

論文より、プライマー・プローブ配列と位置

<https://www.medrxiv.org/content/10.1101/2021.04.20.21255480v2>

ご使用のPCR 機器で検出できる蛍光色素に変更して合成を承ります。

L452R_FWD CTCTCTCAAAGGTTTGAGATTAGACT
相補配列 : AGTCTAATCTCAAACCTTTTGAGAGAG
L452R_REV CTTGATTCTAAGTTGGTGGTAA
L452R_MT_HEX CCTAAACAATCTATACCGGTAATT
相補配列 : AATTACCGGTATAGATTGTTTAGG

>wuhCor1_dna range=NC_045512v2:22853-22991
GGCTGCGTTATAGCTTGGAAATTCTAACAACTTTGATTCTAAGGTTGGTGGTAATTATAATTACC
TGTATAGATTGTTTAGGAGTCTAATCTCAAACCTTTTGAGAGAGATATTTCAACTGAAATCTA
TCAGGCCGGTA

E484K_FWD CTGAAATCTATCAGGCCGGTA
E484K_REV GAAAGTACTACTACTCTGTATGG
相補配列 : CCATACAGAGTAGTAGTACTTTC
E484K_MT_CY5 CTTGTAATGGTGTAAAGGTTT
N501Y_MT_FAMb TTTCCAACCCACTTATGGT
N501_WT_CY3.5b TTTCCAACCCACTAATGGT

>wuhCor1_dna range=NC_045512v2:22921-23153
TAGATTGTTTAGGAAGTCTAATCTCAAACCTTTTGAGAGAGATATTTCAACTGAAATCTATCAG
GCCGGTAGCACACCTTGTAATGGTGTGAAGGTTTAAATTGTTACTTTCCTTTACAATCATATG
GTTTCCAACCCACTAATGGTGTTGGTTACCAACCATACAGAGTAGTAGTACTTCTTTTGAAC
TTCTACATGCACCAGCAACTGTTTGTGGACCTAAAAAGTCTA

Supplementary Table 3. Multiplex RT-PCR Reagents and Concentrations

Reagent	Stock Concentration	Volume (μ L)	PCR Reaction Concentration
L452R_FWD	9000 nM	1.0 ^a	360 nM
L452R_REV	9000 nM	-	360 nM
E484K_FWD	9000 nM	-	360 nM
E484K_REV	9000 nM	-	360 nM
L452R_MT_HEX	2000 nM	-	80 nM
E484K_MT_CY5	2000 nM	-	80 nM
N501Y_MT_FAM	2000 nM	-	80 nM
N501_WT_CY3.5	2000 nM	-	80 nM
SuperScript™ III Platinum™ One-Step qRT-PCR Kit 2X Mix ^b	2X	12.5	1X
SuperScript™ III Platinum™ One-Step qRT-PCR Kit Taq Mix ^b	-	0.5	-
Nuclease-free Water	-	6.0	-
Template ^c	-	5.0	-
Total	-	25.0	-

MT, mutant; WT, wild-type; nM, nanomolar.

^a 1.0 μ L primer/probe mix at stock concentrations listed above.

^b Catalog Numbers 11732-020 and 11732-088

^c Wild-type TWIST whole-genome synthetic RNA control, pooled mutant amplicon control (Supplementary Table 2), or extracted nucleic acids from clinical upper respiratory swabs.