

## SUPPLEMENTARY MATERIAL

yang J, Liu D, Xu X, Meiri N, Yang D. Peptide probe-based nanoLC-MS/MS PRM for ultrasensitive detection of SARS-CoV-2 proteins in environmental samples. *Infect Dis Clin Microbiol.* 2026;8(2):165–78.

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**Table S1.** Candidate peptide sequences.

Candidate peptides for S1 protein	Candidate peptides for N protein
ISNCVADYSVLYNSASFSTFK	RGPEQTQGNFGDQELIR
VNSAAFPAPIEK	QQTVTLLPAADLDDFSK
DSGCKPCICTVPEVSSVFIFPPKPK	DGIIWVATEGALNTPK
APQVYTIPPPKEQMAK	KQQTVTLPAADLDDFSK
GRPKAPQVYTIPPPKEQMAK	GQGVPIINTSSPDDQIGYYR
APQVYTIPPPKEQMAKDK	AYNVTQAFGR
CVNFADDDDKAVPR	RPQGLPNNTASWFTALTQH GK
VVLSFELLHAPATVCGPK	IGMEVTPSGTWLTYTGAIK
NKCVNFADDDDKAVPR	LDDKDPNFK
GRPKAPQVYTIPPPKEQMAK	ADETQALPQR
VGGNYNYLYR	KADETQALPQR
VNSAAFPAPIEKTISKTK	LDDKDPNFKDQVILLNK
VNSAAFPAPIEKTISK	IGMEVTPSGTWLTYTGAIK
KRISNCVADYSVLYNSASFSTFK	HIDAYKTFPPTEPK
APQVYTIPPPKEQMAK	HWPQIAQFAPSASAFFGMSR
CVNFADDDDKAVPRDSGCKPCICTVPEVSSVFIFPPKPK	MSGKGQQQQGQTVTKK
DSGCKPCICTVPEVSSVFIFPPKPKDVLITLTPK	KKADETQALPQR
GRPKAPQVYTIPPPK	LNQLESK
CRVNSAAFPAPIEKTISK	GFYAEGSRGGSQASSR
SNWEAGNTFTCSVLHEGLHNHHTEK	ITFGGSDSTGSNQNGER
LNQKSNWEAGNTFTCSVLHEGLHNHHTEK	DHIGTRNPANNAIVLQLPQGTTLPK
SVSELPIMHQDWLNGKEFK	HWPQIAQFAPSASAFFGMSR
DVLITLTPK	QGTDYKHWPQIAQFAPSASAFFGMSR
RISNCVADYSVLYNSASFSTFK	NSTPGSSR
VVLSFELLHAPATVCGPKK	GQQQQGQTVTK
CYGVSPKLNLDLCTNVYADSFVIRGDEV R	NSSRNSTPGSSRGTSPAR
LNDLCTNVYADSFVIRGDEV R	MSGKGQQQQGQTVTK
KSTNLVK	MSDNQPQNQR
SNLKPFER	ADETQALPQRQKK

**Table S1.** Candidate peptide sequences. (Con.)

Candidate peptides for S1 protein	Candidate peptides for N protein
APQVYTIPPPKEQMAKDK	ADETQALPQRQK
CRVNSAAFPAPIEK	LNQLESKMSGK
APQVYTIPPPK	RTATKAYNVTQAFGR
NTQPIMDTDGSYFVYSK	TATKAYNVTQAFGR
SVSELPIMHQDWLNGKEFKCR	GQGVPIINTSSPDDQIGYRR
NTQPIMDTDGSYFVYSK	DQVILLNKHIDAYK
NTQPIMDTDGSYFVYSKLNQK	DPNFKDQVILLNK
VGGNYNYLYRLFR	NPANNAIVLQLPQGTTLPKGFYAEGSR
KSTNLVKNK	DGIIVVATEGALNTPKDHIGTR
STNLVKNK	QQTVTLLPAADLDDFSKQLQQSMSSADSTQA
CYGVSPK	KQQTVTLLPAADLDDFSKQLQQSMSSADSTQA
GDEVQRQIAPGQTGK	RPQGLPNNTASWFTALTQHGEDLK
KSNLKPFR	
TKGRPKAPQVYTIPPPK	
CVNFADDDDK	
LFKSNLKPFR	
FASVYAWNRKR	
EEQFNSTFR	
FASVYAWNRK	
VTCVVVDSK	
SVSELPIMHQDWLNGKEFKCR	
VGGNYNYLYRLFRK	
VVLSFELLHAPATVCGPKKSTNLVK	
RISNCVADYSVLYNSASFSTFKCYGVSPK	
SVSELPIMHQDWLNGK	
ISNCVADYSVLYNSASFSTFKCYGVSPK	
LNDLCFTNVYADSFVIRGDEVQRQIAPGQTGK	
LNDLCFTNVYADSFVIR	

**S1:** Spike subunit 1 protein, **N:** Nucleocapsid protein.