

Peptide Array, SARS-Related Coronavirus 2 Nucleocapsid (N) Protein

Catalog No. NR-52404

This reagent is the tangible property of the U.S. Government.

Product Description:

The 59-peptide array spans the nucleocapsid (N) protein of the USA-WA1/2020 strain of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2; GenPept: [QHO60601](#)). Peptides are 17- or 13-mers, with 10 amino acid overlaps.

Lot: A4077-1 to A4077-59

Manufacturing Date: 31MAR2020

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Correct MW by MALDI
- Counter Ion Trifluoroacetate

Peptide-specific information is shown in the tables and figures below.

Table 1: Peptide Analysis

Peptide	Length	Sequence	Molecular Weight (amu)	Hydrophobicity	Purity by HPLC ¹	Peptide Content ²
1 of 59	17	1-MSDNGPQNQRNAPRITF-17	1946.14	23.53	90.07%	83.2%
2 of 59	17	8-NQRNAPRITFGGSDST-24	1817.94	17.65	81.03%	82.2%
3 of 59	17	15-ITFGGSDSTGSNQNGE-31	1667.67	11.76	94.74%	92.7%
4 of 59	17	22-DSTGSNQNGERSGARSK-38	1750.77	5.88	96.90%	77.0%
5 of 59	17	29-NGERSGARSKQRRPQGL-45	1897.10	11.76	88.94%	70.7%
6 of 59	17	36-RSKQRRPQGLPNNTASW-52	1996.23	17.65	85.56%	75.3%
7 of 59	17	43-QGLPNNTASWFTALTQH-59	1886.06	35.29	85.77%	87.8%
8 of 59	17	50-ASWFTALTQHGKEDLKF-66	1979.23	41.18	86.49%	79.1%
9 of 59	17	57-TQHGKEDLKFPRGQGV-73	1894.13	17.65	86.52%	74.3%
10 of 59	17	64-LKFPRGQGVPIINTNSSP-80	1812.07	23.53	80.05%	82.2%
11 of 59	17	71-GVPINTNSSPDDQIGYY-87	1839.93	29.41	85.92%	93.4%
12 of 59	17	78-SSPDDQIGYYRRATRR-94	2054.25	29.41	83.13%	75.8%
13 of 59	17	85-GYYRRATRRIRGGDGKM-101	2013.31	29.41	88.14%	68.7%
14 of 59	17	92-RRIRGGDGKMKDLSRW-108	2028.38	23.53	81.28%	68.9%
15 of 59	17	99-GKMKDLSRWYFYLLGT-115	2125.47	47.06	81.87%	80.2%
16 of 59	17	106-PRWYFYLLGTGPEAGLP-122	1987.24	47.06	88.65%	88.3%
17 of 59	17	113-LGTGPEAGLPYGANKDG-129	1616.75	29.41	89.10%	86.1%
18 of 59	17	120-GLPYGANKDGIWVATE-136	1804.04	47.06	96.45%	87.3%
19 of 59	17	127-KDGIWVATEGALNTPK-143	1813.09	41.18	88.78%	82.2%
20 of 59	17	134-ATEGALNTPKDHIGTRN-150	1794.95	23.53	89.99%	77.4%
21 of 59	17	141-TPKDHIGTRNPANNAI-157	1789.98	29.41	82.33%	77.3%
22 of 59	17	148-TRNPANNAIIVLQLPQG-164	1777.02	41.18	87.59%	87.2%
23 of 59	17	155-AAIVLQLPQGTTLPKGF-171	1754.11	47.06	80.78%	87.0%
24 of 59	17	162-PQGTTLPKGFYAEGSRG-178	1765.95	23.53	80.37%	81.8%
25 of 59	17	169-KGFYAEGSRGGSQASSR-185	1744.84	23.53	80.97%	76.9%
26 of 59	17	176-SRGGSQASSRSSRSRN-192	1766.81	5.88	81.43%	72.9%
27 of 59	17	183-SSRSSRSRNSSRNSTP-199	1852.90	0.00	83.14%	73.9%

Table 1: Peptide Analysis (continued)

Peptide	Length	Sequence	Molecular Weight (amu)	Hydrophobicity	Purity by HPLC ¹	Peptide Content ²
28 of 59	17	190-SRNSSRNSTPGSSRGTS-206	1737.77	0.00	83.88%	76.8%
29 of 59	17	197-STPGSSRGTS-213	1633.77	17.65	83.52%	80.6%
30 of 59	17	204-GTSPARMAGNGGDAALA-220	1516.66	41.18	84.97%	85.3%
31 of 59	17	211-AGNGGDAALALLLDRL-227	1652.92	58.82	91.40%	86.3%
32 of 59	17	218-ALALLLDRLNQLLESKM-234	1941.38	58.82	94.23%	83.2%
33 of 59	17	225-DRLNQLLESKMSGKQQQ-241	1947.17	17.65	90.66%	78.8%
34 of 59	17	232-SKMSGKQQQQGQTVTK-248	1821.05	11.76	90.88%	77.6%
35 of 59	17	239-QQQGQTVTKKSAEAS-255	1789.93	23.53	91.62%	82.0%
36 of 59	17	246-VTKKSAEASKKPRQKR-262	1913.26	23.53	80.98%	64.6%
37 of 59	17	253-EASKKPRQKRTATKAYN-269	1977.26	23.53	88.38%	68.3%
38 of 59	17	260-QKRTATKAYNVTQAFGR-276	1940.19	35.29	91.50%	74.7%
39 of 59	17	267-AYNVTQAFRRGPEQTQ-283	1923.08	29.41	92.53%	83.1%
40 of 59	17	274-FGRRGPEQTQGNFGDQE-290	1923.00	11.76	80.32%	83.1%
41 of 59	17	281-QTQGNFGDQELIRQGT-297	1906.99	17.65	82.27%	88.0%
42 of 59	17	288-DQELIRQGTQDYKHWPQI-304	2127.35	29.41	90.23%	80.3%
43 of 59	17	295-GTDYKHWPQIAQFAPSA-311	1917.11	41.18	87.51%	83.0%
44 of 59	17	302-PQIAQFAPSASAFFGMS-318	1757.01	52.94	89.29%	93.0%
45 of 59	17	309-PSASAFFGMSRIGMEVT-325	1788.09	47.06	80.16%	87.2%
46 of 59	17	316-GMSRIGMEVTPSGTWLT-332	1823.13	35.29	80.41%	87.4%
47 of 59	17	323-EVTPSGTWLTYTGAIKL-339	1837.10	41.18	81.26%	87.5%
48 of 59	17	330-WLTYTGAIKLDDKDPNF-346	1997.24	41.18	88.29%	83.5%
49 of 59	17	337-IKLDKDPNFKDQVILL-353	2014.36	41.18	91.19%	79.4%
50 of 59	17	344-PNFKDQVILLNKHIDAY-360	2028.34	47.06	82.17%	79.5%
51 of 59	17	351-ILLNKHIDAYKTFPTE-367	2000.33	41.18	91.50%	79.2%
52 of 59	17	358-DAYKTFPTEPKDKKK-374	2021.35	17.65	92.75%	68.8%
53 of 59	17	365-PTEPKDKKKKADETQA-381	1942.21	11.76	90.81%	67.9%
54 of 59	17	372-KKKKADETQALPQRQKK-388	2025.39	17.65	93.71%	65.9%
55 of 59	17	379-TQALPQRQKKQQTVTL-395	1981.34	29.41	84.49%	79.1%
56 of 59	17	386-QKKQQTVTLPAADLDD-402	1884.13	35.29	86.74%	82.7%
57 of 59	17	393-TLLPAADLDDFSKQLQQ-409	1903.13	41.18	95.19%	87.9%
58 of 59	17	400-LDDFSKQLQQSMSSADS-416	1887.02	29.41	80.36%	87.8%
59 of 59	13	407-LQQSMSSADSTQA-419	1353.44	30.77	95.40%	91.2%

¹Percent full length

²Remainder is salt and water

Figure 1: Amino Acid Analysis^{3,4}

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
1 of 59	Expected	1.0	2.0	4.0		2.0	1.0		1.0			1.0	1.0	2.0	1.0	1.0			
	Actual	1.1	2.0	4.0		2.0	1.1		1.1			1.0	1.0	2.2	0.8	0.9			
2 of 59	Expected	1.0	2.0	3.0		1.0	2.0		1.0				1.0	2.0	2.0	2.0			
	Actual	1.0	1.8	3.1		0.9	2.1		1.0				1.1	2.1	2.0	2.0			
3 of 59	Expected			3.0		2.0	4.0		1.0				1.0	1.0	3.0	2.0			
	Actual			2.9		1.9	3.8		1.1				1.1	1.0	2.8	1.9			
4 of 59	Expected	1.0	2.0	3.0		2.0	3.0				1.0				4.0	1.0			
	Actual	1.0	2.1	3.0		1.9	2.9				1.1				4.1	0.9			
5 of 59	Expected	1.0	4.0	1.0		3.0	3.0			1.0	1.0			1.0	2.0				
	Actual	1.0	3.9	1.0		2.9	3.0			1.1	1.0			1.1	1.8				

Figure 1 - Amino Acid Analysis (continued)^{3,4}

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
6 of 59	Expected	1.0	3.0	2.0		2.0	1.0			1.0	1.0			2.0	2.0	1.0	1.0		
	Actual	1.1	2.8	2.1		1.8	1.1			1.1	1.0			2.1	1.9	0.9	0.0		
7 of 59	Expected	2.0		2.0		2.0	1.0	1.0		2.0			1.0	1.0	1.0	3.0	1.0		
	Actual	2.0		1.9		1.8	1.0	1.1		2.0			1.1	1.0	0.9	3.1	0.0		
8 of 59	Expected	2.0		1.0		2.0	1.0	1.0		2.0	2.0		2.0		1.0	2.0	1.0		
	Actual	2.0		1.1		1.9	1.1	1.0		2.2	2.0		2.0		0.8	1.9	0.0		
9 of 59	Expected		1.0	1.0		3.0	3.0	1.0		1.0	2.0		1.0	2.0		1.0			1.0
	Actual		0.9	1.1		3.0	3.0	1.0		1.0	2.0		1.0	2.1		0.9			1.1
10 of 59	Expected		1.0	2.0		1.0	2.0		1.0	1.0	1.0		1.0	3.0	2.0	1.0			1.0
	Actual		1.0	2.0		1.0	2.1		1.0	1.0	1.0		1.0	3.0	2.0	1.0			1.0
11 of 59	Expected			4.0		1.0	2.0		2.0					2.0	2.0	1.0		2.0	1.0
	Actual			4.0		0.9	2.1		2.1					2.2	1.9	0.9		2.2	1.0
12 of 59	Expected	1.0	4.0	2.0		1.0	1.0		2.0					1.0	2.0	1.0		2.0	
	Actual	1.1	4.0	1.9		0.9	1.1		2.1					1.0	1.9	1.0		2.1	
13 of 59	Expected	1.0	5.0	1.0			4.0		1.0		1.0	1.0				1.0		2.0	
	Actual	1.2	4.9	1.1			4.1		0.9		1.0	0.8				1.0		2.1	
14 of 59	Expected		4.0	2.0			3.0		1.0	1.0	2.0	1.0		1.0	1.0		1.0		
	Actual		4.1	2.1			3.0		0.9	1.1	2.1	0.9		1.1	0.9		0.0		
15 of 59	Expected		1.0	1.0			2.0			2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	
	Actual		1.1	1.0			2.0			2.0	1.9	0.9	1.1	1.1	0.9	1.0	0.0	3.0	
16 of 59	Expected	1.0	1.0			1.0	3.0			2.0			1.0	3.0		1.0	1.0	3.0	
	Actual	1.0	0.9			0.9	3.1			2.1			1.0	3.2		0.9	0.0	3.1	
17 of 59	Expected	2.0		2.0		1.0	5.0			2.0	1.0			2.0		1.0		1.0	
	Actual	1.9		2.3		1.1	4.8			2.2	1.0			1.8		1.0		0.9	
18 of 59	Expected	2.0		2.0		1.0	3.0		2.0	1.0	1.0			1.0		1.0	1.0	1.0	1.0
	Actual	2.0		2.0		1.0	3.0		0.8	0.9	1.1			1.0		1.0	0.0	1.0	1.0
19 of 59	Expected	2.0		2.0		1.0	2.0		2.0	1.0	2.0			1.0		2.0	1.0		1.0
	Actual	2.0		2.0		1.0	2.0		0.9	1.1	1.9			1.0		1.9	0.0		1.1
20 of 59	Expected	2.0	1.0	3.0		1.0	2.0	1.0	1.0	1.0	1.0			1.0		3.0			
	Actual	1.9	1.0	3.1		0.9	2.1	1.0	1.0	1.1	1.1			1.0		2.9			
21 of 59	Expected	3.0	1.0	4.0			1.0	1.0	2.0		1.0			2.0		2.0			
	Actual	3.1	1.1	3.9			1.0	1.0	2.0		1.0			2.0		1.8			
22 of 59	Expected	3.0	1.0	3.0		2.0	1.0		1.0	2.0				2.0		1.0			1.0
	Actual	2.8	1.1	2.8		2.1	1.0		0.5	2.1				1.9		1.0			0.6
23 of 59	Expected	2.0				2.0	2.0		1.0	3.0	1.0		1.0	2.0		2.0			1.0
	Actual	1.9				2.0	2.0		0.6	3.1	1.0		1.0	2.1		1.8			0.7
24 of 59	Expected	1.0	1.0			2.0	4.0			1.0	1.0		1.0	2.0	1.0	2.0		1.0	
	Actual	1.0	1.0			2.1	4.1			1.0	0.9		1.2	2.0	0.9	1.9		1.0	
25 of 59	Expected	2.0	2.0			2.0	4.0				1.0		1.0		4.0			1.0	
	Actual	2.0	2.0			1.9	4.2				0.9		1.1		3.9			1.1	
26 of 59	Expected	1.0	4.0	1.0		1.0	2.0								8.0				
	Actual	1.0	3.9	1.2		1.0	1.8								7.7				
27 of 59	Expected		4.0	2.0										1.0	9.0	1.0			
	Actual		3.9	2.0										1.0	8.7	1.1			
28 of 59	Expected		3.0	2.0			2.0							1.0	7.0	2.0			
	Actual		2.9	1.8			2.2							1.0	6.7	2.0			
29 of 59	Expected	2.0	2.0	1.0			3.0				1.0			2.0	4.0	2.0			
	Actual	2.2	1.9	1.0			3.0				1.0			2.1	3.8	1.9			
30 of 59	Expected	5.0	1.0	2.0			4.0			1.0		1.0		1.0	1.0	1.0			
	Actual	5.1	1.1	2.0			4.1			1.0		0.9		1.1	1.0	0.9			
31 of 59	Expected	4.0	1.0	3.0			3.0			6.0									
	Actual	3.8	1.1	2.9			3.1			6.1									
32 of 59	Expected	2.0	1.0	2.0		2.0				7.0	1.0	1.0			1.0				
	Actual	2.1	1.0	2.1		2.0				7.1	1.0	1.0			0.9				
33 of 59	Expected		1.0	2.0		5.0	2.0			2.0	2.0	1.0			2.0				
	Actual		0.9	2.0		5.0	2.2			2.1	2.1	1.0			1.9				
34 of 59	Expected					5.0	3.0				3.0	1.0			2.0	2.0			1.0
	Actual					4.9	2.9				2.9	1.1			2.0	1.8			1.1
35 of 59	Expected	3.0				6.0	1.0				2.0				2.0	2.0			1.0
	Actual	3.1				5.8	1.1				1.9				1.9	1.9			1.1
36 of 59	Expected	3.0	2.0			2.0					5.0			1.0	2.0	1.0			1.0
	Actual	3.1	2.1			2.1					4.8			1.1	1.8	1.0			1.0

Figure 1 - Amino Acid Analysis (continued)^{3,4}

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)
37 of 59	Expected	3.0	2.0	1.0		2.0					4.0			1.0	1.0	2.0			1.0
	Actual	3.1	2.0	1.1		1.8					3.8			1.1	0.8	1.9			1.1
38 of 59	Expected	3.0	2.0	1.0		2.0	1.0				2.0		1.0			3.0			1.0
	Actual	3.1	1.8	1.0		1.8	1.1				2.0		1.1			2.9			1.0
39 of 59	Expected	2.0	2.0	1.0		4.0	2.0						1.0	1.0		2.0			1.0
	Actual	2.0	1.9	1.0		3.8	2.2						1.1	1.1		1.8			0.9
40 of 59	Expected		2.0	2.0		5.0	4.0						2.0	1.0		1.0			
	Actual		1.8	2.2		5.2	4.0						1.9	1.0		1.0			
41 of 59	Expected		1.0	3.0		5.0	3.0		1.0	1.0			1.0			2.0			
	Actual		0.9	3.2		4.8	3.2		0.9	1.1			1.1			1.8			
42 of 59	Expected		1.0	2.0		4.0	1.0	1.0	2.0	1.0	1.0			1.0		1.0	1.0	1.0	
	Actual		0.8	2.1		3.8	1.1	1.1	1.9	1.0	1.1			1.1		0.9	0.0	1.1	
43 of 59	Expected	3.0		1.0		2.0	1.0	1.0	1.0				1.0	2.0	1.0	1.0	1.0	1.0	
	Actual	2.8		1.0		2.0	1.0	0.9	1.0				1.0	1.9	1.0	1.2	0.0	1.0	
44 of 59	Expected	4.0				2.0	1.0		1.0			1.0	3.0	2.0	3.0				
	Actual	4.0				1.8	1.1		1.0			1.0	3.2	2.0	2.7				
45 of 59	Expected	2.0	1.0			1.0	2.0		1.0			2.0	2.0	1.0	3.0	1.0			1.0
	Actual	2.0	1.0			0.9	2.2		1.1			1.8	2.2	1.1	2.7	1.0			0.9
46 of 59	Expected		1.0			1.0	3.0		1.0	1.0		2.0		1.0	2.0	3.0	1.0		1.0
	Actual		0.9			1.0	2.9		1.1	1.1		2.1		1.0	1.8	3.1	0.0		0.9
47 of 59	Expected	1.0				1.0	2.0		1.0	2.0	1.0			1.0	1.0	4.0	1.0	1.0	1.0
	Actual	1.1				0.9	2.1		1.0	2.1	1.1			1.0	0.9	3.8	0.0	0.9	1.2
48 of 59	Expected	1.0		4.0			1.0		1.0	2.0	2.0		1.0	1.0		2.0	1.0	1.0	
	Actual	1.0		3.7			1.1		0.9	2.0	1.8		1.1	1.0		1.9	0.0	1.1	
49 of 59	Expected			5.0		1.0			2.0	3.0	3.0		1.0	1.0					1.0
	Actual			4.9		1.0			1.2	3.1	3.2		0.9	1.0					0.5
50 of 59	Expected	1.0		4.0		1.0		1.0	2.0	2.0	2.0		1.0	1.0				1.0	1.0
	Actual	1.0		4.2		1.1		0.9	1.5	2.1	2.1		1.0	1.0				0.9	0.6
51 of 59	Expected	1.0		2.0		1.0		1.0	2.0	2.0	2.0		1.0	2.0		2.0		1.0	
	Actual	1.0		2.0		1.0		1.0	2.0	2.0	2.1		1.0	2.1		2.1		0.9	
52 of 59	Expected	1.0		2.0		1.0					6.0		1.0	3.0		2.0		1.0	
	Actual	1.0		2.0		1.0					6.0		1.1	3.2		1.9		1.0	
53 of 59	Expected	2.0		2.0		3.0					6.0			2.0		2.0			
	Actual	2.0		2.1		2.9					6.0			2.2		1.8			
54 of 59	Expected	2.0	1.0	1.0		4.0				1.0	6.0			1.0		1.0			
	Actual	2.0	1.0	1.0		3.8				1.1	5.7			1.1		0.9			
55 of 59	Expected	1.0	1.0			5.0				3.0	2.0			1.0		3.0			1.0
	Actual	1.0	0.9			4.8				3.2	2.0			1.0		2.8			1.1
56 of 59	Expected	2.0		3.0		3.0				3.0	2.0			1.0		2.0			1.0
	Actual	2.0		3.2		2.8				3.2	1.8			1.1		1.8			1.1
57 of 59	Expected	2.0		3.0		3.0				4.0	1.0		1.0	1.0	1.0	1.0			
	Actual	2.1		3.1		3.1				4.2	1.0		1.1	1.0	0.8	0.9			
58 of 59	Expected	1.0		3.0		3.0				2.0	1.0	1.0	1.0		5.0				
	Actual	1.1		3.0		2.8				2.1	1.1	1.0	0.9		4.7				
59 of 59	Expected	2.0		1.0		3.0				1.0		1.0			4.0	1.0			
	Actual	2.1		1.0		3.0				1.0		0.9			3.9	1.0			

³Tryptophan (W) was completely destroyed during hydrolysis.

⁴Val-Ile, Val-Val, Ile-Ile and/or Ile-Val bonds were only partially destroyed during hydrolysis.

Table 2: Peptide Solubility

Peptide	Sequence	Solubility	Solvent
1 of 59	1-MSDNGPQNQRNAPRITF-17	1 mg/mL	70% acetonitrile in water
2 of 59	8-NQRNAPRITFGGSPDST-24	1 mg/mL	70% acetonitrile in water
3 of 59	15-ITFGGSPDSTGSNQNGE-31	1 mg/mL	70% acetonitrile in water
4 of 59	22-DSTGSNQNGERSGARSK-38	1 mg/mL	70% acetonitrile in water
5 of 59	29-NGERSGARSKQRRPQGL-45	1 mg/mL	70% acetonitrile in water
6 of 59	36-RSKQRRPQGLPNNTASW-52	1 mg/mL	70% acetonitrile in water

Table 2: Peptide Solubility (continued)

Peptide	Sequence	Solubility	Solvent
7 of 59	43-QGLPNNTASWFTALTQH-59	1 mg/mL	70% acetonitrile in water
8 of 59	50-ASWFTALTQHGKEDLKF-66	1 mg/mL	70% acetonitrile in water
9 of 59	57-TQHGKEDLKFRGQGV-73	1 mg/mL	70% acetonitrile in water
10 of 59	64-LKFPRGQGVPIINTNSSP-80	1 mg/mL	70% acetonitrile in water
11 of 59	71-GVPINTNSSPDDQIGYY-87	1 mg/mL	70% acetonitrile in water
12 of 59	78-SSPDDQIGYYRRATRR-94	1 mg/mL	70% acetonitrile in water
13 of 59	85-GYYRRATRRIRGGDGKM-101	1 mg/mL	70% acetonitrile in water
14 of 59	92-RRIRGGDGKMKDLSPRW-108	1 mg/mL	70% acetonitrile in water
15 of 59	99-GKMKDLSPRWYFYLLGT-115	1 mg/mL	70% acetonitrile in water
16 of 59	106-PRWYFYLLGTGPEAGLP-122	1 mg/mL	70% acetonitrile in water
17 of 59	113-LGTGPEAGLPYGANKDG-129	1 mg/mL	70% acetonitrile in water
18 of 59	120-GLPYGANKDGIWVATE-136	1 mg/mL	70% acetonitrile in water
19 of 59	127-KDGIWVATEGALNTPK-143	1 mg/mL	70% acetonitrile in water
20 of 59	134-ATEGALNTPKDHIHTRN-150	1 mg/mL	70% acetonitrile in water
21 of 59	141-TPKDHIGTRNPANNAI-157	1 mg/mL	70% acetonitrile in water
22 of 59	148-TRNPANNAIIVLQLPQG-164	1 mg/mL	70% acetonitrile in water
23 of 59	155-AAIVLQLPQGTTLPKGF-171	1 mg/mL	70% acetonitrile in water
24 of 59	162-PQGTTLPKGFYAEGSRG-178	1 mg/mL	70% acetonitrile in water
25 of 59	169-KGFYAEGSRGGSQASSR-185	1 mg/mL	70% acetonitrile in water
26 of 59	176-SRGGSQASSRSSSRN-192	1 mg/mL	70% acetonitrile in water
27 of 59	183-SSRSSSRNSSRNSTP-199	1 mg/mL	70% acetonitrile in water
28 of 59	190-SRNSSRNSTPGSSRGTS-206	1 mg/mL	70% acetonitrile in water
29 of 59	197-STPGSSRGTS-213	1 mg/mL	70% acetonitrile in water
30 of 59	204-GTSPARMAGNGGDAALA-220	1 mg/mL	70% acetonitrile in water
31 of 59	211-AGNGGDAALALLLDRL-227	1 mg/mL	70% acetonitrile in water
32 of 59	218-ALALLLDRLNQLESKM-234	1 mg/mL	70% acetonitrile in water
33 of 59	225-DRLNQLESKMSGKQQQ-241	1 mg/mL	70% acetonitrile in water
34 of 59	232-SKMSGKQQQQQVTK-248	1 mg/mL	70% acetonitrile in water
35 of 59	239-QQQQQQVTKKSAEAS-255	1 mg/mL	70% acetonitrile in water
36 of 59	246-VTKKSAEASKKPRQKR-262	1 mg/mL	70% acetonitrile in water
37 of 59	253-EASKKPRQKRTATKAYN-269	1 mg/mL	70% acetonitrile in water
38 of 59	260-QKRTATKAYNVTQAFGR-276	1 mg/mL	70% acetonitrile in water
39 of 59	267-AYNVTQAFGRRGPEQTQ-283	1 mg/mL	70% acetonitrile in water
40 of 59	274-FGRRGPEQTQGNFGDQE-290	1 mg/mL	70% acetonitrile in water
41 of 59	281-QTQGNFGDQELIRQGT-297	1 mg/mL	70% acetonitrile in water
42 of 59	288-DQELIRQGTQYKHWPQI-304	1 mg/mL	70% acetonitrile in water
43 of 59	295-GTDYKHWPQIAQFAPSA-311	1 mg/mL	70% acetonitrile in water
44 of 59	302-PQIAQFAPSASAFFGMS-318	1 mg/mL	70% acetonitrile in water
45 of 59	309-PSASAFFGMSRIGMEVT-325	1 mg/mL	70% acetonitrile in water

Table 2: Peptide Solubility (continued)

Peptide	Sequence	Solubility	Solvent
46 of 59	316-GMSRIGMEVTPSGTWLT-332	1 mg/mL	70% acetonitrile in water
47 of 59	323-EVTPSGTWLTYTGAIKL-339	1 mg/mL	70% acetonitrile in water
48 of 59	330-WLTYTGAIKLDDKDPNF-346	1 mg/mL	70% acetonitrile in water
49 of 59	337-IKLDDKDPNFKDQVILL-353	1 mg/mL	70% acetonitrile in water
50 of 59	344-PNFKDQVILLNKHIDAY-360	1 mg/mL	70% acetonitrile in water
51 of 59	351-ILLNKHIDAYKTFPTE-367	1 mg/mL	70% acetonitrile in water
52 of 59	358-DAYKTFPTEPKKDKKK-374	1 mg/mL	70% acetonitrile in water
53 of 59	365-PTEPKKDKKKKADETQA-381	1 mg/mL	70% acetonitrile in water
54 of 59	372-KKKKADETQALPQRQKK-388	1 mg/mL	70% acetonitrile in water
55 of 59	379-TQALPQRQKKQTVTLL-395	1 mg/mL	70% acetonitrile in water
56 of 59	386-QKKQQTVLLPAADLDD-402	1 mg/mL	70% acetonitrile in water
57 of 59	393-TLLPAADLDDFSKQLQQ-409	1 mg/mL	70% acetonitrile in water
58 of 59	400-LDDFSKQLQQSMSSADS-416	1 mg/mL	70% acetonitrile in water
59 of 59	407-LQQSMSSADSTQA-419	1 mg/mL	70% acetonitrile in water

/Heather Couch/
Heather Couch

01 JUN 2020

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the vendor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.
You are authorized to use this product for research use only. It is not intended for human use.

