I, V44I, M61I, L63I, R262K, K339N	E14D, T22A, I33V, I136L, V217I, Q453P	—	—
A/Athens.GR/46/20261	D.3.1	I66M, I81M	D729E	—	E14D, T22A, I33V, I136L, V217I, Q453P	—	—
A/Athens.GR/SENT18409/2025	D.3.1.1	I66M, I81M, K187R, L475M, I559M	K57T, V660I	V14I, K19R, M61I, L63I, R262K, K339N, M548I	E14D, T22A, I33V, S84N, I136L, V217I, Q453P, S467T	—	—
A/Athens.GR/A1/2025	D.3.1.1	I66M, I81M, K187R, L475M, I559M	K57T, R623K	V14I, K19R, M61I, L63I, R262K, K339N	E14D, T22A, I33V, I136L, R175K, V217I, Q453P	—	—
Influenza A(H3N2							
A/Athens.GR/103/20251	J.2.2	—	—	G397E	S482N	—	R44K
A/Athens.GR/SENT18351/20251	J.2.2	—	—	—	S482N	—	R44K
A/Phthiotis.GR/SENT16445/2025	J.2.3	P104S, T292A, V451I	—	G397E	—	—	—
A/Athens.GR/ILI628/2025	K	E341D, I394V, V560I	—	G397E	—	—	L185F
A/Corfu.GR/117/20251	K	—	—	G397E	—	—	L185F
A/Ioannina.GR/ILI691/2025	K	E341D, I394V, V560I	—	K142R, S272N, T313S, G397E	—	—	L185F
A/Ioannina.GR/ILI692/2025	K	E341D, I394V, V560I	—	G397E	—	—	L185F
A/Athens.GR/ILI683/2025	K	E341D, I394V, V560I	—	I13V, D386G, G397E	—	—	L185F

A/Thesprotia.GR/SENT10499/2025	K	E341D, I394V, V560I	—	G397E	—	—	L185F
A/Athens.GR/SARI16526/2025	K	E341D, Y360F, I394V	—	G397E	—	—	L185F
A/Athens.GR/SENT18416/2025	K	E341D, I394V, V560I, T598A	—	I13V, G397E	—	—	L185F
A/Ioannina.GR/ILI675/2025	K	K22R, E341D, I394V, V560I	L65F	V379I, G397E	—	—	L185F, M222V
A/Athens.GR/SENT18405/2025	K	E341D, I394V, V560I	—	G397E	—	—	L185F, M222V
A/Phthiotis.GR/SENT16418/2025	K	E341D, I394V, V560I	—	G397E	—	—	L185F