Gene Engineering Division
RIKEN BioResource Research Center

RIKEN DNA BANK host name : ML14

● **Clone ID** : RDB _ 15932

● **Lot** : 15932 _ A8Ea

● **Form** : Recombinant in Stab agar

● **Culture** : 37°C, LB (Free)

Use appropriate media when using for experiments.

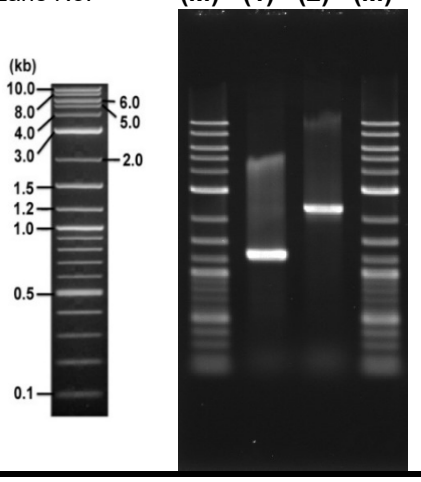
● **Primers** Please refer to depositor's primer list (**PMID:26577727, Table 4**) for primer sequences.

Primer A	:	tyrA.ext.F	(Pr 704)	Primer K	:	-	-
Primer B	:	tyrA.ext.R	(Pr 705)	Primer L	:	-	-
Primer C	:	-	-	Primer M	:	-	-
Primer D	:	-	-	Primer N	:	-	-
Primer E	:	-	-	Primer O	:	-	-
Primer F	:	-	-	Primer P	:	-	-
Primer G	:	-	-	Primer Q	:	-	-
Primer H	:	-	-	Primer R	:	-	-
Primer I	:	-	-	Primer S	:	-	-
Primer J	:	-	-	Primer T	:	-	-

● **PCR Amplification** The lane to which the 250ng/well 1kb Plus Ladder (NEB#N3200) marker is applied is indicated as **(M)**.

15932

Lane No. **(M) (1) (2) (M)**



<Condition and Reaction program>

template : genomic DNA 1 µL

Enzyme : AmpliTaq Gold® 360 DNA Polymerase (Thermo Fisher)

total volume : 10 µL

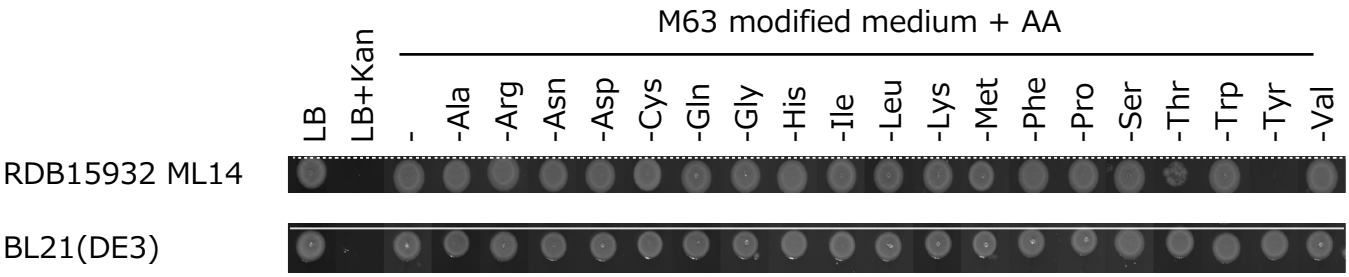
96 deg C	2 min	
96 deg C	15 sec	x 33 cycles
55 deg C	15 sec	
72 deg C	3 min	
72 deg C	5 min	
4 deg C	∞	(2), 2.3 kb

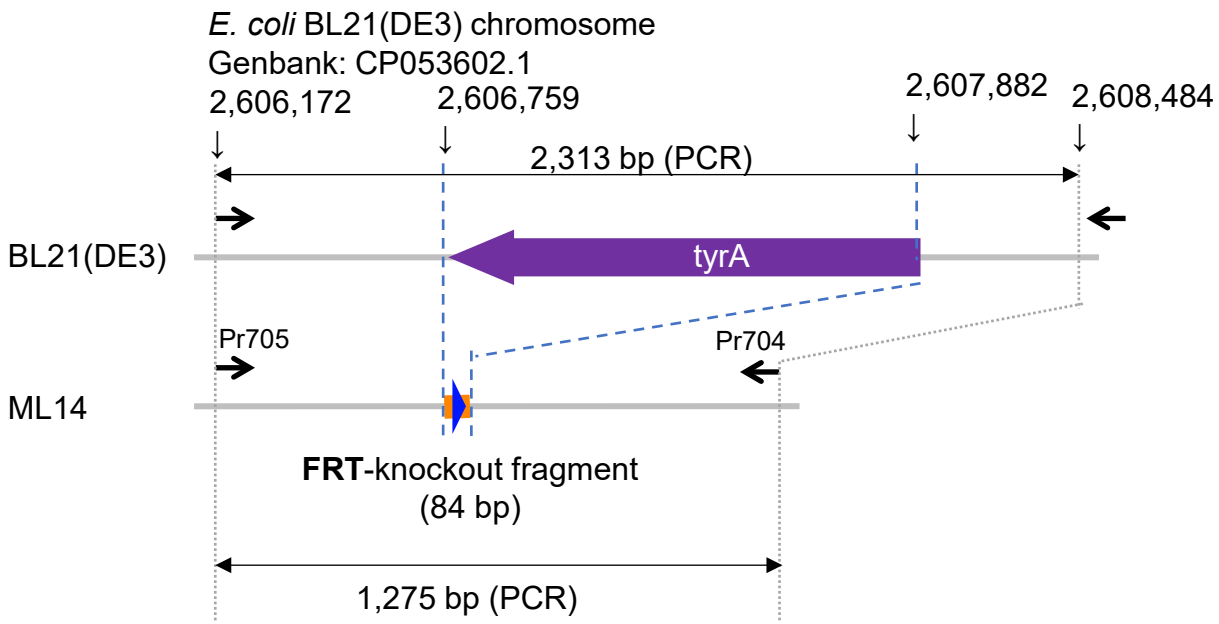
◆ **Lane number and size of fragment** BL21(DE3) has used as a control.

Templete \ Confirmed deletion		***tyrA***	**-**	**-**	**-**	**-**
		Primer A + B	-	-	-	-
host	**RDB15932**	(1), 1.3 kb	-	-	-	-
	BL21(DE3)	(2), 2.3 kb	-	-	-	-

Templete \ Confirmed deletion		**-**	**-**	**-**	**-**	**-**
		-	-	-	-	-
host	**RDB15932**	-	-	-	-	-
	BL21(DE3)	-	-	-	-	-

GED, RIKEN BRC, Nov. 01 2025


M63 modified medium + AA
LB
LB+Kan
-
-Ala
-Arg
-Asn
-Asp
-Cys
-Gln
-Gly
-His
-Ile
-Leu
-Lys
-Met
-Phe
-Pro
-Ser
-Thr
-Trp
-Tyr
-Val
RDB15932 ML14
BL21(DE3)


E. coli BL21(DE3) chromosome
Genbank: CP053602.1
2,606,172
2,606,759
2,607,882
2,608,484
2,313 bp (PCR)
BL21(DE3)
tyrA
Pr705
Pr704
ML14
FRT-knockout fragment
(84 bp)
1,275 bp (PCR)