

Product Data Sheet

Product	RepliTope™ Antigen Collection Pan-Coronavirus
Product Code	RT-HD-CoV2
Description	4416 peptides spanning the full proteome of Severe Acute Respiratory Syndrome-related coronavirus 2 (SARS-CoV-2) & spike glycoprotein, nucleoprotein, envelope small membrane protein and membrane protein of coronaviruses Human SARS coronavirus (SARS-CoV), Middle East respiratory syndrome-related coronavirus (MERS), and common cold coronaviruses Human coronavirus 229E and OC43. Each protein is represented as an overlapping peptide scan with 15mers and 11 amino acids overlap.
No. of Peptides	4416 peptides (peptide scan 15/11)

Source:

ID	Peptides	Protein	Organism
NCAP_CVH22	95	Nucleoprotein	229E
SPIKE_CVH22	291	Spike glycoprotein	229E
VEMP_CVH22	17	Envelope small membrane protein	229E
VME1_CVH22	54	Membrane protein	229E
NCAP_CVHOC	110	Nucleoprotein	OC43
SPIKE_CVHOC	336	Spike glycoprotein	OC43
VEMP_CVHOC	19	Envelope small membrane protein	OC43
VME1_CVHOC	55	Membrane protein	OC43
NCAP_CVHSA	103	Nucleoprotein	SARS-CoV
SPIKE_CVHSA	311	Spike glycoprotein	SARS-CoV
VEMP_CVHSA	17	Envelope small membrane protein	SARS-CoV
VME1_CVHSA	53	Membrane protein	SARS-CoV
NCAP_CVEMC	100	Nucleoprotein	MERS
SPIKE_CVEMC	336	Spike glycoprotein	MERS
VEMP_CVEMC	18	Envelope small membrane protein	MERS
VME1_CVEMC	52	Membrane protein	MERS
A0A663DJA2_9BETC	7	ORF10 protein	SARS-CoV-2
AP3A_WCPV	66	Protein 3a	SARS-CoV-2
NCAP_WCPV	102	Nucleoprotein	SARS-CoV-2
NS6_WCPV	13	Non-structural protein 6	SARS-CoV-2
NS7A_WCPV	28	Protein 7a	SARS-CoV-2
NS7B_WCPV	8	Protein non-structural 7b	SARS-CoV-2
NS8_WCPV	28	Non-structural protein 8	SARS-CoV-2
ORF9B_WCPV	22	Protein 9b	SARS-CoV-2
R1A_WCPV	1099	Replicase polyprotein 1a	SARS-CoV-2
R1AB_WCPV	1772	Replicase polyprotein 1ab	SARS-CoV-2
SPIKE_WCPV	316	Spike glycoprotein	SARS-CoV-2
VEMP_WCPV	16	Envelope small membrane protein	SARS-CoV-2
VME1_WCPV	53	Membrane protein	SARS-CoV-2
Y14_WCPV	16	Uncharacterized protein 14	SARS-CoV-2

Specification

Microarray glass slide, 1" x 3" (2.5 x 7.5cm)

Layout

Peptides are printed in three individual subarrays. An exemplary view is shown below. For layout details please refer to .gal-file enclosed to shipment

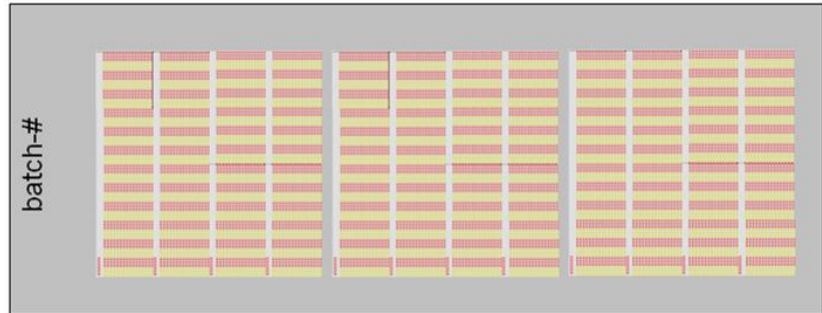


Figure 1: schematic view of peptide microarray (3 subarrays)

Storage conditions

Store refrigerated at +4°C