

Supplementary material

Supplementary Table 1. List of human rhinovirus C strains/isolates used for the study.

Sl. no	Strain name	Genbank Accession No.
1	Rhinovirus C	EF582385
2	Rhinovirus C	KJ675507
3	Rhinovirus C	KJ675506
4	Rhinovirus C	KJ675505
5	Rhinovirus C	KF958311
6	Rhinovirus C	JN815251
7	Rhinovirus C	JN815249
8	Rhinovirus C	JN798566
9	Rhinovirus C	JN205461
10	Rhinovirus C	KP890662
11	Rhinovirus C isolate NW6	MZ438010
12	Rhinovirus C strain BAL11A	MZ447875
13	Rhinovirus C strain HRV/NW9	MZ667421
14	Rhinovirus C strain NIV1722289	MH330336
15	Rhinovirus C strain SC0323	MN306023
16	Rhinovirus C strain SC0364	MN306026
17	Rhinovirus C strain SC0645	MN306035
18	Rhinovirus C strain SC261	KY369880
19	Rhinovirus C strain SC9795	KY369882
20	Rhinovirus C strain SC9810	MN369030
21	Rhinovirus C strain SC983	KY369879
22	Rhinovirus C strain SC9941	MN369033
23	Rhinovirus C strain SC9996	MN369031
24	Rhinovirus C1 strain RvC1/USA/2021/412768	MZ268720
25	Rhinovirus C1 strain RvC1/USA/2021/69719	MW969527
26	Rhinovirus C1 strain RvC1/USA/2021/82JMKJ	OK017918
27	Rhinovirus C1 strain RvC1/USA/2021/8HV75D	MZ322915
28	Rhinovirus C1 strain RvC1/USA/2021/8QSTY6	MZ268706
29	Rhinovirus C1 strain RvC1/USA/2021/8TWEKH	MZ670576
30	Rhinovirus C1 strain RvC1/USA/2021/KFXQUF	MZ363446
31	Rhinovirus C11 strain RvC11/USA/2021/045373	MZ268710
32	Rhinovirus C11 strain RvC11/USA/2021/045373	MZ268710
33	Rhinovirus C11 strain RvC11/USA/2021/162800	MZ268676
34	Rhinovirus C11 strain RvC11/USA/2021/163548	MZ268679
35	Rhinovirus C11 strain RvC11/USA/2021/256231	MZ268653
36	Rhinovirus C11 strain RvC11/USA/2021/278005-4	MZ153285
37	Rhinovirus C11 strain RvC11/USA/2021/2FWR4	MZ153255
38	Rhinovirus C11 strain RvC11/USA/2021/2TL76C	MZ268702
39	Rhinovirus C11 strain RvC11/USA/2021/303141	MZ268659
40	Rhinovirus C11 strain RvC11/USA/2021/323706-4	MZ153284
41	Rhinovirus C11 strain RvC11/USA/2021/367874-4	MZ153283
42	Rhinovirus C11 strain RvC11/USA/2021/372442	MZ363429
43	Rhinovirus C11 strain RvC11/USA/2021/372618-4	MZ221149
44	Rhinovirus C11 strain RvC11/USA/2021/397239	MZ363430
45	Rhinovirus C11 strain RvC11/USA/2021/398871	MZ268716
46	Rhinovirus C11 strain RvC11/USA/2021/3JSQVT	OK017910

Supplementary Table 1. Continued.

Sl. no	Strain name	Genbank Accession No.
47	Rhinovirus C11 strain RvC11/USA/2021/498C5V	MZ268707
48	Rhinovirus C11 strain RvC11/USA/2021/69768	MW969521
49	Rhinovirus C11 strain RvC11/USA/2021/69843	MW969518
50	Rhinovirus C11 strain RvC11/USA/2021/71514	MW969520
51	Rhinovirus C11 strain RvC11/USA/2021/8LKX6G	MZ363417
52	Rhinovirus C11 strain RvC11/USA/2021/CPESTRU	OK017927
53	Rhinovirus C11 strain RvC11/USA/2021/EAVM2E	MZ322922
54	Rhinovirus C11 strain RvC11/USA/2021/N2VNU5	OK017944
55	Rhinovirus C11 strain RvC11/USA/2021/NE9HDM	MZ322928
56	Rhinovirus C11 strain RvC11/USA/2021/QZWH6	MZ153244
57	Rhinovirus C11 strain RvC11/USA/2021/U6TZ45	MZ268738
58	Rhinovirus C11 strain RvC11/USA/2021/VDNWYA	MZ363462.1
59	Rhinovirus C11 strain RvC11/USA/2021/VXVRZL	MZ629171
60	Rhinovirus C11 strain RvC11/USA/2021/W6UJZT	MZ460709
61	Rhinovirus C11 strain RvC11/USA/2021/WL4LFZ	OK649422
62	Rhinovirus C13 strain RvC13/USA/2021/71206	MW969536
63	Rhinovirus C15	GU219984
64	Rhinovirus C15 strain HRV-C15 isolate W10	GU219984
65	Rhinovirus C15 strain RvC15/USA/2021/2XWQD	MZ153254
66	Rhinovirus C15 strain RvC15/USA/2021/5JWXTT	MZ363414
67	Rhinovirus C15 strain RvC15/USA/2021/9VLHRN	MZ363420
68	Rhinovirus C15 strain RvC15/USA/2021/C6GXG6	MZ322921
69	Rhinovirus C15 strain RvC15/USA/2021/E3N3WF	OL365066
70	Rhinovirus C15 strain RvC15/USA/2021/MMYYH	OK017942
71	Rhinovirus C15 strain RvC15/USA/2021/PQTH9	MZ153251
72	Rhinovirus C15 strain RvC15/USA/2021/T9G8TG	OK161398
73	Rhinovirus C15 strain RvC15/USA/2021/VCPFJV	MZ460707
74	Rhinovirus C17 strain RvC17/USA/2021/163780	MZ268698
75	Rhinovirus C17 strain RvC17/USA/2021/255977	MZ268699
76	Rhinovirus C17 strain RvC17/USA/2021/256027	MZ363424
77	Rhinovirus C17 strain RvC17/USA/2021/278067	MZ268712
78	Rhinovirus C17 strain RvC17/USA/2021/2SH4TA	OK161409
79	Rhinovirus C17 strain RvC17/USA/2021/301397	MZ363427
80	Rhinovirus C17 strain RvC17/USA/2021/301913	MZ153261
81	Rhinovirus C17 strain RvC17/USA/2021/303342	MZ268700
82	Rhinovirus C17 strain RvC17/USA/2021/324382-4	MZ153281
83	Rhinovirus C17 strain RvC17/USA/2021/368020-4	MZ153278
84	Rhinovirus C17 strain RvC17/USA/2021/368038-4	MZ153277
85	Rhinovirus C17 strain RvC17/USA/2021/372634-4	MZ221153
86	Rhinovirus C17 strain RvC17/USA/2021/3QL9MK	MZ268704
87	Rhinovirus C17 strain RvC17/USA/2021/413860	MZ268721
88	Rhinovirus C17 strain RvC17/USA/2021/4GYJHF	MZ153258
89	Rhinovirus C17 strain RvC17/USA/2021/6KXCFQ	OK181457
90	Rhinovirus C17 strain RvC17/USA/2021/70961	MW969526
91	Rhinovirus C17 strain RvC17/USA/2021/7M3XTG	MZ268705
92	Rhinovirus C17 strain RvC17/USA/2021/ADYKUA	MZ268727
93	Rhinovirus C17 strain RvC17/USA/2021/BCNLYB	MZ363439
94	Rhinovirus C17 strain RvC17/USA/2021/DWFRET	MZ268728

Supplementary Table 1. Continued.

Sl. no	Strain name	Genbank Accession No.
95	Rhinovirus C17 strain RvC17/USA/2021/J6TJX2	MZ268730
96	Rhinovirus C17 strain RvC17/USA/2021/KG8UC2	MZ268731
97	Rhinovirus C17 strain RvC17/USA/2021/NAJQX5	OK017945
98	Rhinovirus C17 strain RvC17/USA/2021/PA4GYJ	MZ268734
99	Rhinovirus C17 strain RvC17/USA/2021/QTEY78	MZ268736
100	Rhinovirus C17 strain RvC17/USA/2021/RAPS7Y	MZ670590
101	Rhinovirus C17 strain RvC17/USA/2021/RCC55	MZ153245
102	Rhinovirus C17 strain RvC17/USA/2021/SELQEW	OK017955
103	Rhinovirus C17 strain RvC17/USA/2021/T3RVH2	MZ629165
104	Rhinovirus C17 strain RvC17/USA/2021/VA72NU	MZ268739
105	Rhinovirus C17 strain RvC17/USA/2021/WB6M3K	MZ629172
106	Rhinovirus C17 strain RvC17/USA/2021/WJYURT	MZ363464
107	Rhinovirus C17 strain RvC17/USA/2021/YLEL8X	MZ629181
108	Rhinovirus C2 strain RvC2/USA/2021/UUHCXG	OK161364
109	Rhinovirus C2 strain SC9735	KY369881
110	Rhinovirus C20 isolate 7H8M5V	MZ322913
111	Rhinovirus C20 strain RvC20/USA/2021/278145	MZ221150
112	Rhinovirus C20 strain RvC20/USA/2021/369829-4	MZ153276
113	Rhinovirus C20 strain RvC20/USA/2021/373799-4	MZ221148
114	Rhinovirus C20 strain RvC20/USA/2021/396585	MZ322918
115	Rhinovirus C20 strain RvC20/USA/2021/397175	MZ268714
116	Rhinovirus C20 strain RvC20/USA/2021/412252	MZ268718
117	Rhinovirus C20 strain RvC20/USA/2021/414373	MZ268722
118	Rhinovirus C20 strain RvC20/USA/2021/469761	MZ268684
119	Rhinovirus C20 strain RvC20/USA/2021/469862	MZ268697
120	Rhinovirus C20 strain RvC20/USA/2021/5AUZVQ	OL961518
121	Rhinovirus C20 strain RvC20/USA/2021/5VDGQ9	MZ322912
122	Rhinovirus C20 strain RvC20/USA/2021/69385	MW969522
123	Rhinovirus C20 strain RvC20/USA/2021/69636	MW969515
124	Rhinovirus C20 strain RvC20/USA/2021/69764	MW969516
125	Rhinovirus C20 strain RvC20/USA/2021/69819	MW969517
126	Rhinovirus C20 strain RvC20/USA/2021/6FRZAQ	OK017913
127	Rhinovirus C20 strain RvC20/USA/2021/70120	MW969519
128	Rhinovirus C20 strain RvC20/USA/2021/7Z36HC	MZ322914
129	Rhinovirus C20 strain RvC20/USA/2021/95505	MZ153266
130	Rhinovirus C20 strain RvC20/USA/2021/BSV8ZT	OK017923
131	Rhinovirus C20 strain RvC20/USA/2021/HD3BU5	OK017934
132	Rhinovirus C20 strain RvC20/USA/2021/P97PQA	OK017948
133	Rhinovirus C20 strain RvC20/USA/2021/QLS49P	MZ322930
134	Rhinovirus C20 strain RvC20/USA/2021/QNWDR7	MZ153249
135	Rhinovirus C20 strain RvC20/USA/2021/S5ZVP8	MZ268671
136	Rhinovirus C20 strain RvC20/USA/2021/WTLVJQ	MZ460711
137	Rhinovirus C20 strain RvC20/USA/2021/WUS4L7	MZ268674
138	Rhinovirus C20 strain RvC20/USA/2021/WYEV2L	MZ460712
139	Rhinovirus C20 strain SC3107	KY983589
140	Rhinovirus C27 strain SC1065	KY369877
141	Rhinovirus C28 strain RvC28/USA/2021/9FY4XM	OK017915
142	Rhinovirus C3	EF186077

Supplementary Table 1. Continued.

Sl. no	Strain name	Genbank Accession No.
143	Rhinovirus C3 strain RvC3/USA/2021/163432	MZ268677
144	Rhinovirus C3 strain RvC3/USA/2021/195793	MZ153271
145	Rhinovirus C3 strain RvC3/USA/2021/195826	MZ153270
146	Rhinovirus C3 strain RvC3/USA/2021/195842	MZ153269
147	Rhinovirus C3 strain RvC3/USA/2021/255245	MZ268711
148	Rhinovirus C3 strain RvC3/USA/2021/2DEQES	OK161367
149	Rhinovirus C3 strain RvC3/USA/2021/373293-4	MZ221146
150	Rhinovirus C3 strain RvC3/USA/2021/373796-4	MZ221154
151	Rhinovirus C3 strain RvC3/USA/2021/412120	MZ268717
152	Rhinovirus C3 strain RvC3/USA/2021/56015	MZ153256
153	Rhinovirus C3 strain RvC3/USA/2021/5Q5AWX	OK161371
154	Rhinovirus C3 strain RvC3/USA/2021/69829	MW969523
155	Rhinovirus C3 strain RvC3/USA/2021/70093	MW969524
156	Rhinovirus C3 strain RvC3/USA/2021/70156	MW969525
157	Rhinovirus C3 strain RvC3/USA/2021/96AGHN	OK161378
158	Rhinovirus C3 strain RvC3/USA/2021/AKGD5B	MZ268662
159	Rhinovirus C3 strain RvC3/USA/2021/E6M6C4	OK017931
160	Rhinovirus C3 strain RvC3/USA/2021/EY2M6	MZ153250
161	Rhinovirus C3 strain RvC3/USA/2021/NH9ZWD	MZ322929
162	Rhinovirus C3 strain RvC3/USA/2021/PE4F23	OK017949
163	Rhinovirus C3 strain RvC3/USA/2021/PTDPQ7	OL961537
164	Rhinovirus C3 strain RvC3/USA/2021/QYZBU2	OK181493
165	Rhinovirus C3 strain RvC3/USA/2021/ST6ND	MZ153243
166	Rhinovirus C3 strain RvC3/USA/2021/TQBKLQ	MZ427505
167	Rhinovirus C3 strain RvC3/USA/2021/U9JKY7	OM001455
168	Rhinovirus C31 strain RvC31/USA/2021/2CW83A	OK017909
169	Rhinovirus C31 strain RvC31/USA/2021/B8JUE1	MZ153253
170	Rhinovirus C33 strain RvC33/USA/2021/CMMX48	OK017926
171	Rhinovirus C33 strain RvC33/USA/2021/Q88UTK	OK017951
172	Rhinovirus C34 strain RvC34/USA/2021/444547	MZ268723
173	Rhinovirus C34 strain RvC34/USA/2021/7HD45F	MZ363416
174	Rhinovirus C36 strain RvC36/USA/2021/373119-4	MZ221147
175	Rhinovirus C36 strain RvC36/USA/2021/QSP2V8	OK017953
176	Rhinovirus C36 strain RvC36/USA/2021/SR8BMV	OK017957
177	Rhinovirus C36 strain RvC36/USA/2021/YW8JLC	MZ670596
178	Rhinovirus C40 strain RvC40/USA/2021/70389	MW969535
179	Rhinovirus C42 strain RvC42/USA/2021/044858	MZ268709
180	Rhinovirus C42 strain RvC42/USA/2021/413233	MZ363432
181	Rhinovirus C42 strain RvC42/USA/2021/414488	MZ363434
182	Rhinovirus C42 strain RvC42/USA/2021/5E6LQM	MZ363413
183	Rhinovirus C42 strain RvC42/USA/2021/7CST74	MZ268647
184	Rhinovirus C42 strain RvC42/USA/2021/D6RUSG	OL638426
185	Rhinovirus C42 strain RvC42/USA/2021/D7KU9F	OK181472
186	Rhinovirus C42 strain RvC42/USA/2021/UUAFSF	OK181499
187	Rhinovirus C42 strain RvC42/USA/2021/YGHJB	MZ153246
188	Rhinovirus C42 strain USA/CA/2016-23027	MH752985
189	Rhinovirus C43 strain RvC43/USA/2021/AXWQE9	MZ363437
190	Rhinovirus C43 strain RvC43/USA/2021/WYX8S9	OK161404

Supplementary Table 1. Continued.

Sl. no	Strain name	Genbank Accession No.
191	Rhinovirus C43 strain SC174	KY369878
192	Rhinovirus C44 strain RvC44/USA/2021/044640	MZ268708
193	Rhinovirus C44 strain RvC44/USA/2021/163436	MZ268678
194	Rhinovirus C44 strain RvC44/USA/2021/8DU56B	MZ268650
195	Rhinovirus C44 strain RvC44/USA/2021/HWYGUE	MZ363445
196	Rhinovirus C44 strain RvC44/USA/2021/J9YXQX	OK017938
197	Rhinovirus C44 strain RvC44/USA/2021/KNT548	MZ153259
198	Rhinovirus C44 strain RvC44/USA/2021/PBXE3T	OL961535
199	Rhinovirus C44 strain RvC44/USA/2021/QQUQG5	MZ363450
200	Rhinovirus C44 strain RvC44/USA/2021/SFJ6NZ	OL961544
201	Rhinovirus C44 strain RvC44/USA/2021/SQUPYT	MZ363456
202	Rhinovirus C44 strain RvC44/USA/2021/UFPUR4	MZ629168
203	Rhinovirus C5	EF582386
204	Rhinovirus C50	KF688606
205	Rhinovirus C53 strain USA/2015-20994	MF775367
206	Rhinovirus C53 strain USA/CO/2014-20993	MF775366
207	Rhinovirus C55 strain RvC55/USA/2021/70881	MW969530
208	Rhinovirus C56 strain RvC56/USA/2021/367598	MZ363428
209	Rhinovirus C56 strain RvC56/USA/2021/367987-4	MZ153279
210	Rhinovirus C56 strain RvC56/USA/2021/465986	MZ268724
211	Rhinovirus C56 strain RvC56/USA/2021/466519	MZ363435
212	Rhinovirus C56 strain RvC56/USA/2021/466615	MZ268726
213	Rhinovirus C56 strain RvC56/USA/2021/60602	MW969529
214	Rhinovirus C56 strain RvC56/USA/2021/69444	MW802583
215	Rhinovirus C56 strain RvC56/USA/2021/69486	MW969528
216	Rhinovirus C56 strain RvC56/USA/2021/9CDWUK	MZ322916
217	Rhinovirus C56 strain RvC56/USA/2021/E5AKW2	MZ268729
218	Rhinovirus C6	EF582387
219	Rhinovirus C7	DQ875932
220	Rhinovirus C7 strain RvC7/USA/2021/LQUYNG	OM001438
221	Rhinovirus C7 strain RvC7/USA/2021/WUFYKZ	OK181501
222	Rhinovirus C8 isolate N4	GQ223227
223	Rhinovirus C8 strain RvC8/USA/2021/6SQ8E	MZ153252
224	Rhinovirus C8 strain RvC8/USA/2021/7N6PM0	MZ268648
225	Rhinovirus C8 strain RvC8/USA/2021/DKCHNT	MZ363442
226	Rhinovirus C8 strain RvC8/USA/2021/MYREPR	OK181487
227	Rhinovirus C8 strain RvC8/USA/2021/MYREPR2	OL365068
228	Rhinovirus C9 isolate N10	GQ223228
229	Rhinovirus C isolate AZ6_4	MW679007
230	Rhinovirus C isolate AZ7_188	MW679009
231	Rhinovirus C strain QCE	GQ323774

Supplementary Table 2. Predicted IFN- γ epitopes from IFNepitope server.

Sl. no.	Start-End	Sequence	Method	Result	Score
1	0-15	MAKLSTDELLDAFKE	SVM	POSITIVE	0.37
2	1-16	AKLSTDELLDAFKEM	SVM	POSITIVE	0.38
3	2-17	KLSTDELLDAFKEMT	SVM	POSITIVE	0.39
4	3-18	LSTDELLDAFKEMTL	SVM	POSITIVE	0.4
5	4-19	STDELLDAFKEMTLL	SVM	POSITIVE	0.43
6	5-20	TDELLDAFKEMTLLLE	SVM	POSITIVE	0.45
7	6-21	DELLDAFKEMTLLLEL	SVM	POSITIVE	0.45
8	7-22	ELLDAAFKEMTLLLELS	SVM	POSITIVE	0.45
9	8-23	LLDAFKEMTLLLELSD	SVM	POSITIVE	0.44
10	9-24	LDAFKEMTLLLELSDF	SVM	POSITIVE	0.4
11	10-25	DAFKEMTLLLELSDFV	SVM	POSITIVE	0.41
12	11-26	AFKEMTLLLELSDFVK	SVM	POSITIVE	0.44
13	12-27	FKEMTLLLELSDFVKK	SVM	POSITIVE	0.46
14	13-28	KEMTLLLELSDFVKKF	SVM	POSITIVE	0.48
15	14-29	EMTLLLELSDFVKKFE	SVM	POSITIVE	0.49
16	15-30	MTLLLELSDFVKKFEE	SVM	POSITIVE	0.5
17	16-31	TLLLELSDFVKKFEET	SVM	POSITIVE	0.49
18	17-32	LLELSDFVKKFEETF	SVM	POSITIVE	0.49
19	18-33	LELSDFVKKFEETFE	SVM	POSITIVE	0.45
20	19-34	ELSDVFKKFEETFEV	SVM	POSITIVE	0.44
21	20-35	LSDFVKKFEETFEVT	SVM	POSITIVE	0.42
22	21-36	SDFVKKFEETFEVTA	SVM	POSITIVE	0.42
23	22-37	DFVKKFEETFEVTAA	SVM	POSITIVE	0.42
24	23-38	FVKKFEETFEVTAAA	SVM	POSITIVE	0.42
25	24-39	VKKFEETFEVTAAAP	SVM	POSITIVE	0.39
26	25-40	KKFEETFEVTAAAPV	SVM	POSITIVE	0.41
27	26-41	KFEETFEVTAAAPVA	SVM	POSITIVE	0.41
28	27-42	FEETFEVTAAAPVAV	SVM	POSITIVE	0.4
29	28-43	EETFEVTAAAPVAVA	SVM	POSITIVE	0.41
30	29-44	ETFEVTAAAPVAVAA	SVM	POSITIVE	0.39
31	30-45	TFEVTAAAPVAVAAA	SVM	POSITIVE	0.39
32	31-46	FEVTAAAPVAVAAAAG	SVM	POSITIVE	0.34
33	32-47	EVTAAAPVAVAAAAGA	SVM	POSITIVE	0.34
34	33-48	VTAAAPVAVAAAAGAA	SVM	POSITIVE	0.36
35	34-49	TAAAPVAVAAAAGAAP	SVM	POSITIVE	0.34
36	35-50	AAAPVAVAAAAGAAPA	SVM	POSITIVE	0.32
37	36-51	AAPVAVAAAAGAAPAG	SVM	POSITIVE	0.29
38	37-52	APVAVAAAAGAAPAGA	SVM	POSITIVE	0.38
39	38-53	PVAVAAAAGAAPAGAA	SVM	POSITIVE	0.36
40	39-54	VAVAAAAGAAPAGAAV	SVM	POSITIVE	0.39
41	40-55	AVAAAAGAAPAGAAVE	SVM	POSITIVE	0.44
42	41-56	VAAAAGAAPAGAAVEA	SVM	POSITIVE	0.4
43	42-57	AAAGAAPAGAAVEAA	SVM	POSITIVE	0.45
44	43-58	AAGAAPAGAAVEAAE	SVM	POSITIVE	0.48
45	44-59	AGAAPAGAAVEAAEE	SVM	POSITIVE	0.5
46	45-60	GAAAPAGAAVEAAEEQ	SVM	POSITIVE	0.52
47	46-61	AAPAGAAVEAAEEQS	SVM	POSITIVE	0.47
48	47-62	APAGAAVEAAEEQSE	SVM	POSITIVE	0.48
49	48-63	PAGAAVEAAEEQSEF	SVM	POSITIVE	0.54

Supplementary Table 2. Continued.

Sl. no.	Start-End	Sequence	Method	Result	Score
50	49-64	AGAAVEAAEEQSEFD	SVM	POSITIVE	0.54
51	50-65	GAAVEAAEEQSEFDV	SVM	POSITIVE	0.52
52	51-66	AAVEAAEEQSEFDVI	SVM	POSITIVE	0.49
53	52-67	AVEAAEEQSEFDVIL	SVM	POSITIVE	0.52
54	53-68	VEAAEEQSEFDVILE	SVM	POSITIVE	0.52
55	54-69	EAAEEQSEFDVILEA	SVM	POSITIVE	0.49
56	55-70	AAEEQSEFDVILEAA	SVM	POSITIVE	0.51
57	56-71	AEEQSEFDVILEAAG	SVM	POSITIVE	0.54
58	57-72	EEQSEFDVILEAAGD	SVM	POSITIVE	0.51
59	58-73	EQSEFDVILEAAGDK	SVM	POSITIVE	0.49
60	59-74	QSEFDVILEAAGDKK	SVM	POSITIVE	0.5
61	60-75	SEFDVILEAAGDKKI	SVM	POSITIVE	0.48
62	61-76	EFDVILEAAGDKKIG	SVM	POSITIVE	0.49
63	62-77	FDVILEAAGDKKIGV	SVM	POSITIVE	0.5
64	63-78	DVILEAAGDKKIGVI	SVM	POSITIVE	0.5
65	64-79	VILEAAGDKKIGVIK	SVM	POSITIVE	0.5
66	65-80	ILEAAGDKKIGVIKV	SVM	POSITIVE	0.55
67	66-81	LEAAGDKKIGVIKVV	SVM	POSITIVE	0.52
68	67-82	EAAGDKKIGVIKVV	SVM	POSITIVE	0.53
69	68-83	AAGDKKIGVIKVVRE	SVM	POSITIVE	0.55
70	69-84	AGDKKIGVIKVVREI	SVM	POSITIVE	0.55
71	70-85	GDKKIGVIKVVREIV	SVM	POSITIVE	0.53
72	71-86	DKKIGVIKVVREIVS	SVM	POSITIVE	0.56
73	72-87	KKIGVIKVVREIVSG	SVM	POSITIVE	0.58
74	73-88	KIGVIKVVREIVSGL	SVM	POSITIVE	0.59
75	74-89	IGVIKVVREIVSGLG	SVM	POSITIVE	0.59
76	75-90	GVIKVVREIVSGLGL	SVM	POSITIVE	0.53
77	76-91	VIKVVREIVSGLGLK	SVM	POSITIVE	0.53
78	77-92	IKVVREIVSGLGLKE	SVM	POSITIVE	0.51
79	78-93	KVVREIVSGLGLKEA	SVM	POSITIVE	0.51
80	79-94	VREIVSGLGLKEAK	SVM	POSITIVE	0.49
81	80-95	VREIVSGLGLKEAKD	SVM	POSITIVE	0.48
82	81-96	REIVSGLGLKEAKDL	SVM	POSITIVE	0.46
83	82-97	EIVSGLGLKEAKDLV	SVM	POSITIVE	0.47
84	83-98	IVSGLGLKEAKDLVD	SVM	POSITIVE	0.45
85	84-99	VSGLGLKEAKDLVDG	SVM	POSITIVE	0.46
86	85-100	SGLGLKEAKDLVDGA	SVM	POSITIVE	0.45
87	86-101	GLGLKEAKDLVDGAP	SVM	POSITIVE	0.47
88	87-102	LGLKEAKDLVDGAPK	SVM	POSITIVE	0.44
89	88-103	GLKEAKDLVDGAPKP	SVM	POSITIVE	0.39
90	89-104	LKEAKDLVDGAPKPL	SVM	POSITIVE	0.4
91	90-105	KEAKDLVDGAPKPLL	SVM	POSITIVE	0.44
92	91-106	EAKDLVDGAPKPLLE	SVM	POSITIVE	0.48
93	92-107	AKDLVDGAPKPLLEK	SVM	POSITIVE	0.5
94	93-108	KDLVDGAPKPLLEKV	SVM	POSITIVE	0.51
95	94-109	DLVDGAPKPLLEKVA	SVM	POSITIVE	0.54
96	95-110	LVDGAPKPLLEKVAK	SVM	POSITIVE	0.53
97	96-111	VDGAPKPLLEKVAKE	SVM	POSITIVE	0.48
98	97-112	DGAPKPLLEKVAKEA	SVM	POSITIVE	0.46

Supplementary Table 2. Continued.

Sl. no.	Start-End	Sequence	Method	Result	Score
99	98-113	GAPKPLLEKVAKEAA	SVM	POSITIVE	0.47
100	99-114	APKPLLEKVAKEAAD	SVM	POSITIVE	0.4
101	100-115	PKPLLEKVAKEAADE	SVM	POSITIVE	0.42
102	101-116	KPLLEKVAKEAADEA	SVM	POSITIVE	0.45
103	102-117	PLLEKVAKEAADEAK	SVM	POSITIVE	0.45
104	103-118	LLEKVAKEAADEAKA	SVM	POSITIVE	0.44
105	104-119	LEKVAKEAADEAKAK	SVM	POSITIVE	0.44
106	105-120	EKVAKEAADEAKAKL	SVM	POSITIVE	0.45
107	106-121	KVAKEAADEAKAKLE	SVM	POSITIVE	0.44
108	107-122	VAKEAADEAKAKLEA	SVM	POSITIVE	0.45
109	108-123	AKEAADEAKAKLEAA	SVM	POSITIVE	0.45
110	109-124	KEAADEAKAKLEAAG	SVM	POSITIVE	0.45
111	110-125	EAADEAKAKLEAAGA	SVM	POSITIVE	0.46
112	111-126	AADEAKAKLEAAGAT	SVM	POSITIVE	0.46
113	112-127	ADEAKAKLEAAGATV	SVM	POSITIVE	0.46
114	113-128	DEAKAKLEAAGATVT	SVM	POSITIVE	0.45
115	114-129	EAKAKLEAAGATVTV	SVM	POSITIVE	0.46
116	115-130	AKAKLEAAGATVTVK	SVM	POSITIVE	0.47
117	116-131	KAKLEAAGATVTVKE	SVM	POSITIVE	0.45
118	117-132	AKLEAAGATVTVKEA	SVM	POSITIVE	0.44
119	118-133	KLEAAGATVTVKEAA	SVM	POSITIVE	0.44
120	119-134	LEAAGATVTVKEAAA	SVM	POSITIVE	0.42
121	120-135	EAAGATVTVKEAAAK	SVM	POSITIVE	0.43
122	121-136	AAGATVTVKEAAAKV	SVM	POSITIVE	0.44
123	122-137	AGATVTVKEAAAKVA	SVM	POSITIVE	0.46
124	123-138	GATVTVKEAAAKVAY	SVM	POSITIVE	0.38
125	124-139	ATVTVKEAAAKVAYG	SVM	POSITIVE	0.36
126	125-140	TVTVKEAAAKVAYGE	SVM	POSITIVE	0.4
127	126-141	VTVKEAAAKVAYGEW	SVM	POSITIVE	0.4
128	127-142	TVKEAAAKVAYGEWP	SVM	POSITIVE	0.4
129	128-143	VKEAAAKVAYGEWPE	SVM	POSITIVE	0.41
130	129-144	KEAAAKVAYGEWPEY	SVM	POSITIVE	0.42
131	130-145	EAAAKVAYGEWPEYA	SVM	POSITIVE	0.42
132	131-146	AAAKVAYGEWPEYAA	SVM	POSITIVE	0.43
133	132-147	AAKVAYGEWPEYAAY	SVM	POSITIVE	0.43
134	133-148	AKVAYGEWPEYAAYK	SVM	POSITIVE	0.42
135	134-149	KVAYGEWPEYAAYKP	SVM	POSITIVE	0.41
136	135-150	VAYGEWPEYAAYKPT	SVM	POSITIVE	0.4
137	136-151	AYGEWPEYAAYKPTH	SVM	POSITIVE	0.41
138	137-152	YGEWPEYAAYKPTH	SVM	POSITIVE	0.42
139	138-153	GEWPEYAAYKPTHPE	SVM	POSITIVE	0.41
140	139-154	EWPEYAAYKPTHPET	SVM	POSITIVE	0.4
141	140-155	WPEYAAYKPTHPETS	SVM	POSITIVE	0.4
142	141-156	PEYAAYKPTHPETS	SVM	POSITIVE	0.4
143	142-157	EYAAYKPTHPETSAA	SVM	POSITIVE	0.38
144	143-158	YAAYKPTHPETSAAA	SVM	POSITIVE	0.36
145	144-159	AAYKPTHPETSAAAY	SVM	POSITIVE	0.37
146	145-160	AYKPTHPETSAAAYN	SVM	POSITIVE	0.37
147	146-161	YKPTHPETSAAAYNS	SVM	POSITIVE	0.38

Supplementary Table 2. Continued.

Sl. no.	Start-End	Sequence	Method	Result	Score
148	147-162	KPTHETSAAAAYNSV	SVM	POSITIVE	0.41
149	148-163	PTHETSAAAAYNSV	SVM	POSITIVE	0.42
150	149-164	THETSAAAAYNSWA	SVM	POSITIVE	0.41
151	150-165	HPETSAAAAYNSVAY	SVM	POSITIVE	0.4
152	151-166	PETSAAAAYNSVAYG	SVM	POSITIVE	0.4
153	152-167	ETSAAAAYNSVAYGE	SVM	POSITIVE	0.41
154	153-168	TSAAAAYNSVAYGEW	SVM	POSITIVE	0.42
155	154-169	SAAAAYNSVAYGEWG	SVM	POSITIVE	0.41
156	155-170	AAAAYNSVAYGEWGP	SVM	POSITIVE	0.43
157	156-171	AAAYNSVAYGEWGPG	SVM	POSITIVE	0.46
158	157-172	AYNSVAYGEWGPGP	SVM	POSITIVE	0.46
159	158-173	YNSVAYGEWGPGPG	SVM	POSITIVE	0.49
160	159-174	NSVAYGEWGPGPGH	SVM	POSITIVE	0.49
161	160-175	SVAYGEWGPGPGHNN	SVM	POSITIVE	0.48
162	161-176	VAYGEWGPGPGHNN	SVM	POSITIVE	0.47
163	162-177	VAYGEWGPGPGHNNI	SVM	POSITIVE	0.46
164	163-178	AYGEWGPGPGHNNIS	SVM	POSITIVE	0.46
165	164-179	YGEWGPGPGHNNISL	SVM	POSITIVE	0.47
166	165-180	GEWGPGPGHNNISLV	SVM	POSITIVE	0.48
167	166-181	EWGPGPGHNNISLVI	SVM	POSITIVE	0.48
168	167-182	WGPVPGHNNISLVII	SVM	POSITIVE	0.48
169	168-183	GPVPGHNNISLVIIIP	SVM	POSITIVE	0.49
170	169-184	PGVPGHNNISLVIIPL	SVM	POSITIVE	0.52
171	170-185	GPVPGHNNISLVIIPLV	SVM	POSITIVE	0.52
172	171-186	PGHNNISLVIIPLVLR	SVM	POSITIVE	0.54
173	172-187	GHNNISLVIIPLVRL	SVM	POSITIVE	0.55
174	173-188	HNNISLVIIPLVRLK	SVM	POSITIVE	0.57
175	174-189	NNISLVIIPLVRLKKG	SVM	POSITIVE	0.56
176	175-190	NISLVIIPLVRLKGP	SVM	POSITIVE	0.57
177	176-191	ISLVIIPLVRLKGP	SVM	POSITIVE	0.57
178	177-192	SLVIIPLVRLKGP	SVM	POSITIVE	0.52
179	178-193	LVIIPLVRLKGP	SVM	POSITIVE	0.5
180	179-194	VIIPLVRLKGP	SVM	POSITIVE	0.53
181	180-195	IIPVRLKGP	SVM	POSITIVE	0.52
182	181-196	IPLVRLKGP	SVM	POSITIVE	0.51
183	182-197	PLVRLKGP	SVM	POSITIVE	0.51
184	183-198	LVRLKGP	SVM	POSITIVE	0.49
185	184-199	VRLKGP	SVM	POSITIVE	0.48
186	185-200	RLKGP	SVM	POSITIVE	0.46
187	186-201	LKGP	SVM	POSITIVE	0.45
188	187-202	KGPG	SVM	POSITIVE	0.45
189	188-203	GPGLAY	SVM	POSITIVE	0.45
190	189-204	PGGLAY	SVM	POSITIVE	0.43
191	190-205	GPLAY	SVM	POSITIVE	0.36
192	191-206	PGLAY	SVM	POSITIVE	0.36
193	192-207	GLAY	SVM	POSITIVE	0.34
194	193-208	LAY	SVM	POSITIVE	0.34
195	194-209	AY	SVM	POSITIVE	0.37
196	195-210	Y	SVM	POSITIVE	0.37

Supplementary Table 2. Continued.

Sl. no.	Start-End	Sequence	Method	Result	Score
197	196-211	IGGGNANVKYKHGPG	SVM	POSITIVE	0.38
198	197-212	GGGNANVKYKHGPGP	SVM	POSITIVE	0.41
199	198-213	GGNANVKYKHGPGPG	SVM	POSITIVE	0.45
200	199-214	GNANVKYKHGPGPGH	SVM	POSITIVE	0.45
201	200-215	NANVKYKHGPGPGHQ	SVM	POSITIVE	0.45
202	201-216	ANVKYKHGPGPGHQM	SVM	POSITIVE	0.46
203	202-217	NVKYKHGPGPGHQMI	SVM	POSITIVE	0.47
204	203-218	VKYKHGPGPGHQMIN	SVM	POSITIVE	0.47
205	204-219	KYKHGPGPGHQMINL	SVM	POSITIVE	0.48
206	205-220	YKHGPGPGHQMINLR	SVM	POSITIVE	0.49
207	206-221	KHGPGPGHQMINLRT	SVM	POSITIVE	0.5
208	207-222	HGPGPGHQMINLRTN	SVM	POSITIVE	0.5
209	208-223	GPGPGHQMINLRTNN	SVM	POSITIVE	0.5
210	209-224	PGPGHQMINLRTNNS	SVM	POSITIVE	0.53
211	210-225	GPGHQMINLRTNNSA	SVM	POSITIVE	0.56
212	211-226	PGHQMINLRTNNSAT	SVM	POSITIVE	0.6
213	212-227	GHQMINLRTNNSATL	SVM	POSITIVE	0.58
214	213-228	HQMINLRTNNSATLI	SVM	POSITIVE	0.6
215	214-229	QMINLRTNNSATLIK	SVM	POSITIVE	0.6
216	215-230	MINLRTNNSATLIKK	SVM	POSITIVE	0.6
217	216-231	INLRTNNSATLIKKR	SVM	POSITIVE	0.6
218	217-232	NLRTNNSATLIKKRL	SVM	POSITIVE	0.6
219	218-233	LRTNNSATLIKKRLK	SVM	POSITIVE	0.59
220	219-234	RTNNSATLIKKRLKQ	SVM	POSITIVE	0.53
221	220-235	TNNSATLIKKRLKQI	SVM	POSITIVE	0.52
222	221-236	NNSATLIKKRLKQIT	SVM	POSITIVE	0.54
223	222-237	NSATLIKKRLKQITI	SVM	POSITIVE	0.56
224	223-238	SATLIKKRLKQITIG	SVM	POSITIVE	0.54
225	224-239	ATLIKKRLKQITIGD	SVM	POSITIVE	0.53
226	225-240	TLIKKRLKQITIGDS	SVM	POSITIVE	0.54
227	226-241	LIKKRLKQITIGDST	SVM	POSITIVE	0.55
228	227-242	IKKRLKQITIGDSTI	SVM	POSITIVE	0.53
229	228-243	KKRLKQITIGDSTIT	SVM	POSITIVE	0.5
230	229-244	KRLKQITIGDSTITT	SVM	POSITIVE	0.51
231	230-245	RLKQITIGDSTITTQ	SVM	POSITIVE	0.5
232	231-246	LKQITIGDSTITTQD	SVM	POSITIVE	0.5
233	232-247	KQITIGDSTITTQDE	SVM	POSITIVE	0.5
234	233-248	QITIGDSTITTQDEP	SVM	POSITIVE	0.5
235	234-249	ITIGDSTITTQDEPE	SVM	POSITIVE	0.49
236	235-250	TIGDSTITTQDEPEA	SVM	POSITIVE	0.49
237	236-250	IGDSTITTQDEPEA	SVM	POSITIVE	0.47
238	237-250	GDSTITTQDEPEA	SVM	POSITIVE	0.47
239	238-250	DSTITTQDEPEA	SVM	POSITIVE	0.46
240	239-250	STITTQDEPEA	SVM	POSITIVE	0.45
241	240-250	TITTQDEPEA	SVM	POSITIVE	0.45
242	241-250	ITTQDEPEA	SVM	POSITIVE	0.44