

Appendix III: 16S rRNA gene sequence of the radiation resistant bacterial isolates.

Accession	Description	Max score	Total score	Query coverage	E value	Max ident	Links
HQ738629	Deinococcus sp. Grk2 16S ribosomal RNA gene, partial sequence	2275	2676	100%	0.0	100%	
F0191258	Deinococcus proteolyticus MRP, complete genome	2221	7598	98%	0.0	99%	
F0191259	Deinococcus proteolyticus MRP 16S ribosomal RNA, partial sequence >emb	2221	2521	98%	0.0	98%	
F0003310	Deinococcus sp. 14 pro 16S ribosomal RNA gene, partial sequence	2116	2416	96%	0.0	98%	
F0032258	Deinococcus piscis strain 3ax 16S ribosomal RNA gene, partial sequence	2281	2281	98%	0.0	97%	
F0116411	Deinococcus radiophilus strain DSM 20551 16S ribosomal RNA, partial sequ	2122	2143	98%	0.0	94%	
F0032259	Deinococcus sp. IMCC1711 16S ribosomal RNA gene, partial sequence	2221	2095	98%	0.0	92%	
F0247118	Uncultured bacterium clone ncd2806g12c1 16S ribosomal RNA gene, partial	2225	2025	91%	0.0	94%	
F0181528	Uncultured bacterium clone ncd2095g07c1 16S ribosomal RNA gene, partial	2225	2025	91%	0.0	94%	
F0181529	Uncultured bacterium clone ncd2093g07c1 16S ribosomal RNA gene, partial	2225	2025	91%	0.0	94%	
F0181526	Uncultured bacterium clone ncd2093e08c1 16S ribosomal RNA gene, partial	2225	2025	91%	0.0	94%	
F0277244	Uncultured bacterium clone ncd2064h07c1 16S ribosomal RNA gene, partial	2225	2025	91%	0.0	94%	

LOCUS HQ738629 1449 bp DNA linear BCT 09-MAR-2011

DEFINITION *Deinococcus* sp. Grk2 16S ribosomal RNA gene, partial sequence.

ACCESSION HQ738629

VERSION HQ738629.1 GI:325296104

KEYWORDS

SOURCE *Deinococcus* sp. Grk2

ORGANISM *Deinococcus* sp. Grk2
Bacteria; *Deinococcus*-Thermus; *Deinococci*; *Deinococcales*; *Deinococcaceae*; *Deinococcus*.

REFERENCE 1 (bases 1 to 1449)

AUTHORS Chaturvedi,R. and Archana,G.

TITLE Development of a heminested polymerase chain reaction protocol for the detection of *Deinococcus* species from environmental samples

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 1449)

AUTHORS Chaturvedi,R. and Archana,G.

TITLE Direct Submission

JOURNAL Submitted (20-DEC-2010) Department of Microbiology and Biotechnology Centre, M.S. University of Baroda, Sayajigunj, Vadodara, Gujarat 390002, India

FEATURES
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rev_name: Eubacterial 1541R"

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1441 aaaggcggc
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Accession	Description	Max score	Total score	Query coverage	E value	Max ident	Links
U01491.1	Deinococcus sp. Grk4 16S ribosomal RNA gene, partial sequence	277.2	2774	100%	0.0	100%	
U01492.1	Deinococcus ficus strain cp4502 16S ribosomal RNA gene, partial sequence	252.1	2534	97%	0.0	99%	
U01493.1	Deinococcus ficus strain cp02 16S ribosomal RNA gene, partial sequence	252.1	2534	97%	0.0	99%	
U01494.1	Deinococcus ficus strain CC-FR2-10 16S ribosomal RNA, partial sequence >	252.1	2523	96%	0.0	99%	
U01495.1	Deinococcus sp. Grk5 16S ribosomal RNA gene, partial sequence	252.1	2551	97%	0.0	98%	
U01496.1	Deinococcus sp. X2 16S ribosomal RNA gene, complete sequence	252.1	2545	97%	0.0	98%	
U01497.1	Deinococcus sp. G8 16S ribosomal RNA gene, partial sequence	252.1	2545	97%	0.0	98%	
U01498.1	Deinococcus mumbaiensis strain CON-1 16S ribosomal RNA gene, partial se-	252.1	2532	94%	0.0	99%	
U01499.1	Deinococcus sp. NIO-201103 16S ribosomal RNA gene, partial sequence	252.1	2429	89%	0.0	99%	
U01500.1	Uncultured bacterium clone ncd690c01c1 16S ribosomal RNA gene, partial :	252.1	2418	88%	0.0	99%	
U01501.1	Deinococcus grandis strain DSM 3963 16S ribosomal RNA, partial sequence	252.1	2274	97%	0.0	95%	
U01502.1	Deinococcus sp. R14 16S ribosomal RNA gene, partial sequence	252.1	2242	85%	0.0	98%	

LOCUS HQ876598 1502 bp DNA linear BCT
05-MAR-2011
DEFINITION *Deinococcus* sp. Grk4 16S ribosomal RNA gene, partial
sequence.
ACCESSION HQ876598
VERSION HQ876598.1 GI:324435606
KEYWORDS .
SOURCE Deinococcus sp. Grk4
ORGANISM Deinococcus sp. Grk4
Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales;
Deinococcaceae; Deinococcus.
REFERENCE 1 (bases 1 to 1502)
AUTHORS Chaturvedi,R. and Archana,G.
TITLE Development of a heminested polymerase chain reaction
protocol for the detection of Deinococcus species
from environmental samples
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1502)
AUTHORS Chaturvedi,R. and Archana,G.
TITLE Direct Submission
JOURNAL Submitted (09-JAN-2011) Department of Microbiology and
Biotechnology Centre, The M.S. University of Baroda,
Sayajigunj, Vadodara, Gujarat 390 001, India
FEATURES
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Eubacterial 1541"
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/product="16S ribosomal RNA"

ORIGIN

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Accession	Description	Max score	Total score	Query coverage	E value	Max ident	Link
HQ738630.1	Deinococcus sp. Grk5 16S ribosomal RNA gene, partial sequence	2151	2104	100%	0.0	100%	
F0382163.1	Deinococcus ficus strain cp02 16S ribosomal RNA gene, partial sequence	2150	2196	99%	0.0	99%	
F0382171.1	Deinococcus ficus strain cp4502 16S ribosomal RNA gene, partial sequence	2150	2195	99%	0.0	99%	
F0431181.1	Deinococcus ficus strain CC-FR2-10 16S ribosomal RNA, partial sequence >	2150	2190	99%	0.0	99%	
F0874118.1	Deinococcus sp. Grk4 16S ribosomal RNA gene, partial sequence	2151	2151	99%	0.0	98%	
G0002111.1	Deinococcus mumbaiensis strain CON-1 16S ribosomal RNA gene, partial se	2151	2119	96%	0.0	99%	
G0002107.1	Deinococcus sp. X2 16S ribosomal RNA gene, complete sequence	2153	2108	98%	0.0	98%	
G0022102.1	Deinococcus sp. G8 16S ribosomal RNA gene, partial sequence	2153	2108	98%	0.0	98%	
G0884111.1	Deinococcus sp. NIO-201103 16S ribosomal RNA gene, partial sequence	2151	2181	92%	0.0	98%	
F0181111.1	Uncultured bacterium clone ncd690c01c1 16S ribosomal RNA gene, partial	2151	2190	91%	0.0	99%	
F0141111.1	Deinococcus sp. R14 16S ribosomal RNA gene, partial sequence	2151	2135	98%	0.0	98%	
G0141111.1	Deinococcus xibeiensis 16S ribosomal RNA gene, partial sequence	2151	2112	98%	0.0	97%	

LOCUS HQ738630 1464 bp DNA linear BCT
09-MAR-2011

DEFINITION *Deinococcus* sp. Grk5 16S ribosomal RNA gene, partial sequence.

ACCESSION HQ738630

VERSION HQ738630.1 GI:325296105

KEYWORDS

SOURCE *Deinococcus* sp. Grk5

ORGANISM *Deinococcus* sp. Grk5

Bacteria; *Deinococcus*-*Thermus*; *Deinococci*; *Deinococcales*; *Deinococcaceae*; *Deinococcus*.

REFERENCE 1 (bases 1 to 1464)

AUTHORS Chaturvedi,R. and Archana,G.

TITLE Development of a heminested polymerase chain reaction protocol for

the detection of *Deinococcus* species from environmental samples

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 1464)

AUTHORS Chaturvedi,R. and Archana,G.

TITLE Direct Submission

JOURNAL Submitted (20-DEC-2010) Department of Microbiology and Biotechnology Centre, M.S. University of Baroda, Sayajigunj, Vadodara, Gujarat 390002, India

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ORIGIN

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