

RIKEN Clone ID : IRAK049M21

Lot#: 7893_B1Kb

Vector : pCMV-SPORT6

Gene	NKX2-5	
Accession No.	BC025711.1	1632 bp
	<i>CDS</i>	975 bp

● Plasmid DNA purification

Date : 21.11.16

Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C over night

Date : 21.11.17

Purification : QIAGEN Miniprep kit -> dH₂O 100 ul

● Digestion by restriction enzyme/Concentration calibration

Date : 21.11.17

DNA concentration (O.D.): 361 ng/ul

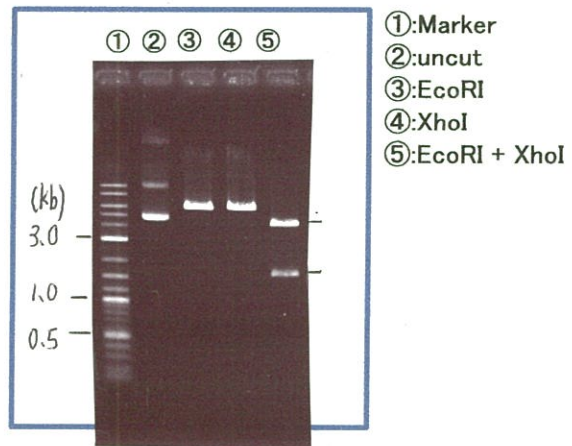
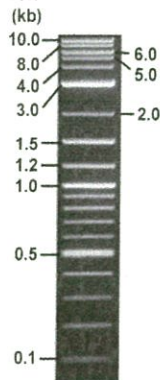
< Size of fragment expected from this clone >

DNA	<u>0.3</u> ul
Enzyme (EcoRI + XhoI)	0.5 + 0.5 ul
Buffer H	1 ul
dH ₂ O	<u>7.7</u> ul
Total	10 ul

EcoRI	6.0 kb
XhoI	6.0 kb
EcoRI + XhoI	4.3kb (Vector) 1.7 kb

Electrophoresis : 1% agarose gel, 1x TAE Buffer

Marker : 2-Log DNA Ladder (NEB#N3200L)



● Adjust plasmid DNA solution to 25 ng/ul

Date : 21.11.19

DNA (<u>361</u> ng/ul)	<u>88.0</u> ul
10x TE	<u>127.0</u> ul
dH ₂ O	<u>1055.7</u> ul
Total	<u>1270.7</u> ul

● Confirmation of the insertion sequence

Date : 21.11.19

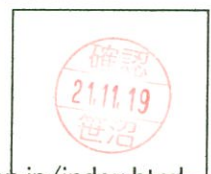
Primer A	Reverse2
Primer B	M13
Primer C	poly(A) region primer #35
List of Sequencing Primers	http://dna.brc.riken.jp/en/GNPclone3en.html

● Shipping

Conc. : 25 ng/ul, Volume : 40 ul
 Conc. : ng/ul, Volume : ul

APPROVED BY :

<http://dna.brc.riken.jp/index.html>



S/N G:75 A:55 T:33 C:78
 KB.bcp
 KB 1.4.1.8 Cap:5

Primer A : Reverse2

7893_IRAK049M21_B1Kg_1_Reverse2

KB_3500_POP7_BDTv3.mob

Pts 1638 to 8433 Pk1 Loc:1606

Version 6.0 HiSQV Bases: 667

Gray line indicates quality value

(QV) < 40.

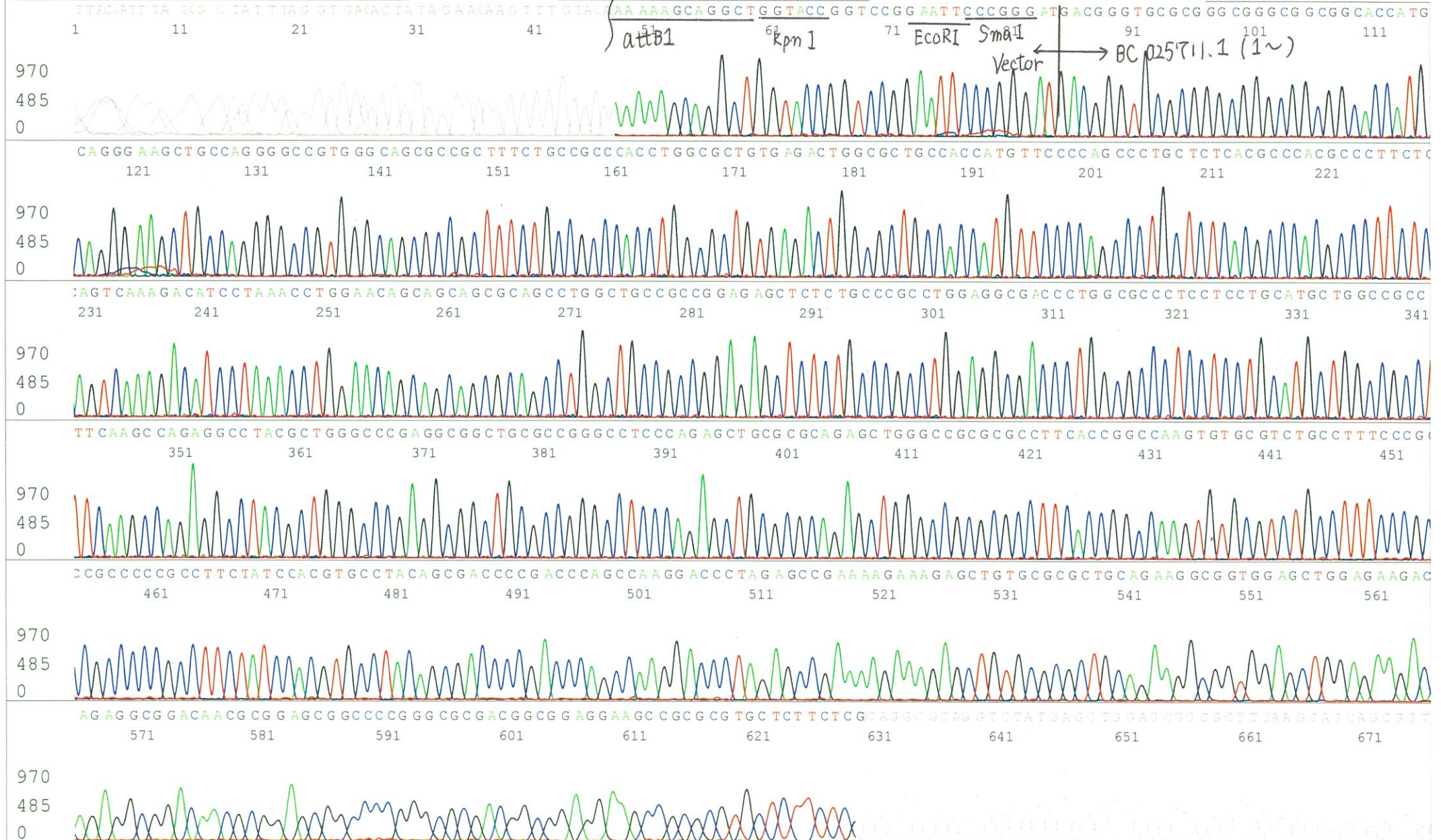
Nov 18,2021 11:25AM, JST

Nov 18,2021 11:40AM, JST

Spacing:10.48 Pts/Panel1350

Plate Name: 20211118_mix

5' GCGGATAACAATTTTCACACAGG 3'



S/N G:24 A:24 T:22 C:23

Primer B : M13

7893_IRAK049M21_B1Kg_1_M13(-40)

KB_3500_POP7_BDTv3.mob

Gray line indicates quality value

Nov 18,2021 11:25AM, JST

KB.bcp

5' GTTTTCCCAGTCACGACGTTGTA 3'

Pts 1643 to 8535 Pk1 Loc:1611

(QV) < 40.

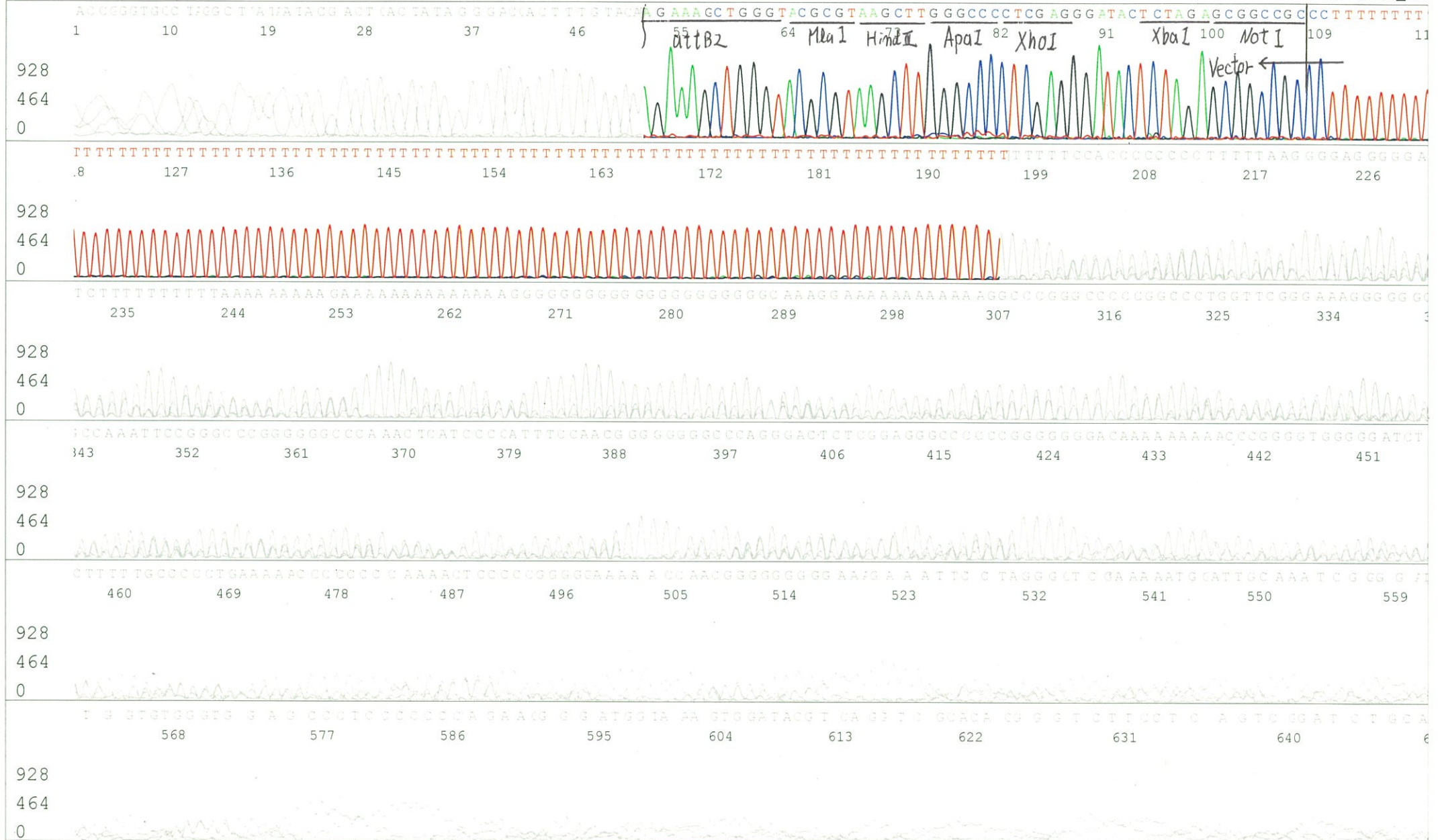
Nov 18,2021 11:40AM, JST

KB 1.4.1.8 Cap:6

Version 6.0 HiSQV Bases: 178

Spacing:10.72 Pts/Panel1350

Plate Name: 20211118_mix



S/N G:13 A:10 T:7 C:10

Primer C : Poly(A) region primer #35

7893_IRAK049M21_B1Kb_1_GNP 35

Nov 19,2021 09:56AM, JST

KB.bcp

KB_3500_POP7_BDTv3.mob

Nov 19,2021 10:12AM, JST

KB 1.4.1.8 Cap:6

5' TTTTTTTTTTTTTTTTTTTTTT AAC 3'

Pts 1625 to 8433 Pk1 Loc:1593

Spacing:10.4 Pts/Panel1350

Version 6.0 HiSQV Bases: 478

Plate Name: 20211119_GNP

