

SARS-CoV-2 synthetic genome D614G MA1 – Quick reference manual

Complete product information and additional resources are available at codexdna.com

Catalog number SC2-FLSG-4455

Product details

The mouse-adapted gen 1 SARS-CoV-2 D614G reference material carries mutations within the RBD domain of the spike protein (Q498Y, P499T) to enable entry into cells using mouse ACE2 receptor¹ and also the D614G mutation within the spike protein². T7 promoter at the 5' end of the genome makes it IVT-ready. The genome sequence is based on the SARS-CoV-2 isolate Wuhan-Hu-1 isolate (GenBank accession number MN908947.3). This material opens a safe and accurate path to vaccine, therapeutic, and diagnostic research and development. The reference material is synthesized by the Codex DNA BioXp™ system.

Description	SARS-CoV-2 complete synthetic reference material D614G; mouse-adapted
Biosafety level	BSL-1 (non-infectious)
Package contents	One vial
Package format	Clear polypropylene vial with a pink cap
Volume	100 µL per vial
Concentration	50 ng/µL
Storage conditions	-20 °C
Shipping conditions	-20 °C (dry ice)
Intended use	Research use only

Instructions for use

NOTE: The mouse-adapted gen 1 SARS-CoV-2 D614G reference material is classified as non-infectious. However, it is recommended that the user adhere to safe laboratory practices conducive to a BSL-1 laboratory to prevent potential product contamination and exposure.

1. Thaw the material on ice.
2. Vortex gently; pulse-spin in a microcentrifuge to settle the material at the bottom of the vial.
3. Keep the vial on ice while in use.
4. Return the remaining material (if applicable) to storage temperature.
5. Each vial can be thawed and frozen up to three times.

References

1. <https://www.nature.com/articles/s41586-020-2708-8>
2. <https://www.nature.com/articles/s41586-020-2895-3>