



**virellaSARS-CoV-2 seqc real time RT-PCR kit 2.0 (gerbion cat. No. G01128)**  
**respiraScreen 1 real time RT-PCR kit (gerbion cat No. G01129)**  
**respiraScreenSC2-FluA/B seqc (gerbion cat. No. G01130)**  
**respiraScreen 2 real time RT-PCR kit (gerbion cat No. G01131)**  
**respiraSC2 multi gene real time RT-PCR kit (gerbion cat No. G01133)**  
**respiraScreen 2 LC real time RT-PCR kit (gerbion cat No. G01134)**  
**virellaSARS-CoV-2 4G seqc real time RT-PCR kit (gerbion cat. No. G01137)**

#### **UPDATE 2021/06/21**

#### **Influence of mutations in the SARS-CoV-2 Spike protein gene on the detection:**

In silico analysis by gerbion, analyzing the following spike protein gene mutations was performed on the available sequences in the global databases of gene bank (NCBI) and GISAID (EpiCov™).

The following mutations include the Variants of Concern / Variants of Interest:

VOC: B.1.1.7 [**Alpha**], B.1.351 [**Beta**], P.1/B.1.1.28 [**Gamma**], B.1.617.2 [**Delta**]

VOI: B.1.429 [**Epsilon**], B.1.427 [**Epsilon**], P.2 [**Zeta**], B.1.525 [**Eta**], P.3 [**Theta**], B.1.526 [**Iota**], B.1.617.1 [**Kappa**],  
C.37 [**Lambda**]

SARS-CoV-2 Spike protein mutations:

L18F, H66D, Δ69/70, G75V, T76I, D80A, G142V, Δ144, Δ157/158, D215G, Δ241/243, Δ247/253, P337S, F338L, V341I, F342L, A344S, A348S, N354D, A352S, S359N, V367F, N370S, A372T, A372S, F377L, K378N, K378R, P384L, T385A, T393P, V395I, D405V, E406Q, R408I, Q409E, Q414R, Q414A, Q414E, K417N, K417T, A435S, W436R, N439K, N440K, K444R, V445F, G446V, G446S, L452R, L452Q, Y453F, F456L, F456E, K458R, K458Q, E471Q, I472V, G476S, S477R, S477I, S477N, T478I, P479S, N481D, G482S, V483A, V483I, E484K, E484Q, G485S, F486S, F490S, S494P, P499R, N501Y, V503F, Y505C, Y508H, A520V, A520S, P521S, P521R, A522V, A522S, D614G, H655Y, G669S, Q677H, P681H, P681R, R683A, R685A, A701V, F817P, A892P, A899P, A942P, Q949R, K986P, V987P, D1118H, V1176F, N1187D

None of the listed mutations shows an impact on the sensitivity and specificity of the virellaSARS-CoV-2 seqc real time RT-PCR, the respiraScreen 1 real time RT-PCR, the respiraScreenSC2-FluA/B seqc real time RT-PCR, the respiraScreen 2 real time RT-PCR, the respiraScreen 2 LC real time RT-PCR, the respiraSC2 multi gene real time RT-PCR or the virellaSARS-CoV-2 4G seqc real time RT-PCR.

Kornwestheim, 21/06/2021

gerbion GmbH & Co. KG