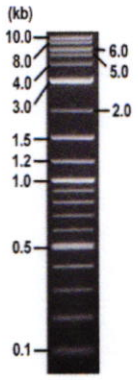
Gene Engineering Division
RIKEN BioResource Research Center

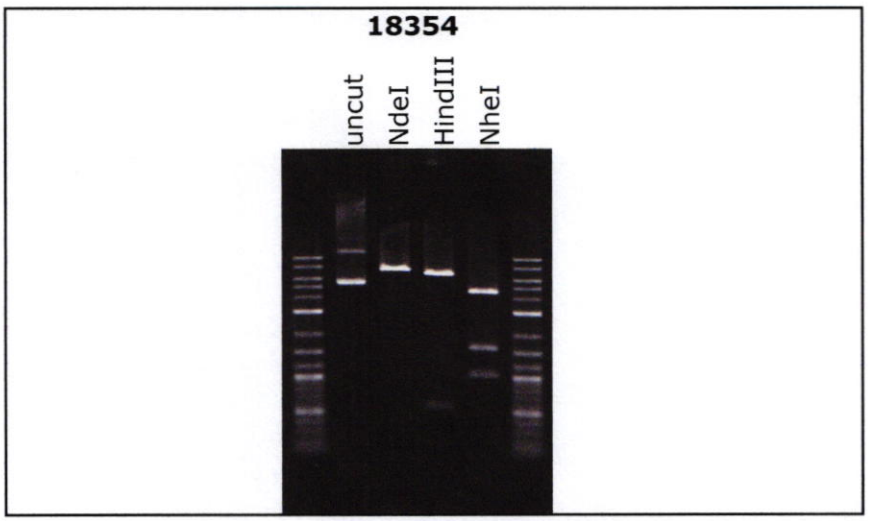
RIKEN DNA BANK clone name : CTCF-mAC donor (Hygro)

- **Clone ID** : RDB _ 18354
- **Lot** : 18354 _ B2Ha
- **DNA Concentration** : 25 nanogram/microliter
- **Volume** : 40 microliter
- **Form** : DNA solution in TE buffer
- **Host** : DH5 alpha
- **Culture** : LB medium
- **Antibiotics** : 100 microgram/ml Ampicillin
- **Purification** : QIAGEN QIAprep Spin Miniprep kit

- **Digestion by restriction enzyme**

1 kb Plus DNA Ladder (NEB#N3200L), 250 ng/well





Electrophoresis : 100 nanogram DNA per lane ; 1% agarose gel , 1 x TAE Buffer

Restriction enzyme		Expected size of fragment	
NdeI	:	**7.3**	kbp
HindIII	:	**6.7, 0.6**	kbp
NheI	:	**4.6, 1.6, 1.0**	kbp
	:		kbp

- **Confirmation of the insertion sequence**

Please be sure to check our sequence analysis results before your request.

Sequence name	Primer ID	Primer name	Confirmed feature
Sequence - A	Pr0743	EGFP-M_R	insert mid(mClover 5',mAID 3')
Sequence - B	Pr0894	mPGKter_F	insert 3'(loxP.2,CTCF homology arm.2)
Sequence - C	Pr0243	PGK_N_rev	insert mid(SV40 pA,mClover 3')
Sequence - D	Pr0249	PGKpro_F	insert mid(HygR)
Sequence - E	Pr0739	pUC-CAPbs_up_F2	insert 3'(CTCF homology arm.2, loxP.2,mPGK ter)
Sequence - F	Pr0310	pUC-M13_-100	insert 5'(T7 pro,CTCF homology arm.1,mAID 5')
Sequence - G	Pr0127	YFP_R	insert 5'(mClover 5',mAID,CTCF homology arm.1)
Sequence - H	-	-	-

APPROVED BY :

確認 22.9.28 岸川

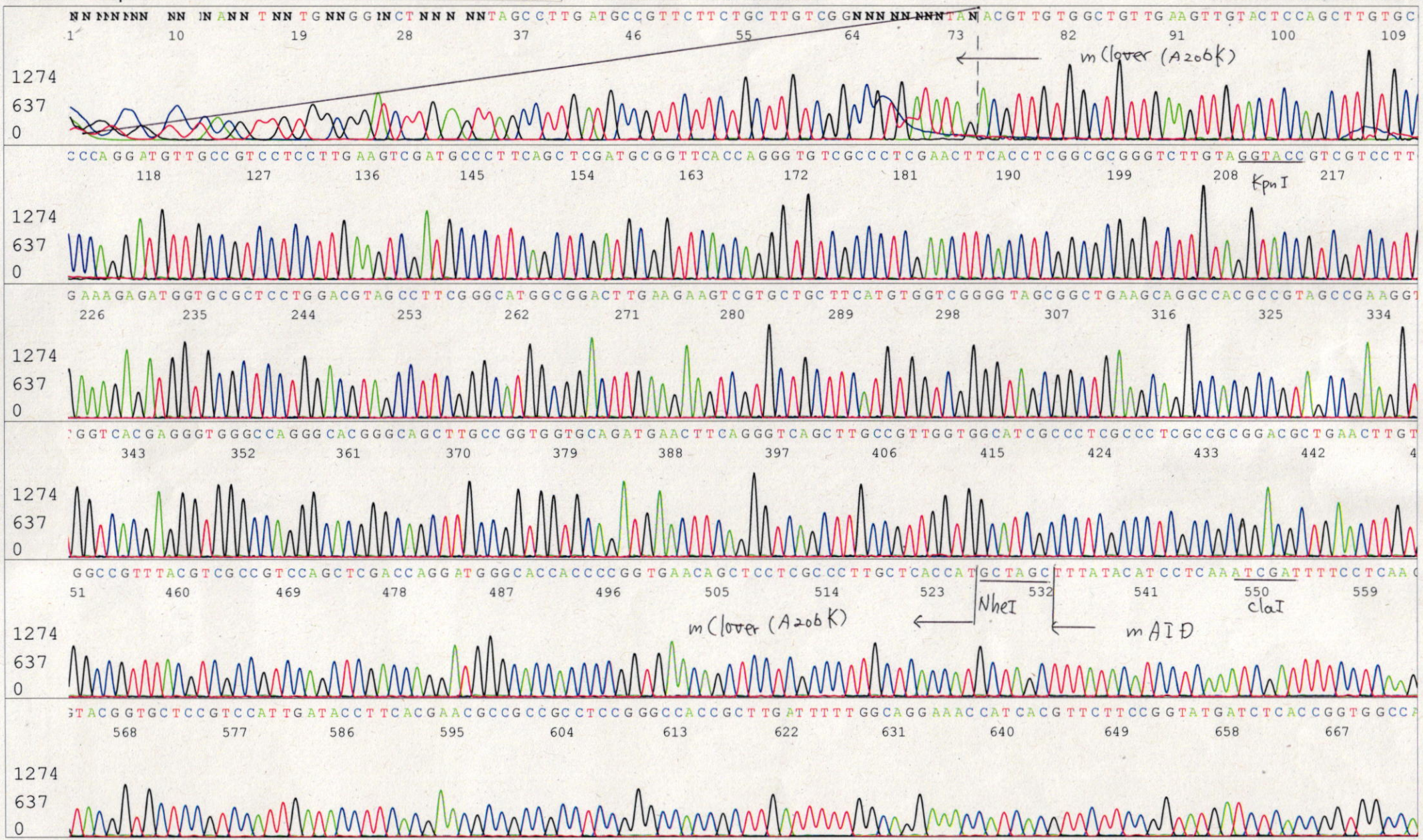
Applied Biosystems

D07105C4_B2Ha_3_EGFP-M_R_D01_10_ABI24
D07105C4_B2Ha_3_EGFP-M_R
KB_3500_POP7_BDTv3.mob
Pts 1476 to 13555 Pk1 Loc:1453
Version 6.0 HiSQV Bases: 944

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku

S/N G:268 A:127 T:147 C:184
KB.bcp
KB 1.4.1.8 Cap:10

primer name A : EGFP-M_R
5' TGTTCTGCTGGTAGTGGTCG3'



Applied Biosystems

S/N G:268 A:127 T:147 C:184
KB.bcp
KB 1.4.1.8 Cap:10

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D07105C4_B2Ha_3_EGFP-M_R
KB_3500_POP7_BDTv3.mob
Pts 1476 to 13555 Pk1 Loc:1453
Version 6.0 HiSQV Bases: 944

Inst Model/Name 3500/3500 Instrument
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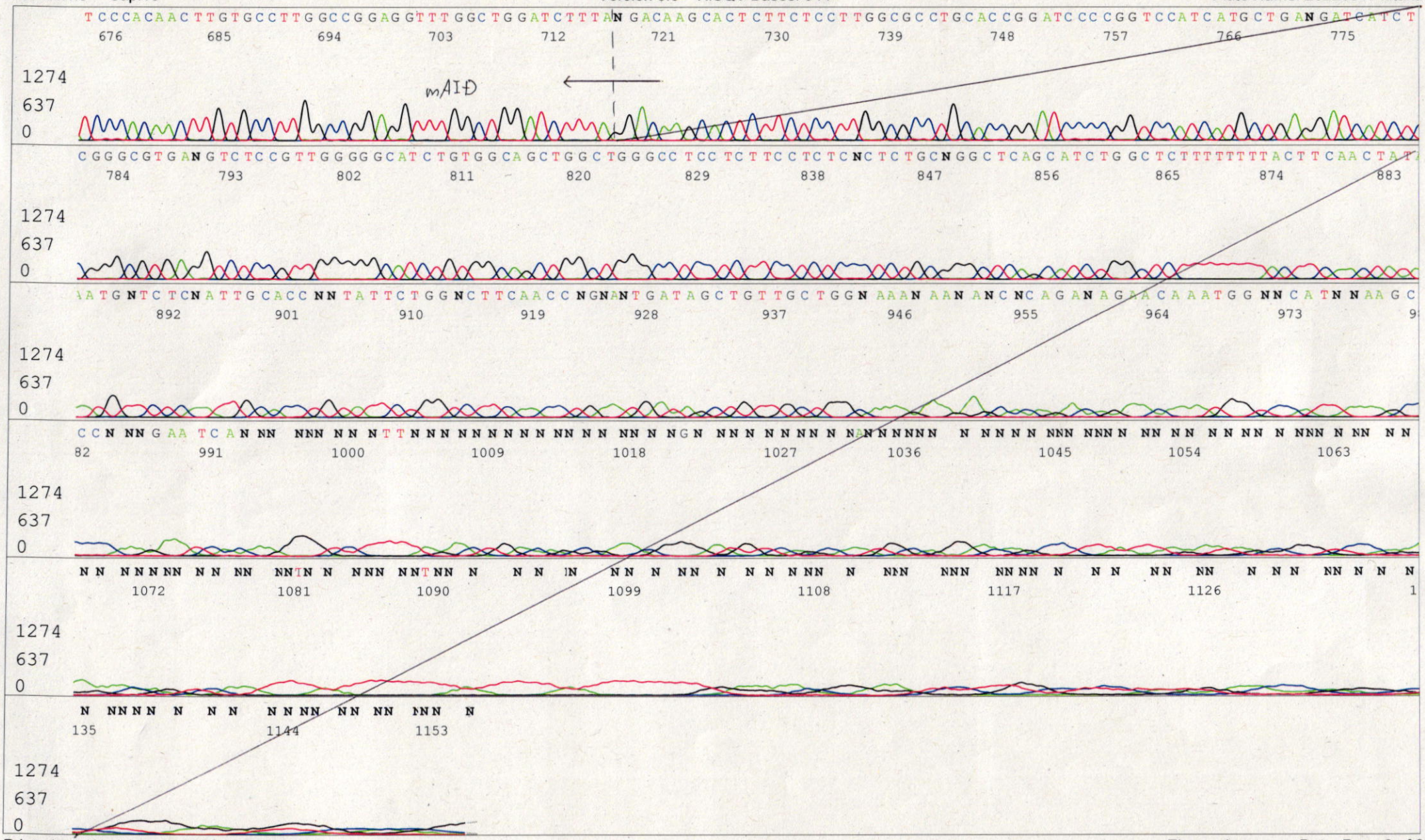
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku



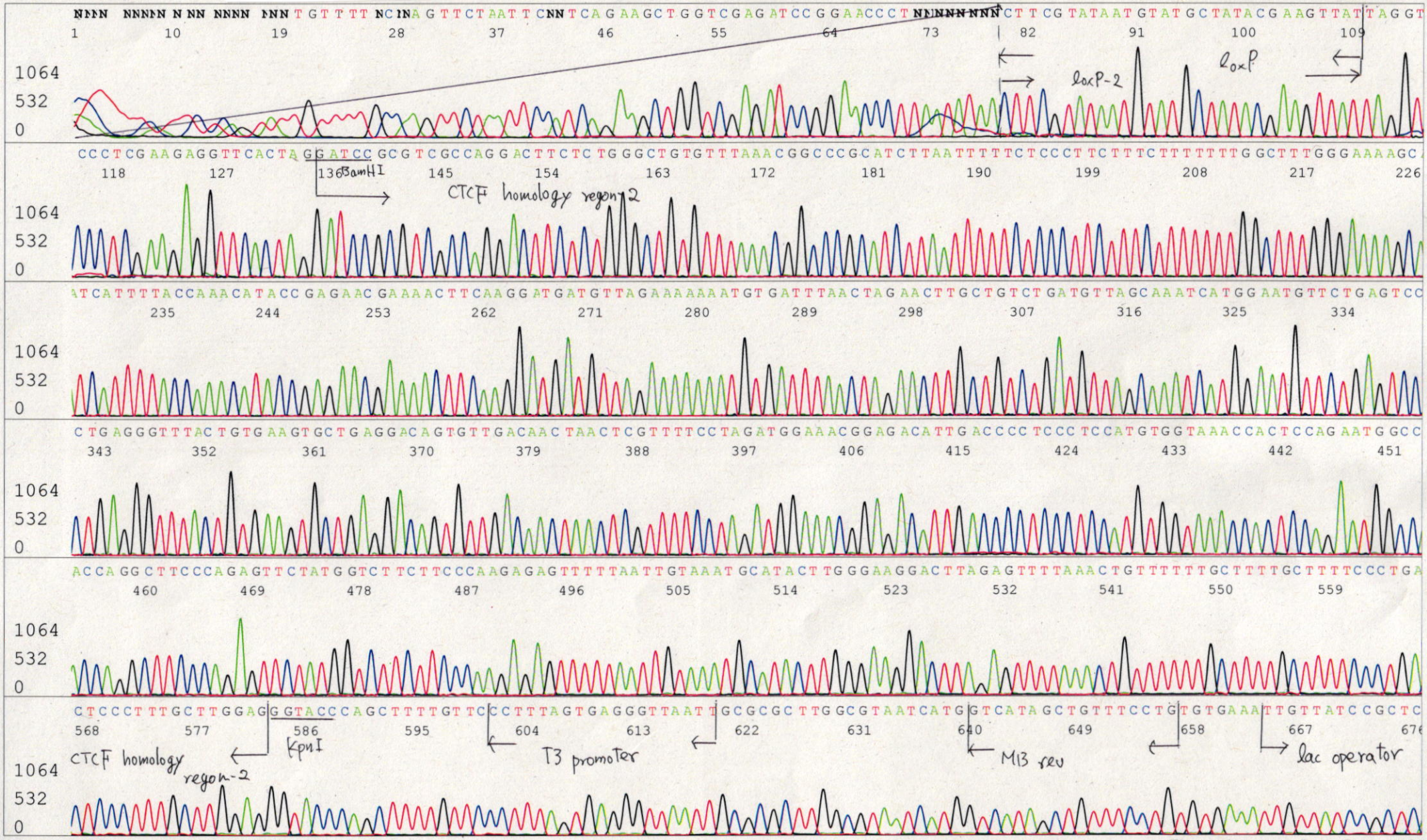
Applied Biosystems

S/N G:203 A:202 T:208 C:192
KB.bcp
KB 1.4.1.8 Cap:4

primer name B : mPGKter_F
5'- AGAACGAGATCAGCAGCCTC -3'

D07105C4_B2Ha_3_mPGKter_F_B01_04_ABI24
D07105C4_B2Ha_3_mPGKter_F
KB_3500_POP7_BDTv3.mob
Pts 1428 to 13592 Pk1 Loc:1405
Version 6.0 HiSQV Bases: 945

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.16 Pts/Panel1350
Plate Name: 20220817 kitaku



Applied Biosystems

S/N G:203 A:202 T:208 C:192
KB.bcp
KB 1.4.1.8 Cap:4

D07105C4_B2Ha_3_mPGKter_F_B01_04_ABI24
D07105C4_B2Ha_3_mPGKter_F
KB_3500_POP7_BDTv3.mob
Pts 1428 to 13592 Pk1 Loc:1405
Version 6.0 HiSQV Bases: 945

Inst Model/Name 3500/3500 Instrument
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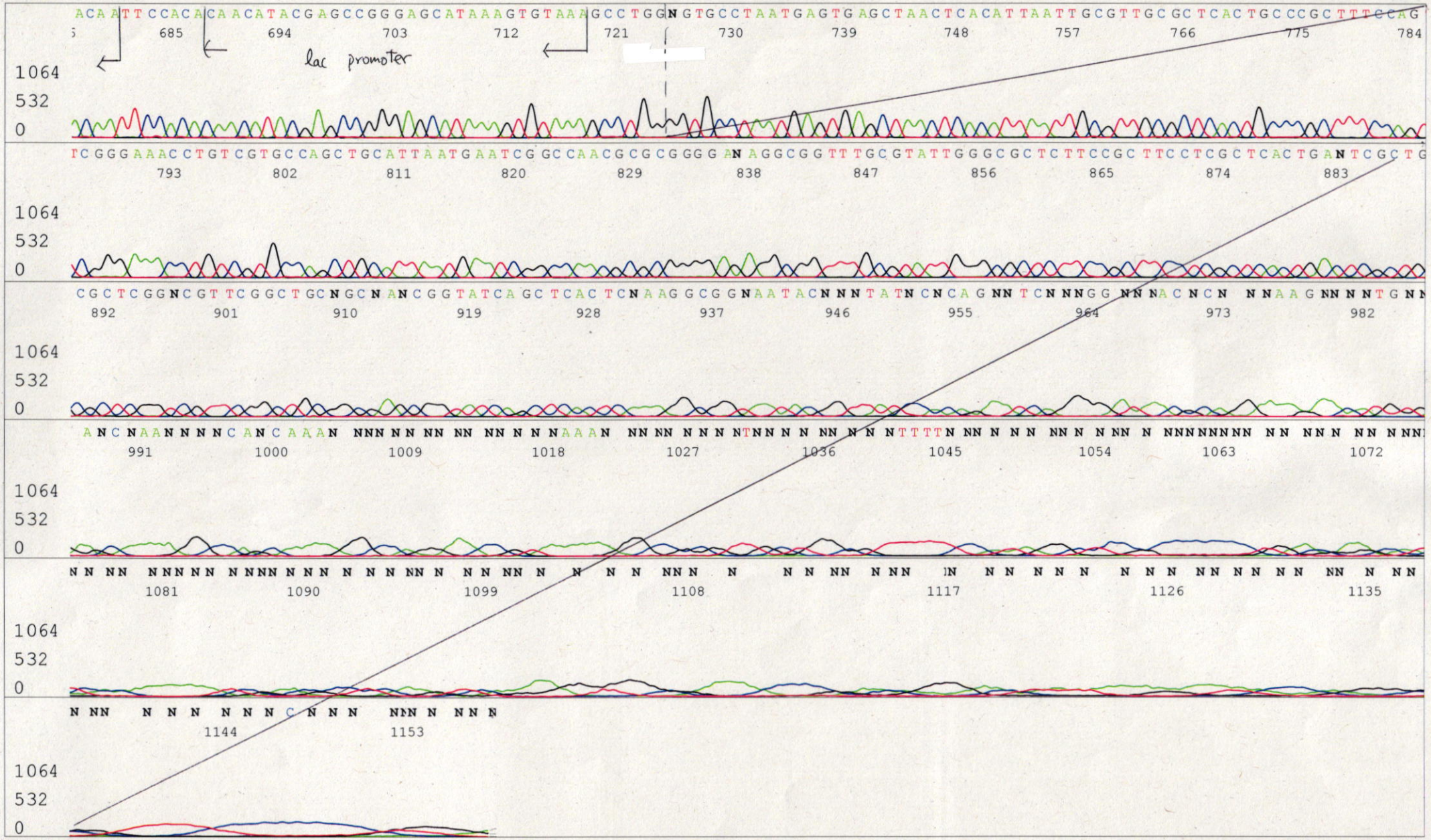
Spacing:12.16 Pts/Panel1350
Plate Name: 20220817 kitaku



Printed on: Wed Aug 17,2022 03:57PM, JST

Applied Biosystems

S/N G:208 A:136 T:164 C:130
KB.bcp
KB 1.4.1.8 Cap:13

primer name C : PGK_N_rev
5'- TGCTAAAGCGCATGCTC-3'

D07105C4_B2Ha_3_PGK_N_rev_E01_13_ABI24
D07105C4_B2Ha_3_PGK_N_rev
KB_3500_POP7_BDTv3.mob
Pts 1427 to 13680 Pk1 Loc:1404
Version 6.0 HiSQV Bases: 929

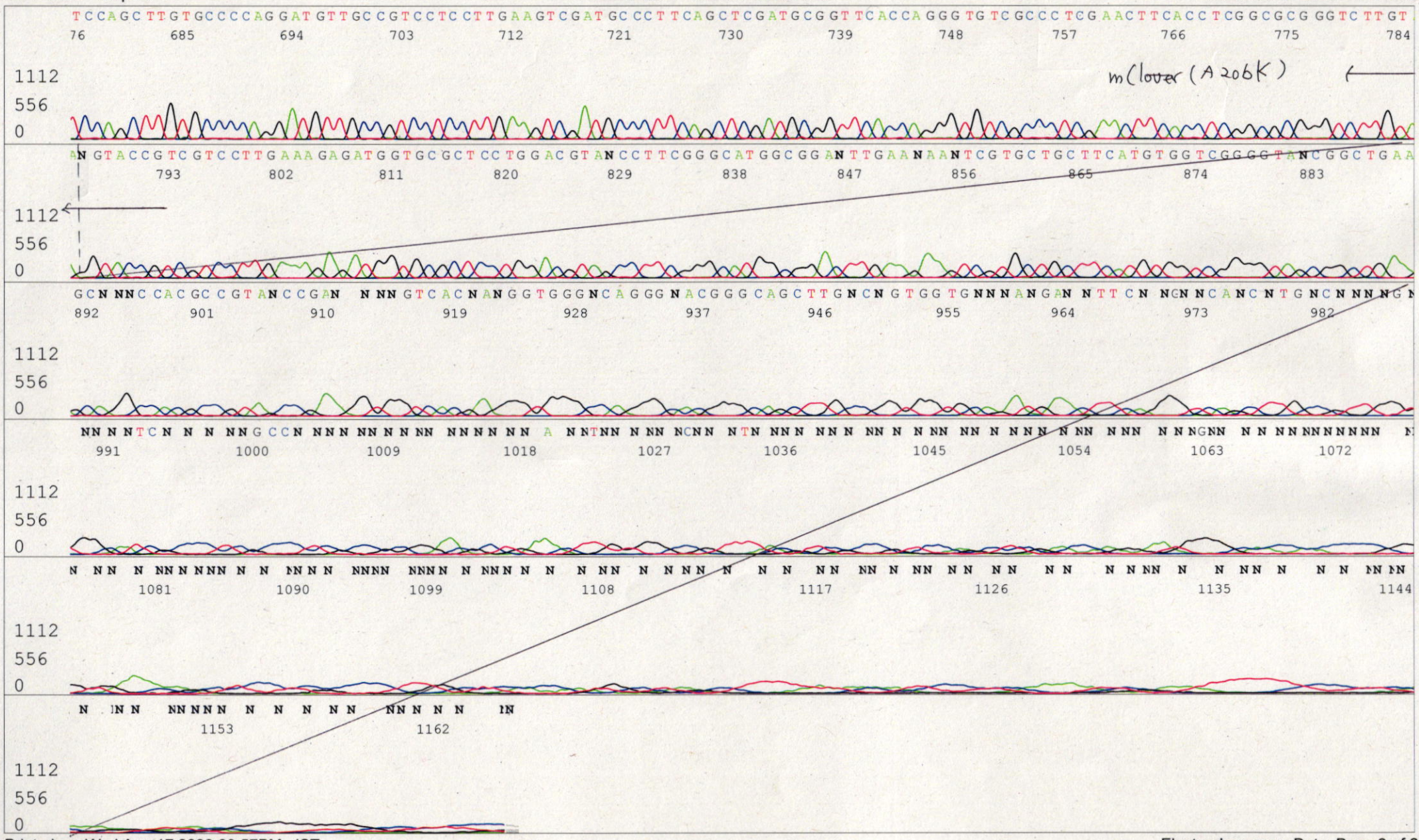
Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.14 Pts/Panel1350
Plate Name: 20220817 kitaku

Applied Biosystems

S/N G:208 A:136 T:164 C:130
KB.bcp
KB 1.4.1.8 Cap:13

D07105C4_B2Ha_3_PGK_N_rev_E01_13_ABI24
D07105C4_B2Ha_3_PGK_N_rev
KB_3500_POP7_BDTv3.mob
Pts 1427 to 13680 Pk1 Loc:1404
Version 6.0 HiSQV Bases: 929

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.14 Pts/Panel1350
Plate Name: 20220817 kitaku



Printed on: Wed Aug 17,2022 03:57PM, JST

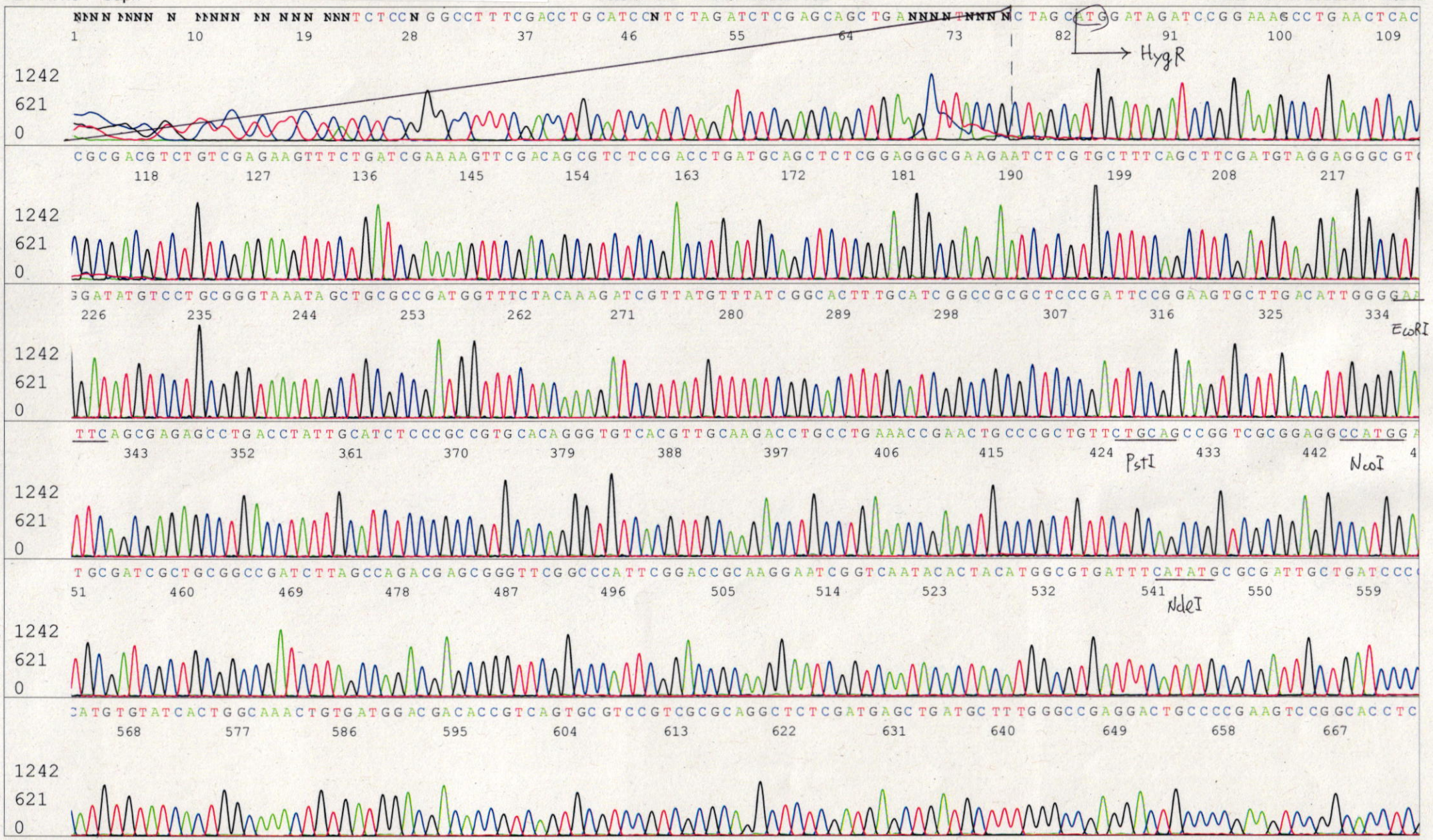
Applied Biosystems

S/N G:196 A:151 T:118 C:163
KB.bcp
KB 1.4.1.8 Cap:7

primer name D : PGKpro_F
5'- ATTCTGCACGCTTCAAAAG -3'

D07105C4_B2Ha_3_PGKpro_F_C01_07_ABI24
D07105C4_B2Ha_3_PGKpro_F
KB_3500_POP7_BDTv3.mob
Pts 1430 to 13569 Pk1 Loc:1407
Version 6.0 HiSQV Bases: 932

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku

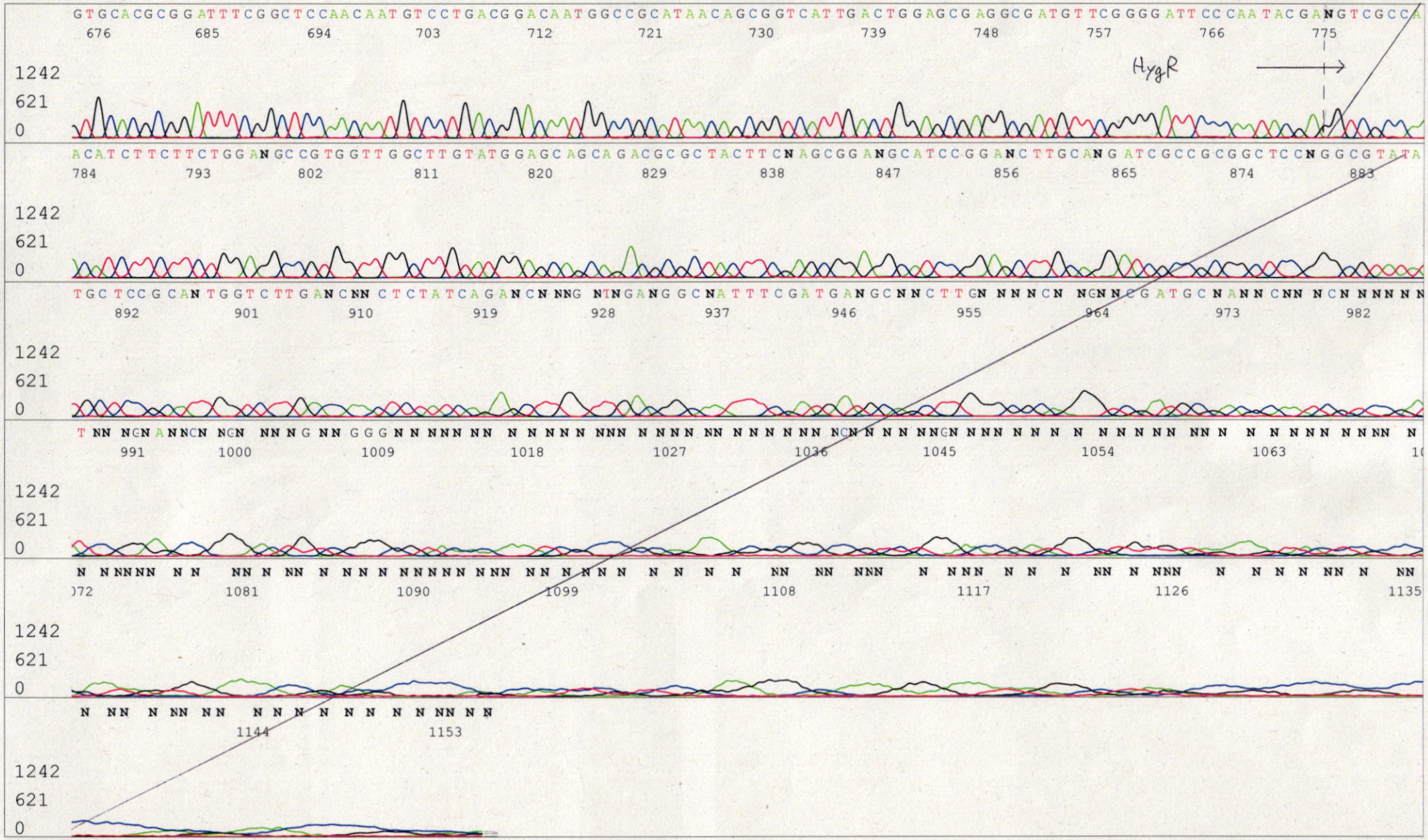


Applied Biosystems

S/N G:196 A:151 T:118 C:163
KB.bcp
KB 1.4.1.8 Cap:7

D07105C4_B2Ha_3_PGKpro_F_C01_07_ABI24
D07105C4_B2Ha_3_PGKpro_F
KB_3500_POP7_BDTv3.mob
Pts 1430 to 13569 Pk1 Loc:1407
Version 6.0 HiSQV Bases: 932

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku


GTGCACGCGGATTTCGGCTCCAACAATGTCCTGACGGACAATGGCCGCATAACAGCGGTCATTGACTGGAGCGAGGCGATGTTCGGGGATTCCCAATACGANGTCGCCA
676 685 694 703 712 721 730 739 748 757 766 775
HygR
1242
621
0
ACATCTTCTTCTGGANGCCGTGGTTGGCTTGTATGGAGCAGCAGACGCGCTACTTCNAGCGGANGCATCCGGANCTTGCANGATCGCCGCGGCTCCNGGCGTATA
784 793 802 811 820 829 838 847 856 865 874 883
TGCTCCGCANTGGTCTTGANCNNCTCTATCAGANCNNNGNTNGANGGCNATTTCGATGANGCNNCTTGNNNNCNNGNNCGATGCNANNCNNNCNNNNN
892 901 910 919 928 937 946 955 964 973 982
T NNNGNANNCNNGNNNNGNNGGGNNNN

Applied Biosystems

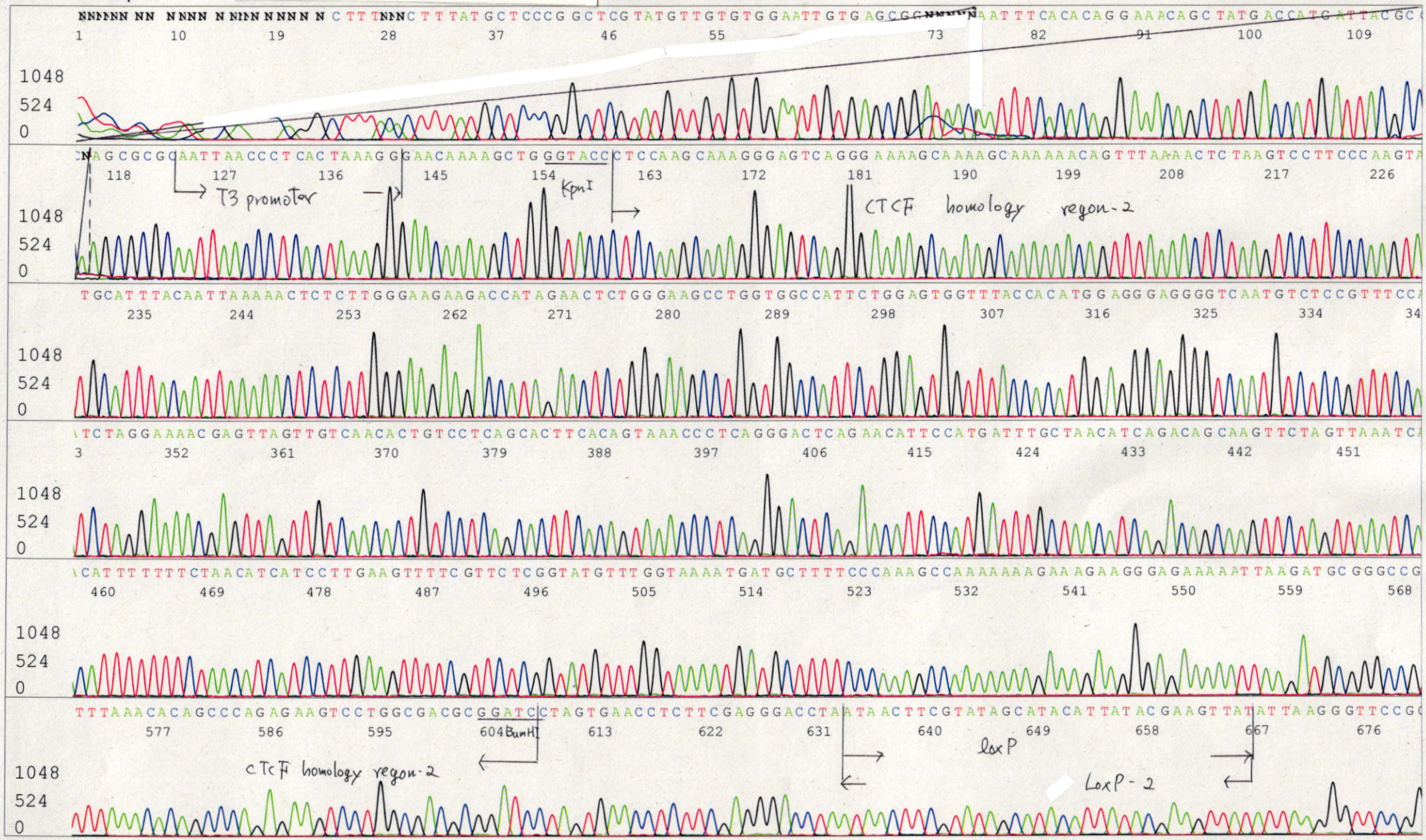
D07105C4_B2Ha_3_pUC-CAPbs_up_F2_G01_19_ABI24
D07105C4_B2Ha_3_pUC-CAPbs_up_F2

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku

S/N G:236 A:244 T:187 C:177
KB.bcp
KB 1.4.1.8 Cap:19

primer name E : pUC-CAPbs_up_F2
5' GTGAGCGCAACGCAATTAATG3'

KB_3500_POP7_BDTv3.mob
Pts 1431 to 13614 Pk1 Loc:1408
Version 6.0 HiSQV Bases: 960



Applied Biosystems

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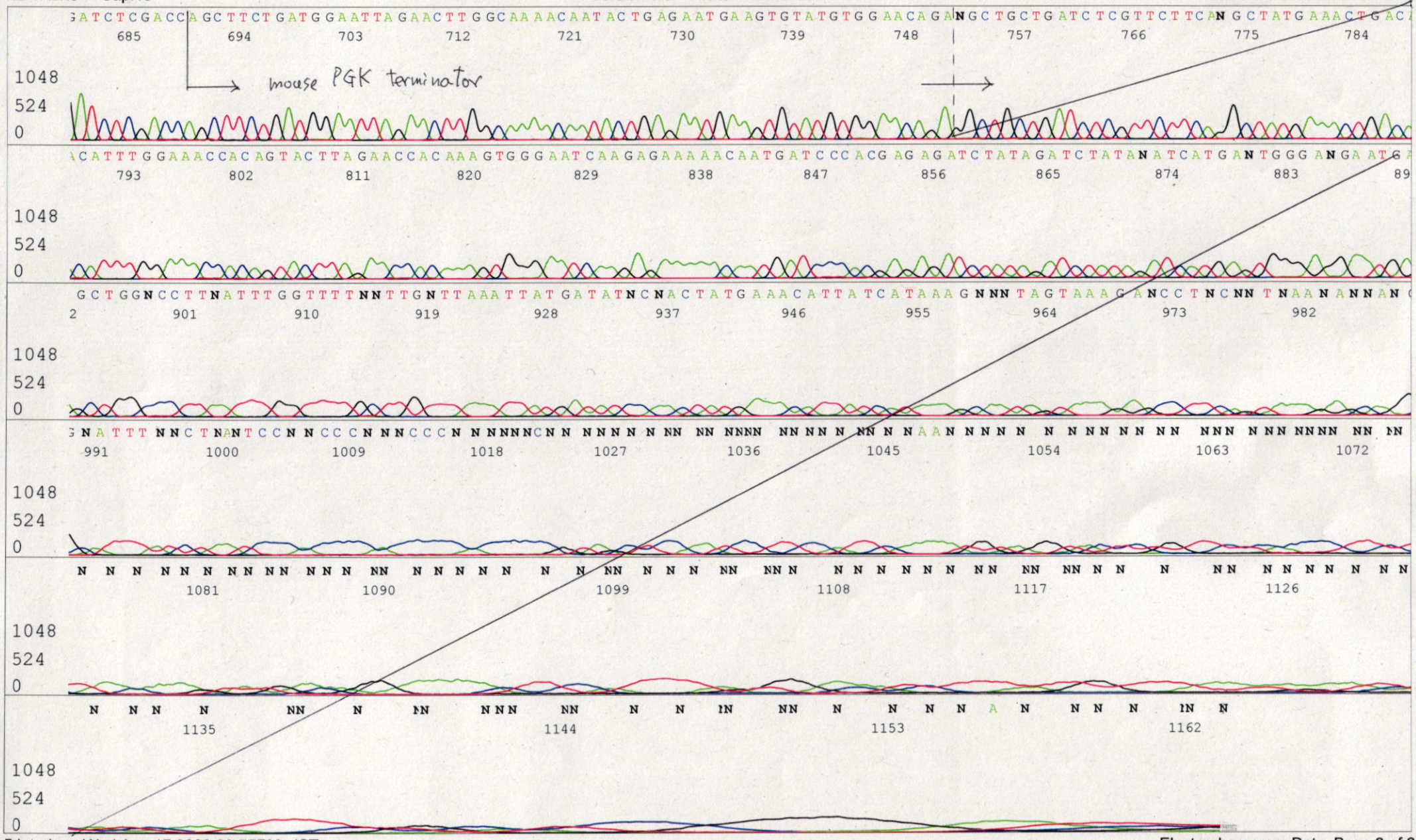
D07105C4_B2Ha_3_pUC-CAPbs_up_F2
KB_3500_POP7_BDTv3.mob
Pts 1431 to 13614 Pk1 Loc:1408
Version 6.0 HiSQV Bases: 960

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku

S/N G:236 A:244 T:187 C:177
KB.bcp
KB 1.4.1.8 Cap:19



Printed on: Wed Aug 17,2022 03:57PM, JST

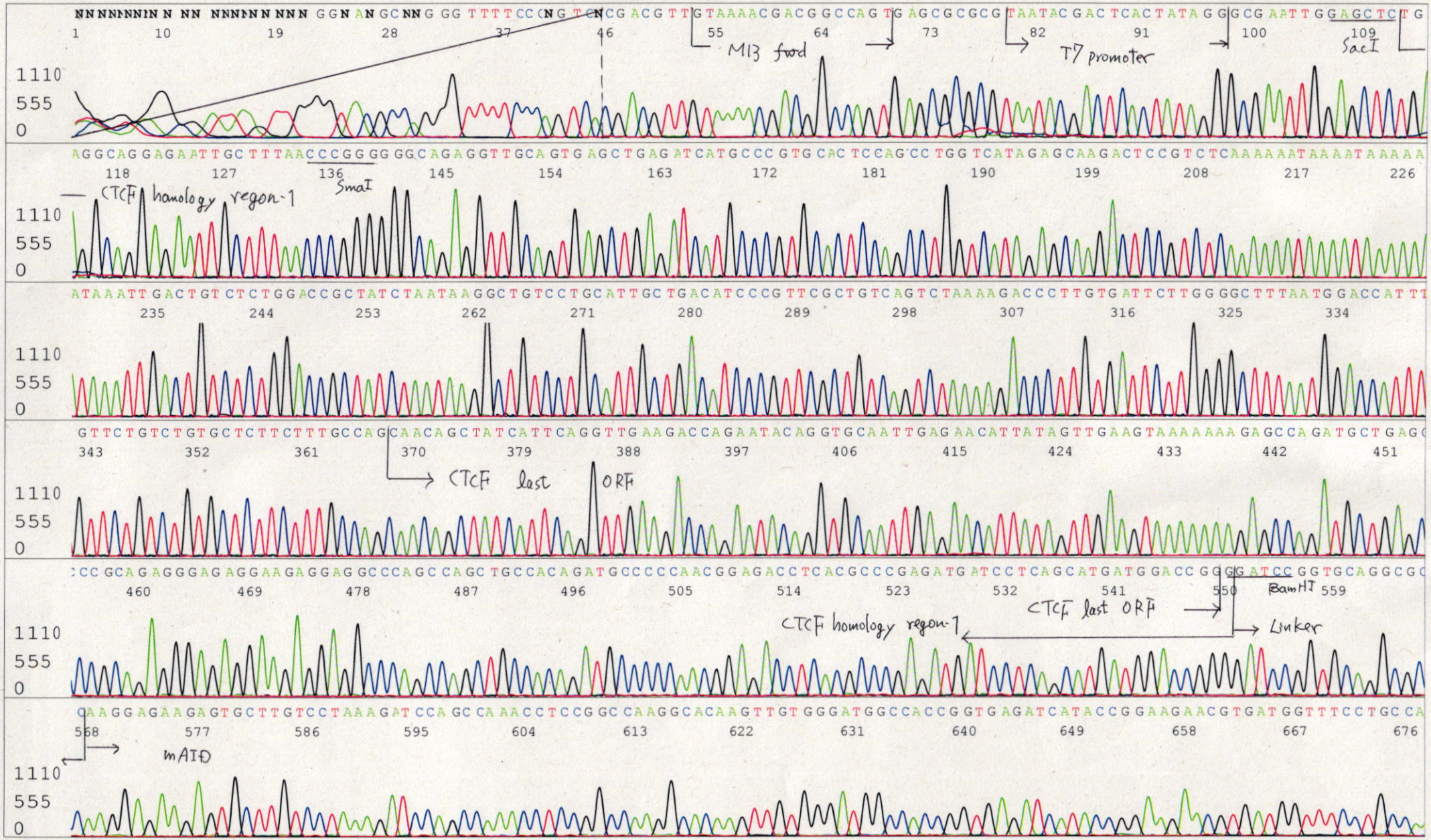
Applied Biosystems

S/N G:325 A:221 T:184 C:198
KB.bcp
KB 1.4.1.8 Cap:16

primer name F : pUC-M13_-100
5'- ATTACGCCAGCTGGCGAAAGG -3'

D07105C4_B2Ha_3_pUC-M13_-100_F01_16_ABI24
D07105C4_B2Ha_3_pUC-M13_-100
KB_3500_POP7_BDTv3.mob
Pts 1397 to 13473 Pk1 Loc:1374
Version 6.0 HiSQV Bases: 938

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.14 Pts/Panel1350
Plate Name: 20220817 kitaku



Applied Biosystems

S/N G:325 A:221 T:184 C:198
KB.bcp
KB 1.4.1.8 Cap:16

D07105C4_B2Ha_3_pUC-M13_-100_F01_16_ABI24
D07105C4_B2Ha_3_pUC-M13_-100
KB_3500_POP7_BDTv3.mob
Pts 1397 to 13473 Pk1 Loc:1374
Version 6.0 HiSQV Bases: 938

Inst Model/Name 3500/3500 Instrument
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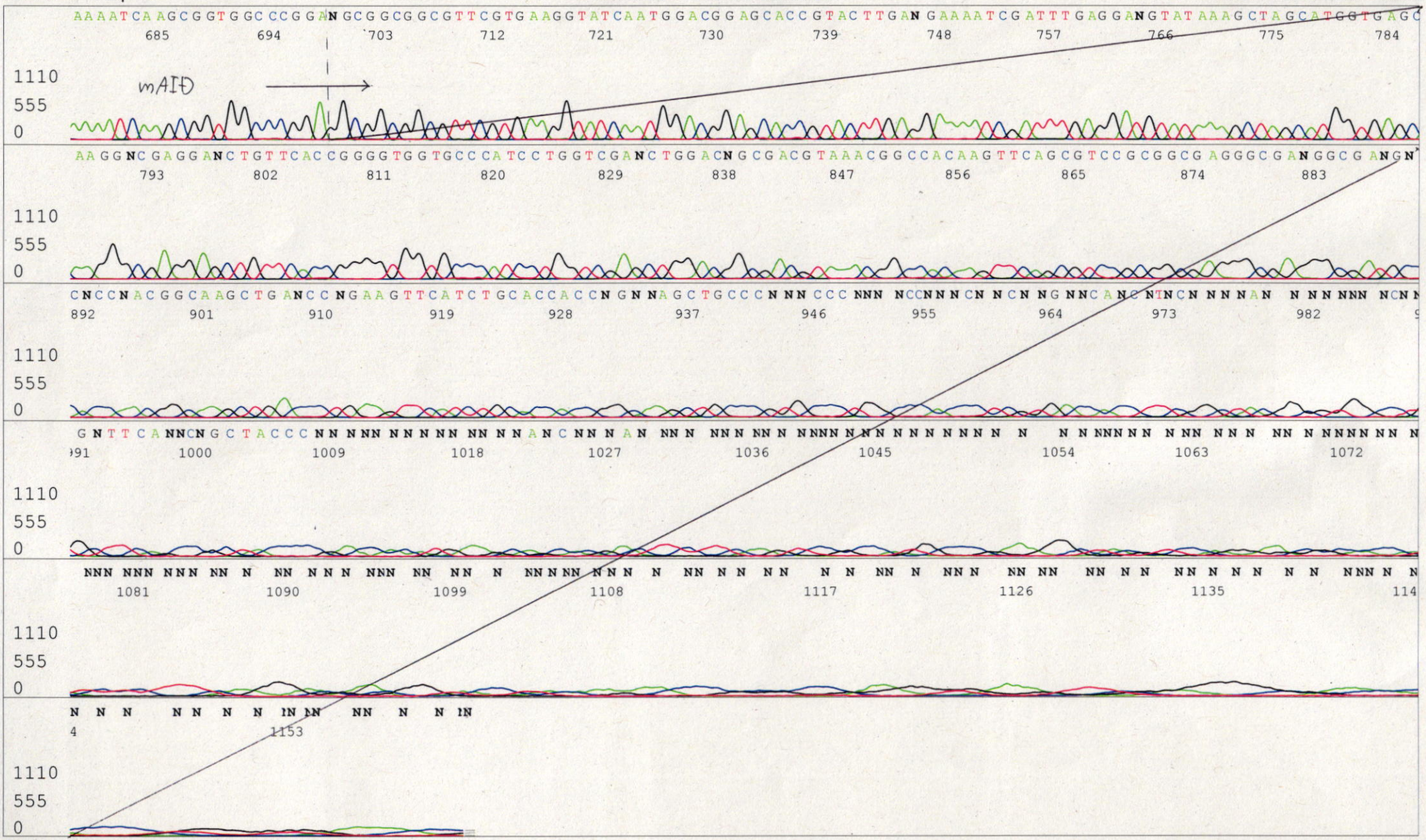
Aug 17,2022 02:14PM, JST
Spacing:12.14 Pts/Panel1350
Plate Name: 20220817 kitaku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685 694 703 712 721 730 739 748 757 766 775 784
mAID
1110
555
0
AAGGNCGAGGANCTGTTCACCGGGGTGGTGCCCATCCTGGTCGANCTGGACNGCGACGTAAACGGCCACAAGTTCAGCGTCCGCGGCGAGGGCGANGGCGANGN
793 802 811 820 829 838 847 856 865 874 883
CNCCNACGGCAAGCTGANCCNGAAGTTCATCTGCACCACCNGNNAGCTGCCCNNNCCCNNNNCCNNNCNNCNNGNNCANCNTNCNNNNAN NNNNNNNCNN
892 901 910 919 928 937 946 955 964 973 982
GNTTCANNCNGCTACCCNNNNNNNNNNNNNANCNNNANNNNNNNNNNNNNN

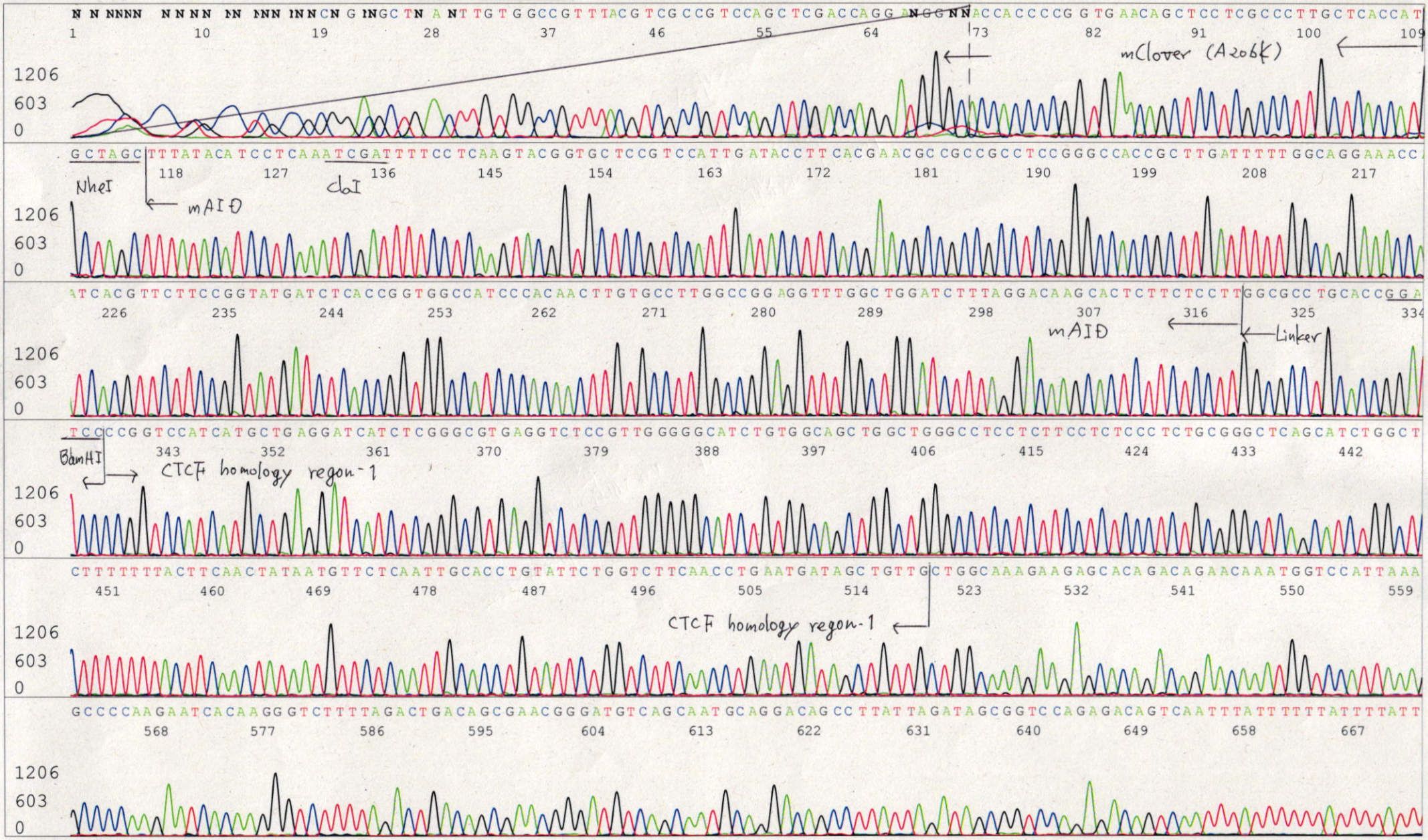
Applied Biosystems

S/N G:208 A:118 T:134 C:169
KB.bcp
KB 1.4.1.8 Cap:1

primer name G : YFP_R
5'- GAACTTCAGGGTCAGCTTGC -3'

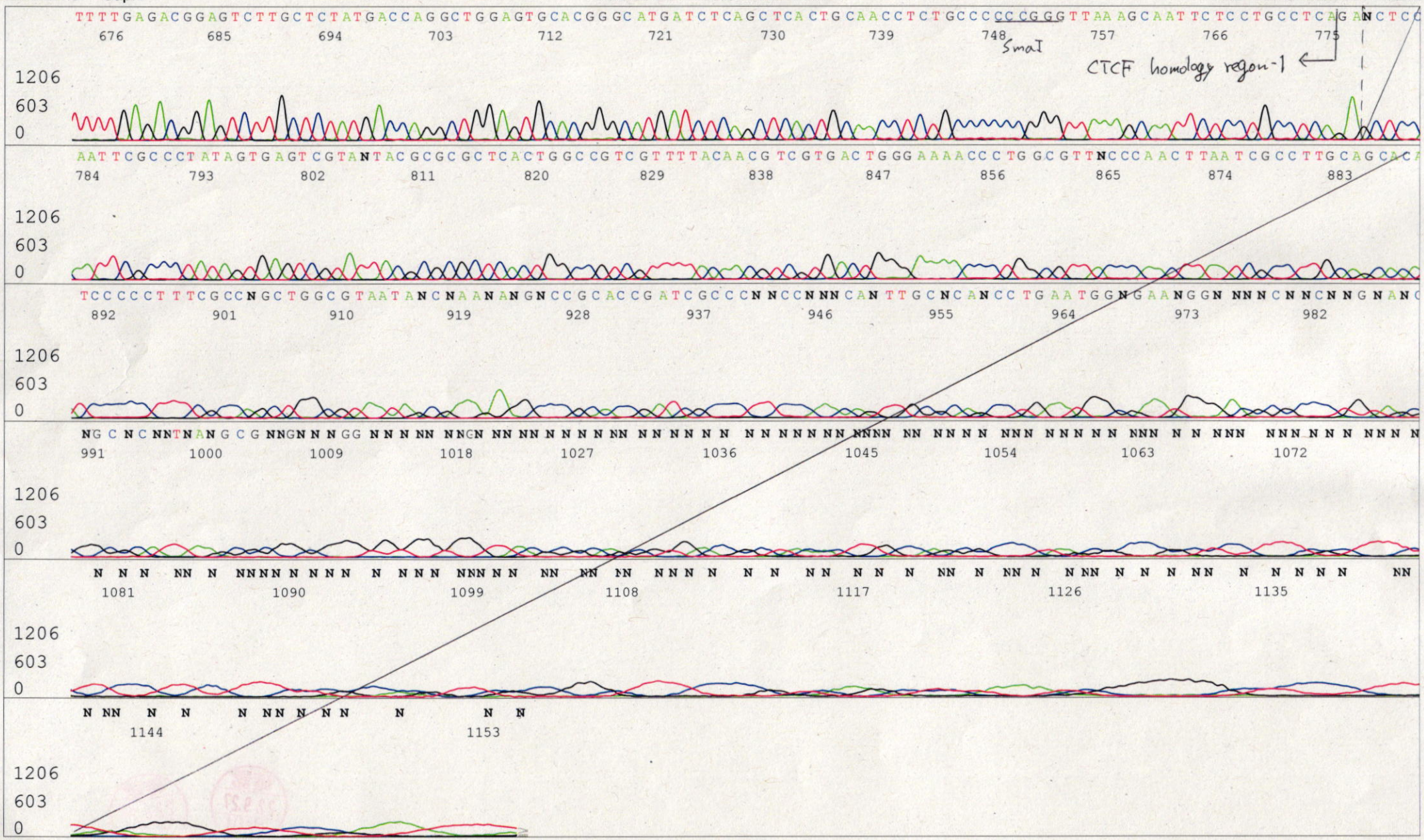
D07105C4_B2Ha_3_YFP_R_A01_01_ABI24
D07105C4_B2Ha_3_YFP_R
KB_3500_POP7_BDTv3.mob
Pts 1444 to 13650 Pk1 Loc:1421
Version 6.0 HiSQV Bases: 957

Inst Model/Name 3500/3500 Instrument
Aug 17,2022 01:47PM, JST
Aug 17,2022 02:14PM, JST
Spacing:12.1 Pts/Panel1350
Plate Name: 20220817 kitaku



Applied Biosystems

S/N G:208 A:118 T:134 C:169
KB.bcp
KB 1.4.1.8 Cap:1

D07105C4_B2Ha_3_YFP_R_A01_01_ABI24
D07105C4_B2Ha_3_YFP_R
KB_3500_POP7_BDTv3.mob
Pts 1444 to 13650 Pk1 Loc:1421
Version 6.0 HiSQV Bases: 957

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Aug 17,2022 01:47PM, JST
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Plate Name: 20220817 kitaku