

SNP FISH Probes

Guide probe: NA_Cali2009

atcttttggttgattcat	NA_Cali2009_1
tacagaccgaaccaatggtt	NA_Cali2009_2
aagttagccattccaattgt	NA_Cali2009_3
gtggctaatacatattgaga	NA_Cali2009_4
tctgattttgattcccaagt	NA_Cali2009_5
tgacgctttgattgcatggt	NA_Cali2009_6
taccaagtgtgttttcat	NA_Cali2009_7
gctgatgtaacatatgtct	NA_Cali2009_8
actgtccagcagcaaagttg	NA_Cali2009_9
gctaatttcacggaaaccac	NA_Cali2009_10
agggcagagagaggaattgc	NA_Cali2009_11
tgtatatagcccatccacta	NA_Cali2009_12
cttatgacaaacacatcccc	NA_Cali2009_13
ggggagcatgatatgaatgg	NA_Cali2009_14
gaagaaggttctgcattcca	NA_Cali2009_15
tgtttgtcatttagcaaggc	NA_Cali2009_16
gtctttaatggttccattgg	NA_Cali2009_17
ttagggttcgatatgggctc	NA_Cali2009_18
acttccaataggacagct	NA_Cali2009_19
tcttgagttgtatggagagg	NA_Cali2009_20
acaagcacttgctgaccaag	NA_Cali2009_21
tactttaacacagccactgc	NA_Cali2009_22
agtgtctgttattatgccgt	NA_Cali2009_23
tattgtttctccaactcttg	NA_Cali2009_24
tcagactcttgtgttctcaa	NA_Cali2009_25
tccatcggtcattacagtaa	NA_Cali2009_26
tatgaggcctgtccattact	NA_Cali2009_27
cccttttctattctgaagat	NA_Cali2009_28
caggataacaggagcattcc	NA_Cali2009_31
ttctggttgaaagacacca	NA_Cali2009_32
gtatcctatctgatattcca	NA_Cali2009_33
tggattgtctccgaaaatcc	NA_Cali2009_34
actgcctgtcttatcattag	NA_Cali2009_35
ccattagacgatactggacc	NA_Cali2009_36
tagttctccctatccaaca	NA_Cali2009_37
ccgtttcttgaactaatgct	NA_Cali2009_38
cggatcccaaatcatctcaa	NA_Cali2009_39
gagaagttattgtctgtccc	NA_Cali2009_40
tcctacgatattcttgcttta	NA_Cali2009_41

tatatacctgaccactcattt	NA_Cali2009_42
ggatgctgaacaaaactccc	NA_Cali2009_43
gcaaggctttatacaatcca	NA_Cali2009_44
cagattgtgttctctttggg	NA_Cali2009_45
caaaaggatatgctgctccc	NA_Cali2009_46
cacagtgtcactgtttacac	NA_Cali2009_47
taaattggcaactcagcaccg	NA_Cali2009_48

Wild-type probe:

tagtgataaattaggggcattcatttcgact NA_823C->T_WT_bindsC

Mutant probe:

tagtaataaattaggggcattcatttcgac NA_823C->T_Mut_bindsT

Mask probe:

agtcgaaatgaatgcccta Mask20bp_NA_823C->T

Rhinovirus A

cggggaaacagaagtgttg	RhinovirusA_cluster2_clustal_1
ttactaggcttgcttaggc	RhinovirusA_cluster2_clustal_2
acgcaggctagaactgtc	RhinovirusA_cluster2_clustal_3
tacgactagatacactgg	RhinovirusA_cluster2_clustal_4
caaagtagttgtccatcc	RhinovirusA_cluster2_clustal_5
atatattgtcaccataagca	RhinovirusA_cluster2_clustal_6
atgtcttcaggtgaacatt	RhinovirusA_cluster2_clustal_7
tttgtgcggtatatgactaa	RhinovirusA_cluster2_clustal_8
aatgcaacatgaccctcacc	RhinovirusA_cluster2_clustal_9
attcctattatactacctat	RhinovirusA_cluster2_clustal_10
ggggaaacagaagtgttg	RhinovirusA_cluster3_clustal_1
ttgccttgggtaaagcatat	RhinovirusA_cluster3_clustal_2
agtgttactaggctctgtgt	RhinovirusA_cluster3_clustal_3
tcactgcccaggctactat	RhinovirusA_cluster3_clustal_4
cacgcaggctagaactgt	RhinovirusA_cluster3_clustal_5
aattagcacacggggctctt	RhinovirusA_cluster3_clustal_6
aaggtagccacattcaggg	RhinovirusA_cluster3_clustal_7
aaccattggattatgggca	RhinovirusA_cluster3_clustal_8
ccgcaattgctcattacgac	RhinovirusA_cluster3_clustal_9
acacggacaccaaagtagt	RhinovirusA_cluster3_clustal_10
cttgtgcacccatgatgaca	RhinovirusA_cluster3_clustal_12
gtaccaacatttgtctaga	RhinovirusA_cluster3_clustal_13
ttgctcactgaatttgtgt	RhinovirusA_cluster3_clustal_14
ccacttgatgctcatcttt	RhinovirusA_cluster3_clustal_15

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RhinovirusA_cluster4_clustal_3

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Rhinovirus B

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RhinovirusB_cluster1_clustal_41

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RhinovirusB_cluster1_clustal_42
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RhinovirusB_cluster3_clustal_29
RhinovirusB_cluster3_clustal_30
RhinovirusB_cluster3_clustal_31
RhinovirusB_cluster3_clustal_32
RhinovirusB_cluster3_clustal_33
RhinovirusB_cluster4_clustal_2
RhinovirusB_cluster4_clustal_3
RhinovirusB_cluster4_clustal_4
RhinovirusB_cluster4_clustal_5

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gctcctgtttttccacaaa
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RhinovirusB_cluster4_clustal_6
RhinovirusB_cluster4_clustal_8
RhinovirusB_cluster4_clustal_9
RhinovirusB_cluster4_clustal_10
RhinovirusB_cluster4_clustal_11
RhinovirusB_cluster4_clustal_12
RhinovirusB_cluster4_clustal_13
RhinovirusB_cluster4_clustal_14
RhinovirusB_cluster4_clustal_15
RhinovirusB_cluster4_clustal_16
RhinovirusB_cluster4_clustal_17
RhinovirusB_cluster4_clustal_18
RhinovirusB_cluster4_clustal_19
RhinovirusB_cluster4_clustal_20

Rhinovirus C

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RhinovirusC_cluster1_clustal_1
RhinovirusC_cluster1_clustal_2
RhinovirusC_cluster1_clustal_3
RhinovirusC_cluster1_clustal_4
RhinovirusC_cluster1_clustal_5
RhinovirusC_cluster1_clustal_6
RhinovirusC_cluster1_clustal_7
RhinovirusC_cluster1_clustal_8
RhinovirusC_cluster1_clustal_9
RhinovirusC_cluster1_clustal_10
RhinovirusC_cluster1_clustal_11
RhinovirusC_cluster1_clustal_12
RhinovirusC_cluster1_clustal_13
RhinovirusC_cluster1_clustal_14
RhinovirusC_cluster1_clustal_15
RhinovirusC_cluster1_clustal_16
RhinovirusC_cluster1_clustal_17
RhinovirusC_cluster1_clustal_18
RhinovirusC_cluster1_clustal_19
RhinovirusC_cluster1_clustal_20
RhinovirusC_cluster1_clustal_21
RhinovirusC_cluster1_clustal_22
RhinovirusC_cluster1_clustal_23
RhinovirusC_cluster1_clustal_24
RhinovirusC_cluster1_clustal_25
RhinovirusC_cluster1_clustal_26

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RhinovirusC_cluster1_clustal_27
RhinovirusC_cluster1_clustal_28
RhinovirusC_cluster1_clustal_29
RhinovirusC_cluster2_clustal_1
RhinovirusC_cluster2_clustal_2
RhinovirusC_cluster2_clustal_3
RhinovirusC_cluster2_clustal_4
RhinovirusC_cluster2_clustal_5
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RhinovirusC_cluster2_clustal_7
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RhinovirusC_cluster2_clustal_10
RhinovirusC_cluster2_clustal_11
RhinovirusC_cluster2_clustal_12
RhinovirusC_cluster2_clustal_13
RhinovirusC_cluster2_clustal_14
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RhinovirusC_cluster2_clustal_16
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RhinovirusC_cluster2_clustal_39
RhinovirusC_cluster2_clustal_40

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RhinovirusC_cluster2_clustal_41
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RhinovirusC_cluster2_clustal_78
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RhinovirusC_cluster2_clustal_81
RhinovirusC_cluster2_clustal_82

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RhinovirusC_cluster2_clustal_83
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RhinovirusC_cluster2_clustal_94
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RhinovirusC_cluster2_clustal_100

Adenovirus probes

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Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_1
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Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_4
Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_5
Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_6
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Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_24
Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_25

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Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_26
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Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_47
Adenovirus1_2_5_6_3_4_7_HEXON_complete_clustal_unique_48

Influenza A/California/7/2009

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A_California07_2009_NP_REVCOMPLEMENT_1
A_California07_2009_NP_REVCOMPLEMENT_2
A_California07_2009_NP_REVCOMPLEMENT_3
A_California07_2009_NP_REVCOMPLEMENT_4
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A_California07_2009_NP_REVCOMPLEMENT_15

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Influenza A/Texas/50/2012

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A_Texas50_2012_HA_REVCOMPLEMENT_48

Influenza B/Brisbane/60/2008

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B_Brisbane60_2008_HA_23
B_Brisbane60_2008_HA_24
B_Brisbane60_2008_HA_25
B_Brisbane60_2008_HA_26
B_Brisbane60_2008_HA_27
B_Brisbane60_2008_HA_28
B_Brisbane60_2008_HA_29
B_Brisbane60_2008_HA_30

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B_Brisbane60_2008_HA_46
B_Brisbane60_2008_HA_47
B_Brisbane60_2008_HA_48

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B_Brisbane60_2008_HA_REVCOMPLEMENT_1
B_Brisbane60_2008_HA_REVCOMPLEMENT_2
B_Brisbane60_2008_HA_REVCOMPLEMENT_3
B_Brisbane60_2008_HA_REVCOMPLEMENT_4
B_Brisbane60_2008_HA_REVCOMPLEMENT_5
B_Brisbane60_2008_HA_REVCOMPLEMENT_6
B_Brisbane60_2008_HA_REVCOMPLEMENT_7
B_Brisbane60_2008_HA_REVCOMPLEMENT_8
B_Brisbane60_2008_HA_REVCOMPLEMENT_9
B_Brisbane60_2008_HA_REVCOMPLEMENT_10
B_Brisbane60_2008_HA_REVCOMPLEMENT_11
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B_Brisbane60_2008_HA_REVCOMPLEMENT_13
B_Brisbane60_2008_HA_REVCOMPLEMENT_14
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B_Brisbane60_2008_HA_REVCOMPLEMENT_23

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cagaagttcacctcatctgc
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B_Brisbane60_2008_HA_REVCOMPLEMENT_24
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B_Brisbane60_2008_HA_REVCOMPLEMENT_47
B_Brisbane60_2008_HA_REVCOMPLEMENT_48

Influenza PR8 HA

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tgaattgttcgcatggtagc
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gatgttacattcccaatt
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tgatctcactggaagcagtg
attcattctcagagtttgg
gctcctcatagtcgatgaaa
tgacactgagctcaattgct
ccatgagctttcttgggaa

HA_cds_1
HA_cds_2
HA_cds_3
HA_cds_4
HA_cds_5
HA_cds_6
HA_cds_7
HA_cds_8
HA_cds_9
HA_cds_10
HA_cds_11
HA_cds_12
HA_cds_13
HA_cds_14
HA_cds_15

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taaaaactgctttccctc	HA_cds_17
cgtcagccatagcaaattc	HA_cds_18
tggtgcttactgtagg	HA_cds_19
ctattccgggtaaatctc	HA_cds_20
cttgatcttactttgggt	HA_cds_21
tccagtaatagttcatcctc	HA_cds_22
attagatttccattgcctc	HA_cds_23
tctactcagtcgaaagcat	HA_cds_24
tgatgatgccggacccaag	HA_cds_25
tcatgcattgatgcgttga	HA_cds_26
gtggttgacacttcgtgta	HA_cds_27
gagactgctgttatagctc	HA_cds_28
actgggtgatattctgga	HA_cds_29
tgacgtatttgggcactct	HA_cds_30
taaccatcctcaatttgca	HA_cds_31
aatggacggagtgttcctta	HA_cds_32
ctc aaatagacctctggat	HA_cds_33
ccctcaataaaaccggcaa	HA_cds_34
ttgtaatcccgttaatggc	HA_cds_35
tctcgataacagtggtcacc	HA_cds_36
gtccaaatgtccagaaatcc	HA_cds_37
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tccgatttctttggcattat	HA_cds_40
gtcacacttggttagaact	HA_cds_41
cttacactttccatgcattc	HA_cds_42
gattccaatttcaactccatc	HA_cds_43
cagaatctgatagatcccca	HA_cds_44
tggcgacagttgagtagatc	HA_cds_45
gagacaaaagcaccagtga	HA_cds_46
acatccagaaactgattgcc	HA_cds_47
atgcatattctgcactgcaa	HA_cds_48

Influenza PR8 M2/M1

tacgtttcgaacctcggttag	M2_M1_cds_1
cctgacgggatgatagagag	M2_M1_cds_2
cctgcaaagacatcttcaag	M2_M1_cds_3
aacctcaagatcagtggtct	M2_M1_cds_4
ttgtctttagccattccatg	M2_M1_cds_5
gtcagaggtgacaggattgg	M2_M1_cds_6
cacaaatcctaaaatcccct	M2_M1_cds_7

gcttctatacagtttaact	M2_M1_cds_8
ctgagtgagatttcttggc	M2_M1_cds_9
catacaactggcaagtgac	M2_M1_cds_10
ccatcctgtgtatatgagg	M2_M1_cds_11
caaatgccacttcagtggtc	M2_M1_cds_12
tcacaggtgcacataccag	M2_M1_cds_13
atgctgggagtcagcaatct	M2_M1_cds_14
tcaccatttgctatgagac	M2_M1_cds_15
ctgattagtggattggtgt	M2_M1_cds_16
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tcactcgatccagccattg	M2_M1_cds_18
ctgactagcaacctccatgg	M2_M1_cds_19
ctcatcgcttgaccatttg	M2_M1_cds_20
agctaggtagtgccaatg	M2_M1_cds_21
gatcattttcagaccagca	M2_M1_cds_22
tttctgataggcctgcaaat	M2_M1_cds_23
gatccaatgatatttgcgg	M2_M1_cds_24
gaatccacaatgtcaagtc	M2_M1_cds_25
tcctttcagtcctgatttaa	M2_M1_cds_26
atagactttggcactccttc	M2_M1_cds_27
ctgttcctttcgatattctt	M2_M1_cds_28
aaatgaccatcgtcagcatc	M2_M1_cds_29
gtttttactccagctctat	M2_M1_cds_30

Influenza PR8 NA

actaccagacagattgatcc	NA_cds_1
ccctatttgcaatattaggc	NA_cds_2
ggctaaccatattgagatt	NA_cds_3
atggttttgacttccagttt	NA_cds_4
atgttttggtgcatattcc	NA_cds_5
cccaggtgctattttatag	NA_cds_6
tactactgaagttgtgtcct	NA_cds_7
ccacggatgggacaaagaga	NA_cds_8
gctattgtctttgctgtata	NA_cds_9
ctcctttggaaccaattctt	NA_cds_10
aagggtctcttatgacaaa	NA_cds_11
ggtcagaaaaaggtcctgc	NA_cds_12
cttgcattcagtaaggcac	NA_cds_13
ccttaacagtcccattgaa	NA_cds_14
ctcattaaggccctataagg	NA_cds_15
acatgcacttgctgaccaag	NA_cds_16
ggacctgaaattccgattgt	NA_cds_17

tacagccactgctccattat	NA_cds_18
ttattatgccgttgatatt	NA_cds_19
agactcttgtgtcctcaata	NA_cds_20
gaaccatttacacaggcaca	NA_cds_21
ggccatcagtcattatagta	NA_cds_22
aaattttgtacgaggccagc	NA_cds_23
tttagtaaccttcccctttt	NA_cds_24
taggtgcattcaactctatt	NA_cds_25
gaacattcctcatagtgaga	NA_cds_26
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tcctatttgataatccaggt	NA_cds_29
cgaaaaccccactgcagatg	NA_cds_30
aaaatccctttactccgttt	NA_cds_31
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tataccctgaccaatcagtc	NA_cds_38
ctgttagctcaggatgttga	NA_cds_39
cacggcctcatcagcttag	NA_cds_40
gccaagaccaatctacagta	NA_cds_41
aatggcaactcagcaccgtc	NA_cds_42
aacagactactgtcaatgc	NA_cds_43

Influenza PR8 NEP/NS1

ggatccattatgtctttgtc	NEP_NS1_cds_1
ctgaaagcttgacacagtg	NEP_NS1_cds_2
tagttcttggctgcaactc	NEP_NS1_cds_3
gatcaaggaatggggcatca	NEP_NS1_cds_4
gatttctgatctcggcgaag	NEP_NS1_cds_5
cactatctgctttccagcac	NEP_NS1_cds_6
attcttcttcagaatccgc	NEP_NS1_cds_7
gtcattttaagtgccctatc	NEP_NS1_cds_8
tgtcagttaggtaacgac	NEP_NS1_cds_9
ccttgacatttctcaagag	NEP_NS1_cds_10
attctgatacaaagaggcc	NEP_NS1_cds_11
gccggtcaaaaatcacactg	NEP_NS1_cds_12
gcccttagcaatattagagt	NEP_NS1_cds_13
aatttcgccaacaattgctc	NEP_NS1_cds_14

ctggaagagaaggcaatggt	NEP_NS1_cds_15
ttgacatcctcagcagtatg	NEP_NS1_cds_16
gatgaggactccaactgcat	NEP_NS1_cds_17
ttcagagactcgaactgtgt	NEP_NS1_cds_18
tccaagcgaatctctgtaga	NEP_NS1_cds_19
gtctcccattctcattactg	NEP_NS1_cds_20
gtttctgttttgagtgagt	NEP_NS1_cds_21
gcaatagatgtaaggcttgc	NEP_NS1_cds_22
aagttcttatctcttgctcc	NEP_NS1_cds_23

Influenza PR8 NP

cactcagtgagtgattatct	NP_cds_1
tgggacgccatgattttgat	NP_cds_2
atctgttcgtaagaccgttt	NP_cds_3
tgatttcagtggcattctgg	NP_cds_4
atcattttccgacggatgc	NP_cds_5
gtagaatcgtccaattccac	NP_cds_6
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ctctctattgttaagctgtt	NP_cds_9
gtcaaaagcagagagcacca	NP_cds_10
ccagttttcttaggatcttt	NP_cds_11
tactctcctgtatataggtc	NP_cds_12
tcgtcaccattattagcttg	NP_cds_13
atgccagatcatcatgtgag	NP_cds_14
tcctctgataagttgcatca	NP_cds_15
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acctcctagggagagttgaa	NP_cds_18
gtttgatcatcctgaccaat	NP_cds_19
gaagttccgatcattgatcc	NP_cds_20
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ttccctttgagaatgttgc	NP_cds_22
ctttttgtgcagcagtttga	NP_cds_23
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cttccatcatccttatgat	NP_cds_45
agacacatcttctggtcttg	NP_cds_46
tttctccgagagctcgaag	NP_cds_47
caaaggaaggcacgatcggg	NP_cds_48

Influenza PR8 PA

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gattgaagcattgtcgaca	PA_cds_2
aagtgagtcatattgctgc	PA_cds_3
tacgattattgactcgcctt	PA_cds_4
tcttccctcgattatttcaa	PA_cds_5
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ccattcggagcttaagtgg	PA_cds_18
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cttgcttccatgacagaaga	PA_cds_23

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agcagtttcttgattcagc	PA_cds_45
aatcaggcactcctcaattg	PA_cds_46
gcattaagcaaaaccaggg	PA_cds_47
caaatagtagcactgccaca	PA_cds_48

Influenza PR8 PB1

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tactgatgtgtcctgttgac	PB1_cds_4
catcaatcggggtgagttgc	PB1_cds_5
acttggttcattgtcttctg	PB1_cds_6
ctactcgtgttgctgaaca	PB1_cds_7
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aaggaagtctatgagccttc	PB1_cds_11
tcattgactccattacatcc	PB1_cds_12
tcattgtgttcagggtcaat	PB1_cds_13
gccagtgctcaaaaagta	PB1_cds_14
caaccctgattgttcaagtt	PB1_cds_15

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gggtgcattcacaatcagag	PB1_cds_31
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tggtcttctgtatgaactgc	PB1_cds_45
tcaatccgtgcatcaattcg	PB1_cds_46
gctcttcaatggtggaacag	PB1_cds_47
attcactattttgccgtct	PB1_cds_48

Influenza PR8 PB2

gcgagactgacgacattagat	PB2_cds_1
cggtgggttttgtgagtatc	PB2_cds_2
ctctgtctgctgtaattgg	PB2_cds_3
ttgctcatttctctcaggaa	PB2_cds_4
gatcctgcatcattcatttt	PB2_cds_5
aaatggacaggccaaaggt	PB2_cds_6
tccgacgtatttgacttgg	PB2_cds_7

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