

# Microbial Genomic DNA

RIKEN DNA Bank catalog #

JGD 08466

Lot # : 120319

Strain: JCM 21280T

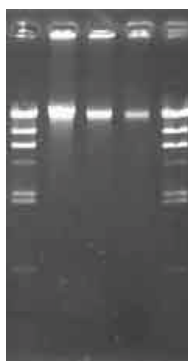
Organism: *Magnetospirillum gryphiswaldense*

Final concentration :	100	ng/ul
Shipping amount :	100	ul

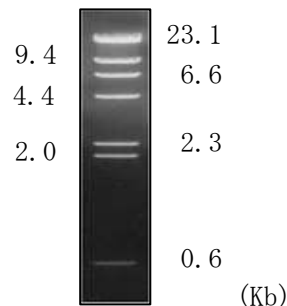
## 1. Electrophoresis of Genomic DNA

Date : 2012/3/21

Electrophoresis : 1% agarose gel, 1x TAE buffer  
 Loading DNA amount : 200, 100 and 50 ng/lane  
 Size marker : Lambda/HindIII (200 ng/lane)



Marker  
 Lambda/HindIII  
 (NEB#N3012S)



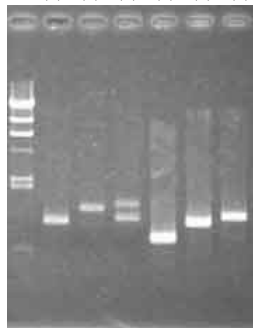
## 2. PCR Amplification

Date : 2012/3/21

Conditions of PCR ribosomal RNA (rRNA) gene

Template : 10 fold diluted DNA, 1 ul  
 Enzyme : KOD Plus (Toyobo)  
 Volume : 20 ul

Reaction program: 94 degC 2 min  
 x30 cycle ( 94 degC 15 sec )  
 ( 60 degC 30 sec )  
 ( 68 degC 60 sec )  
 68 degC 2 min  
 (1) (2) (3) (4) (5) (6)



PCR primers

16S rRNA Eubacteria set	
EB-20F	5' AGTTTGATCCTGGCTC 3'
EB-350F	5' TACGGGAGGCAGCAG 3'
EB-1100R	5' AGGGTTGCGCTCGTTG 3'
EB-1400R	5' ACGGGCGGTGTGTAC 3'
EB-1530R	5' AAGGAGGTGATCCAGCC 3'

Sample Number

	EB-20F	EB-350F
EB-1100R	(1)	(4)
EB-1400R	(2)	(5)
EB-1530R	(3)	(6)

Electrophoresis : 1% agarose gel, 1x TAE buffer  
 Loading DNA amount : 5 ul PCR product/lane  
 Size marker : Lambda/HindIII (200 ng/lane)

## 3. Nucleotide sequence of rRNA gene

 Confirmed date : 2012/3/23