Product Data Sheet

Product: PepStar SARS-CoV-2 Spike Glycoprotein Mutations

Product code: RT-SARSD-SMUTOS-1

Source: SARS-CoV-2 (Severe Acute Respiratory Syndrome-Related Coronavirus 2)
Coverage of variants, including mutations of variants of concern (VoC) or variants of interest (VoI) Alpha, Gamma, Eta, Zeta, Delta 417 and Omicron.
Scan of the immunogenic regions of Spike glycoprotein which draw antibody binding of vaccinipping 15mer peptide in patients with COVID-19 or vaccinated subjects after vaccination with vector-based vaccines (e.g. Vaxzevria™ (AstraZeneca)) or mRNA based vaccines (e.g. Comirnaty® (BioNTech/Pfizer)). 238 mutations which occur in more than 15 sequenced samples of SARS-CoV-2 infected subjects in these regions are covered by this library (data from GISAID.org, Dec. 2021). Each mutation is covered by a 15mer peptide with the respective mutated residue in the central position (Xx8) of the peptide and the respective wildtype peptide. If frequent mutations are observed in neighbouring residues, these are also covered.

Protein ID: P0DTC2 (wild type sequence)

No. of peptides: 696 peptides (One Peptide per mutation and respective wild type peptide, no static overlap.)

Length: aa

Sequence:

Mutations covered: T 19:K; 315 49Q; 315A9 Ly 5T9A9Q; 3251Q5; T
19:K; 315 49Q; 315A9 Ly 5T9A9Q; 3251Q5; T 19:K; 315 49Q; 315A9
Ly 5T9A9Q; 3251Q5; T 19:K; 315 49Q; 315A9 Ly 5T9A9Q; 3251Q5;