

(別表1) INNとの整合性が図られる可能性のあるもの

(平成18年3月31日薬食審査発第0331001号厚生労働省医薬食品局審査管理課長通知に示す別表1)

登録番号 302-4-A2

JAN (日本名) : トジナメラン

JAN (英名) : Tozinameran

核酸配列

GAGAAAYAAAC YAGYAYYCY YGGYCCCCA CAGACYCAGA GAGAACCCGC 50
 CACCAYGYYC GYGYCCYGG YGCGCYGCC YCYGGYGYCC AGCCAGYGYG 100
 YGAACCYGAC CACCAGAACA CAGCYGCCYC CAGCCYACAC CAACAGCYYY 150
 ACCAGAGGCG YGYACYACC CGACAAGGYG YCAGAYCCA GCGYGCYGCA 200
 CYCYACCCAG GACCYGYCC YGCCYYCY YCAGCAACGYG ACCYGGYYCC 250
 ACGCCAYCCA CGYGYCCGG ACCAAYGGCA CCAAGAGAYY CGACAACCCC 300
 GYGCYGCCCY YCAACGACGG GGYGYACY YGCCAGCACCG AGAAGYCCAA 350
 CAYCAYCAGA GGCYGGAYCY YCGGCACCAC ACYGGACAGC AAGACCCAGA 400
 GCCYGCYGAY CGYGAACAAC GCCACCAACG YGGYCA YCAA AGYGYGCGAG 450
 YYCCAGYYCY GCAACGACCC CYCCYGGGC GYCYACYACC ACAAGAACAA 500
 CAAGAGCYGG AYGGAAAGCG AGYCCGGGY GYACAGCAGC GCCAACAACY 550
 GCACCYYCGA GYACGYGYCC CAGCCYYCC YGAYGGACCY GGAAGGCAAG 600
 CAGGGCAACY YCAAGAACCY GCGCGAGYYC GYGYAAGA ACAYCGACGG 650
 CYACYCAAG AYCAYCAGCA AGCACACCCC YAYCAACCYC GYGCGGGAYC 700
 YGCCYAGGG CYCYCYG YGGAACCCC YGGYGGAYCY GCCCAYCGGC 750
 AYCAACAYCA CCCGGYYCA GACACYGCGY GCCCYGCACA GAAGCYACCY 800
 GACACCYGGC GAYAGCAGCA GCGGAYGGAC AGCYGGYGCC GCCGCYYACY 850
 AYGYGGGCA CCGGAGCCY AGAACCYYCC YGCGAAGYA CAACGAGAAC 900
 GGCACCAYCA CCGACGCGY GGAYYGYG YGCGAYCCYC YGAGCGAGAC 950
 AAAGYGCACC CYGAAGYCC YCACCYGGG AAAGGGCAYC YACCAGACCA 1000
 GCAACYCCG GYGCAGCCC ACCGAYCCA YCGYCGGY CCCCAYAYC 1050
 ACCAAYCYG GCCCYCCG CGAGGYGYC AAYGCCACCA GAYYCGCCYC 1100
 YGYGACGCC YGGAACCGGA AGCGGAYCAG CAAYYCGYG GCCGACYACY 1150
 CCGYGCYGYA CAACYCCGCC AGCYCAGCA CCYCAAGYG CYACGGCGYG 1200
 YCCCCYACCA AGCYGAACGA CCYGYGYYC ACAAACGYG ACGCCGACAG 1250
 CYCGYGAYC CGGGGAGAYG AAGYCGGCA GAYYCCCCY GGACAGACAG 1300
 GCAAGAYCGC CGACYACAAC YACAAGCYG CCGACGACY CACCGCYGY 1350
 GYGAYYGCCY GGAACAGCAA CAACCYGGAC YCAAAGYCG GCGGCAACYA 1400
 CAAYYACCY YACCGCYGY YCCGGAAGY CAAYCYGAAG CCCYCGAGC 1450
 GGGACAYCY CACCGAGAYC YAYCAGGCC GCAGCACCCC YGYAACGGC 1500

GYGGAAGGCY YCAACYGCIYA CIYCCCACYG CAGYCCYACG GCYIYCAGCC 1550
CACAAAYGGC GYGGGCYAYC AGCCCYACAG AGYGGYGGYG CYGAGCIYCG 1600
AACYGCYGCA YGCCCCYGCC ACAGYGYGCG GCCCYAAGAA AAGCACCAAY 1650
CYCGYGAAGA ACAAAYGCGY GAACYYCAAC YICAACGGCC YGACCGGCAC 1700
CGGCGYGCYG ACAGAGAGCA ACAAGAAGYY CCYGCCAYYC CAGCAGIYYG 1750
GCCGGGAYAY CGCCGAYACC ACAGACGCCG YYAGAGAYCC CCAGACACYG 1800
GAAAYCCYGG ACAYCACCCC YYGCAAGCIYC GGCGGAGYGY CIYGYGAYCAC 1850
CCCYGGCACC AACACCAGCA AYCAGGYGGC AGYGCYGYAC CAGGACGYGA 1900
ACYGYACCGA AGYGCCCGYG GCCAYYCAGC CCGAYCAGCY GACACCIYACA 1950
YGGCGGGYGY ACYCCACCGG CAGCAAYGYG YIYCAGACCA GAGCCGGCIY 2000
YCIYAYCGGA GCCGAGCACG YGAACAAYAG CIYACGAGYGC GACAYCCCCA 2050
YCGGCIYGG AAYCIYGCGCC AGCIYACCAGA CACAGACAAA CAGCCCIYCGG 2100
AGAGCCAGAA GCIYGGCCAG CCAGAGCIYC AYYGCCYACA CAAYGIYCIY 2150
GGGCGCCGAG AACAGCIYGG CCYACYCCA CAACYCIYAC CIYAYCCCCA 2200
CCAACYIYAC CIYACGCIY ACCACAGAGA YCCIYGCCYGY GIYCCAYGACC 2250
AAGACCAGCG YGGACYGCAC CIYGIYACAY YGCGGCGAYY CCACCGAGY 2300
CIYCCAACCIY CIYCIYGCAGY ACGGCAGCIY CIYGCACCCAG CIYGAAYAGAG 2350
CCCIYACAGG GAYCGCCGYG GAACAGGACA AGAACACCCA AGAGGIYGIY 2400
GCCCAAGYGA AGCAGAYCIY CAAGACCCCIY CCYAYCAAGG ACYIYCGGCGG 2450
CIYCAAYIYC AGCCAGAYY YGCCCGAYCC YAGCAAGCCC AGCAAGCGGA 2500
GCIYCIYCGA GGACCIYCIY YICAACAAAG YGACACYGGC CGACGCCGGC 2550
YIYCAIYAGC AGYAYGGCGA YYGCIYGGGC GACAYYGGC CCAGGGAYCIY 2600
GAYIYGCGCC CAGAAGYIYA ACGGACYGAC AGYGCYGCC CIYCIYCIYGA 2650
CCGAYGAGAY GAYCGCCAG YACACAYCIY CCCYCIYGGC CGGCACAAY 2700
ACAAGCGCIY GGACAYIYG AGCAGGCGCC GCIYCIYCGA YCCCCIYYGC 2750
YAYGCAGAY GCCYACCGY YCAACGGCIY CGGAGYGACC CAGAAYGIY 2800
YGYACGAGAA CCAGAAGCIY AYCGCCAAC AGYIYCAACAG CGCCAYCGGC 2850
AAGAYCCAGG ACAGCCYAG CAGCACAGCA AGCGCCCIY GAAAGCIYCA 2900
GGACGIYGGY AACCAGAAY CCCAGGCACY GAACACCCY GIYCAAGCAGC 2950
YGIYCCYCAA CIYCGGCGCC AYCAGCIY YGIYGAACGA YAYCCYGAGC 3000
AGACYGGACC CIYCCYAGGC CGAGGIYCGA AYCAGACAGC YGAYCACAGG 3050
CAGACYGCG AGCCYCCAGA CIYACGIYCC CAGCAGCIY AYCAGAGCCG 3100
CCGAGAYYAG AGCCCIYGCC AAYCIYGGCC CCACCAAGAY GIYCIYAGYGY 3150
GIYCIYGGCC AGAGCAAGAG AGYGGACYIY YGCGGCAAGG GIYACCACCIY 3200
GAYGAGCIY CCYAGYCIY CCCCYACGG CGIYGGYGIY CIYGCACGIYGA 3250
CAIYAYGIY CGCIYCAAGAG AAGAAYIYCA CCACCGCIY AGCCAYCIY 3300
CACGACGGCA AAGCCACIY YCCIYAGAGAA GGCGYGIYCG YGIYCAACGG 3350
CACCCAYYGG YIYGIYACAC AGCGGAACIY CIYACGAGCC CAGAYCIYCA 3400
CCACCGACAA CACCYIYGIY YCIYGGCAACIY GCGACGIYGIY GIYCGGCIY 3450
GIYGAACAAYA CCGYGIYACGA CCCCIYGCGA CCGAGCIYGG ACAGCIYCAA 3500

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AGAGGAACYG GACAAGYACY YYAAGAACCA CACAAGCCCC GACGYGGACC 3550
YGGGCGAYAY CAGCGGAAAYC AAYGCCAGCG YCGYGAACAY CCAGAAAGAG 3600
AYCGACCGGC YGAACGAGGY GGCCAAGAAAY CYGAACGAGA GCCYGAYCGA 3650
CCYGCAAGAA CYGGGGAAGY ACGAGCAGYA CAYCAAGYGG CCCYGGYACA 3700
YCYGGCYGGG CYYYAYCGCC GGACYGAYYG CCAYCGYGAY GGYCACAAAYC 3750
AYGCGYGYYY GCAYGACCAG CYGCGYAGC YGCCYGAAGG GCYGYGYAG 3800
CYGYGGCAGC YGCGYCAAGY YCGACGAGGA CGAYYCYGAG CCCGYGCGYA 3850
AGGGCGYGAA ACYGCACYAC ACAYGAYGAC YCGAGCYGGY ACYGCAYGCA 3900
CGCAAYGCYA GCYGCCCCYY YCCCGYCCYG GGYACCCCGA GYCYCCCCCG 3950
ACCYCGGGYC CCAGGYAYGC YCCCACCYCC ACCYGCCCCA CYCACCACCY 4000
CYGCGYAGYYC CAGACACCYC CCAAGCACGC AGCAAYGCAG CYCAAAACGC 4050
YYAGCCYAGC CACACCCCCA CGGGAAACAG CAGYGAYYAA CCYYYAGCAA 4100
YAAACGAAAG YYYAACYAAG CYAYACYAAC CCCAGGGYYG GYCAAYYYCG 4150
YGCCAGCCAC ACCCYGGAGC YAGCAAAAAA AAAAAAAAAA AAAAAAAAAA 4200
AAAAGCAYAY GACYAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA 4250
AAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAA 4284

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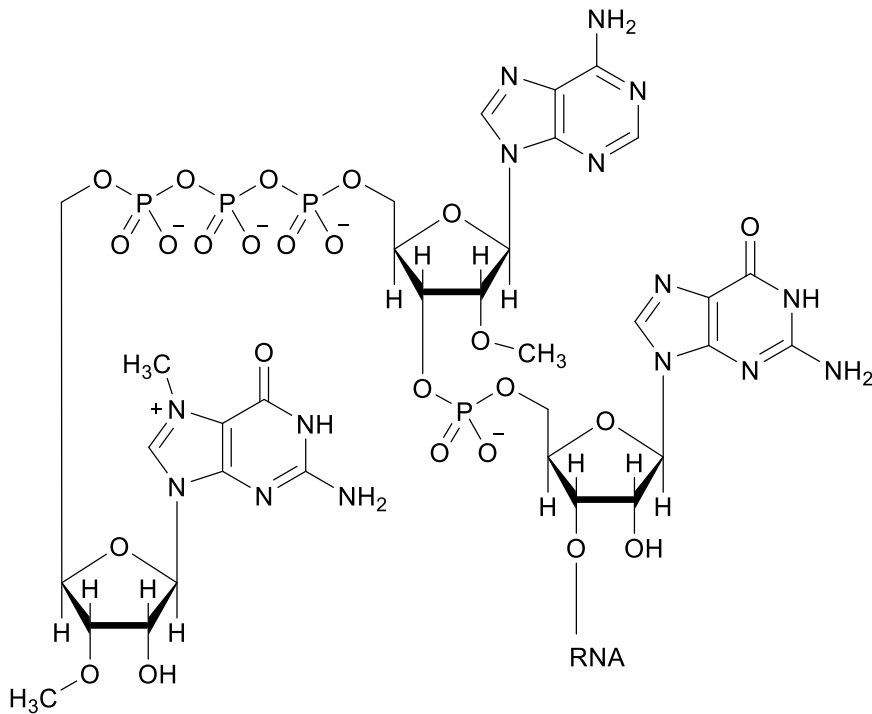
A = アデノシン ; C = シチジン ; G = グアノシン ; Y = N¹-メチルシュードウリジン

1-3 : 5'キャップ構造部分

55-3879 : 翻訳領域

4175-4204, 4215-4284 : ポリ A 転写スリップ

5'キャップ構造部分



トジナメランは、SARS-CoV-2のスパイクタンパク質類縁体 (Lys986Pro, Val987Pro) 全長をコードするmRNAである。トジナメランは、5'キャップ構造及びポリA配列を含み、全てのウリジン残基がN¹-メチルシュードウリジン残基に置換された、4284個のヌクレオチド残基からなる1本鎖RNAである。

Tozinameran is a mRNA encoding full length of spike protein analog (Lys986Pro, Val987Pro) of SARS-CoV-2. Tozinameran is a single-stranded RNA consisting of 4284 nucleotide residues including the 5' cap structure and poly A sequence in which all uridine residues are replaced by N¹-methylpseudouridine residues.

※ JAN 以外の情報は、参考として掲載しました。