

ONETest™ Influenza EnviroScreen

The **ONETest™ Influenza EnviroScreen** assay allows the sensitive and scalable detection of influenza viruses in environmental samples. The assay is highly optimized for soil and wetland sediment samples from temperate regions, and can simultaneously identify and differentiate all 16 hemagglutinin and 9 neuraminidase subtypes. Thus, the assay can facilitate large-scale environmental screening for influenza viruses.

The **ONETest™** system when used in conjunction with most next-generation sequencing machines offers a complete bench-top-to-desktop solution. It consists of the UniPrep™ universal library preparation kit, patent-pending QuantumProbes™ designed to capture over 95% of known influenza virus strain diversity, and comprehensive bioinformatics analysis in the FusionCloud™, a secure and compliant cloud computing environment.

ONETest™ Influenza EnviroScreen assay allows:

- 1 Sensitive detection of influenza viruses in environmental samples, especially soil and wetland sediment samples
- 2 Capture of the entire hemagglutinin (HA) and neuraminidase (NA) segments as well as conserved regions of the matrix segment
- 3 Simultaneous identification of all known influenza viruses (H1 to H16 and N1 to N9) in a single reaction
- 4 Detection of multiple co-occurring types, subtypes, and strains
- 5 Discovery of mutations possibly associated with changes in certain phenotypic traits (e.g., pathogenicity)
- 6 Semi-quantitative estimation of viral load

The ONETest™ Influenza EnviroScreen assay was applied on a set of environmental samples. Example data shows that the assay can (1) detect a spectrum of influenza subtypes (including H5N2) and (2) identify co-occurring subtypes.

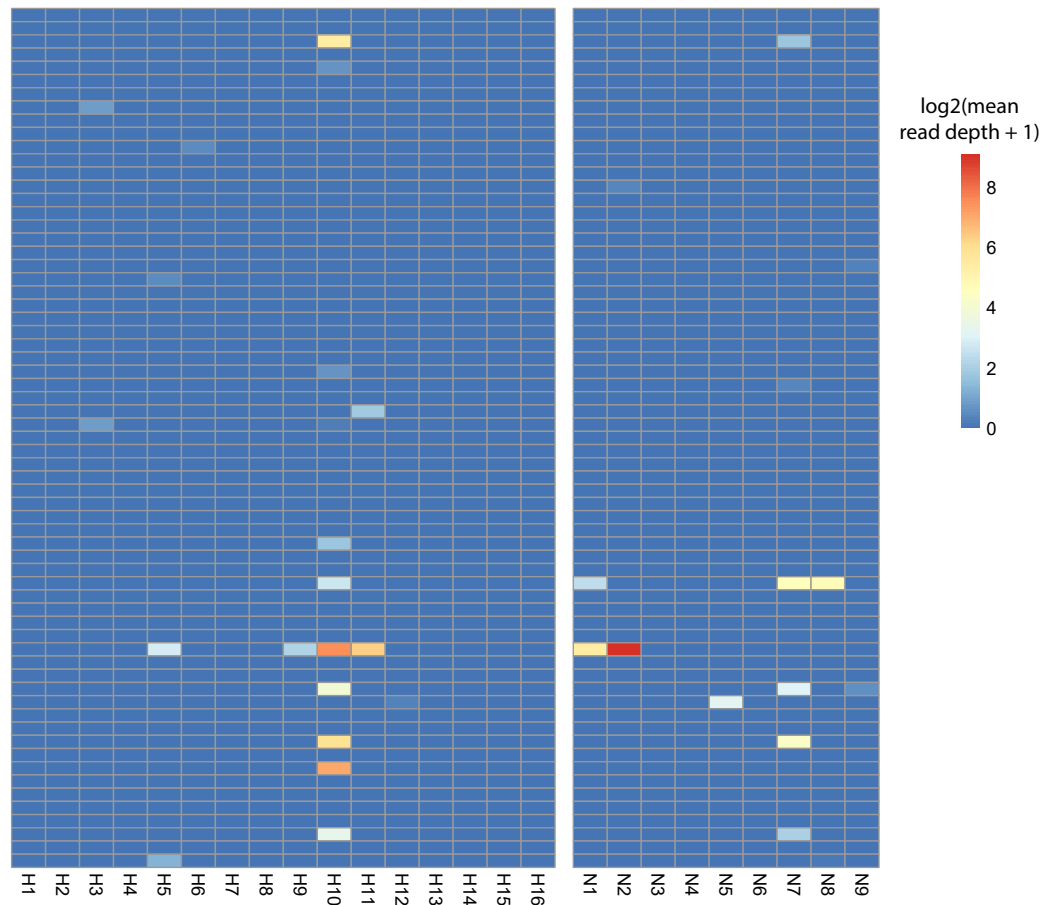


Figure: Subtype calls for a set of environmental samples. Data was generated using an Illumina NextSeq® machine from environmental samples processed using the ONETest™ Influenza EnviroScreen protocol. Influenza typing was performed on the FusionCloud™. The data shows that the assay can identify H5N2 and other influenza virus subtypes.

Learn more

For more information about the **ONETest™ Influenza EnviroScreen** assay and the **ONETest™** system, please visit: WWW.FUSIONGENOMICS.COM

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