Run antisera induced by commercial vaccines against your isolate in HI assay. Do any vaccine-induced antisera have an HI titer >40?

Choose commercial vaccine with highest HI reactivity.*

A custom vaccine is more likely to confer protection.

Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Vaccines meeting these criteria are likely to protect. Choose the one with highest HA similarity.*

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Sequence HA. Are any vaccine strains >95% similar, with no/few differences at key antigenic sites?

NO

Replicon particle (RP) vaccine delivering strain-specific HA

YES

Sequence HA. Are any vaccine strains >95% similar, with no/few differences at key antigenic sites?

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

NO

Re-attempt virus isolation to make standard autogenous vaccine.

YES

Identify the subtype and genetic cluster. Is this cluster or sub-cluster represented in any commercial vaccines?

A custom vaccine is more likely to confer protection. Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Yes

Run antisera induced by commercial vaccines against your isolate in HI assay. Do any vaccine-induced antisera have an HI titer >40?

Choose commercial vaccine with highest HI reactivity.*

A custom vaccine is more likely to confer protection.

Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

No strain data or ability to make autogenous vaccine. Choose any polyvalent vaccine.

A custom vaccine is more likely to confer protection. Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Sequence HA. Are any vaccine strains >95% similar, with no/few differences at key antigenic sites?

Was IAV-S identified and culturable?

NO

Virus detected by PCR. Is any of the HA gene sequenced?

NO

Identify the subtype and genetic cluster. Is this cluster or sub-cluster represented in any commercial vaccines?

YES

Choose commercial vaccine with highest HI reactivity.*

A custom vaccine is more likely to confer protection.

Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Yes

Run antisera induced by commercial vaccines against your isolate in HI assay. Do any vaccine-induced antisera have an HI titer >40?

Choose commercial vaccine with highest HI reactivity.*

A custom vaccine is more likely to confer protection.

Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Vaccines meeting these criteria are likely to protect. Choose the one with highest HA similarity.*

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Sequence HA. Are any vaccine strains >95% similar, with no/few differences at key antigenic sites?

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Re-attempt virus isolation to make standard autogenous vaccine.

NO

Re-attempt virus isolation to make standard autogenous vaccine.

YES

Choice commercial vaccine with highest HI reactivity.*

A custom vaccine is more likely to confer protection. Two main options:

- Standard autogenous vaccine
- Replicon particle (RP) vaccine delivering strain-specific HA

Vaccines meeting these criteria are likely to protect. Choose the one with highest HA similarity.*

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Sequence HA. Are any vaccine strains >95% similar, with no/few differences at key antigenic sites?

Vaccines may have limited efficacy. Choose the one with highest HA similarity -OR- make a custom vaccine

Re-attempt virus isolation to make standard autogenous vaccine.

* = Tests to identify the subtype and genetic cluster of an isolate can be performed simultaneously with HI assays to evaluate the efficacy of commercial vaccines against that isolate.