

```

10 20 30 40 50 60 70 80 90 100 110 120
MC58      MTRSKVAKRTAPCCCLSLTTALILTACS---SQQGQVANDIGAGLADALTAPDKKIKLQSLTLDQSVKQEKIKLAKQGAETKTPKQD---SLWTKLKLQKRVSRDFIRQLSDQDQ
L91543    F..A.....
Strain 1|H44/76
Strain 2|ML0_240684
Strain 3|ML0_240701
Strain 4|ML02_241729
Strain 5|ML0_240579
Strain 6|ML3_240525
Strain 7|ML04_241215
Strain 8|ML1_241066
Strain 9|ML3_240614
Strain 10|ML0_240750
Strain 11|ML3_240675
Strain 12|ML1_240236
Strain 13|ML2_240006
Strain 14|ML1_241033
Strain 15|ML4_240367
Strain 16|ML02_240210
Strain 17|ML1_240077
Strain 18|ML3_240486

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130 140 150 160 170 180 190 200 210 220 230 240
MC58      LTTLSQKQEVVYDQSHSALTAPQVQVQVSEKSSVAVKQKQFRIQDIDAGETSIFDKLPEKQKATVPTATPSSDQAGKLTPTIDFNAGQKQKIEKLSKLPKLVQDLSQDQKQKAV
L91543    L..V..D.....K..S.....H.....E..T..Y..E.....
Strain 1|H44/76
Strain 2|ML0_240684
Strain 3|ML0_240701
Strain 4|ML02_241729
Strain 5|ML0_240579
Strain 6|ML3_240525
Strain 7|ML04_241215
Strain 8|ML1_241066
Strain 9|ML3_240614
Strain 10|ML0_240750
Strain 11|ML3_240675
Strain 12|ML1_240236
Strain 13|ML2_240006
Strain 14|ML1_241033
Strain 15|ML4_240367
Strain 16|ML02_240210
Strain 17|ML1_240077
Strain 18|ML3_240486

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250 260 270 280 290 300 310
MC58      ISSVLPVQKQEKSSVSLTIPKQKQVAGSSVAVKQKQFRIQDIDAGETSIFDKLPEKQKATVPTATPSSDQAGKLTPTIDFNAGQKQKIEKLSKLPKLVQDLSQDQKQKAV
L91543    D...Q...E..A..K...I...L...K...L...K...
Strain 1|H44/76
Strain 2|ML0_240684
Strain 3|ML0_240701
Strain 4|ML02_241729
Strain 5|ML0_240579
Strain 6|ML3_240525
Strain 7|ML04_241215
Strain 8|ML1_241066
Strain 9|ML3_240614
Strain 10|ML0_240750
Strain 11|ML3_240675
Strain 12|ML1_240236
Strain 13|ML2_240006
Strain 14|ML1_241033
Strain 15|ML4_240367
Strain 16|ML02_240210
Strain 17|ML1_240077
Strain 18|ML3_240486

```

Strain	Similarity (%)
1	100
2	97
3	97
4	94
5	96
6	96
7	96
8	96
9	96
L91543	93
10	92
11	92
12	94
13	94
14	86
15	86
16	86
17	86
18	86