

Phylogenetic analysis of influenza H1pdm lineage HA genes

25/26 vaccine strain in Japan

HI reference strain

December 2025

January 2025

February 2026

March 2026

#: WHO recommended vaccine strain (Northern/Southern Hemisphere, season, egg/cell)

clade	subclade	AA substitution
5a	A	N129D, T185I
5a.1	B	D187A, Q189E
5a.2	C	N156K, L161I
5a.2a	C.1	K54Q, A186T, Q189E, K308R
-	C.1.2	A48P
-	C.1.3	A73T, A141E
-	C.1.4	S85P, D94N, V321I
-	C.1.5	T185V
-	C.1.6	L70I, K169R, K211Q
-	C.1.7	D94N, I533V
-	C.1.7.1	V152I
-	C.1.7.2	K142R
-	C.1.8	T120A, V47I
-	C.1.9	T120A, K169Q
-	C.1.9.1	P137S
-	C.1.9.2	N38D, K480R
-	C.1.9.3	S83P, I510T
-	C.1.9.4	Q54K, D86N, N125D, I149V
5a.2a.1	C.1.1	P137S, K142R
-	D	T216A
-	D.1	R45K
-	D.2	R113K
-	D.3	T120A, I372V
-	D.3.1	I460T, V520A
-	D.3.1.1	R113K, A139D, E283K, K302E
-	D.4	T120A
-	D.5	R45K

