# Salinibacter ruber

## Strain identifier

| | | | |
|---|---|---|---|
| **BacDive ID:** | 17796 | **DOI:** | 10.13145/bacdive17796.20191129.4.1 |
| **Type strain:** | yes | **Designation:** | M31 |
| **Culture col. no.:** | DSM 13855, CECT 5946 | | |

## Sections



## Name and taxonomic classification

| | | |
|---|---|---|
| Ref.: 5176 | **Domain** | Bacteria |
| Ref.: 5176 | **Phylum** | Rhodothermaeota |
| Ref.: 5176 | **Class** | Rhodothermia |
| Ref.: 5176 | **Order** | Cytophagales |
| Ref.: 5176 | **Family** | Salinibacteraceae |
| Ref.: 5176 | **Genus** | Salinibacter |
| Ref.: 5176 | **Species** | Salinibacter ruber |
| Ref.: 5176 | **Full Scientific Name** | Salinibacter ruber Antón et al. 2002 emend. Makhdoumi-Kakhki et al. 2012 |
| Ref.: 5176 | **Designation:** | M31 |
| Ref.: 5176 | **Type strain:** | yes |

**Prokaryotic Nomenclature Up-to-date (PNU)**

| | | |
|---|---|---|
| Ref.: 20215 | **Domain** | Bacteria |
| Ref.: 20215 | **Phylum** | Rhodothermaeota |
| Ref.: 20215 | **Class** | Rhodothermia |
| Ref.: 20215 | Literature reference | Int. J. Syst. Evol. Microbiol. 67:1 |
| Ref.: 20215 | **Family** | Salinibacteraceae |
| Ref.: 20215 | Literature reference | Int. J. Syst. Evol. Microbiol. 66:4299 |
| Ref.: 20215 | **Genus** | Salinibacter |
| Ref.: 20215 | Taxonomical status | gen. nov. (VP) |

# Salinibacter ruber

| | | |
|---|---|---|
| Ref.: 20215 | Literature reference | Int. J. Syst. Evol. Microbiol. 52:485* |
| Ref.: 20215 | **Species** | Salinibacter ruber |
| Ref.: 20215 | Taxonomical status | sp. nov. (VP) |
| Ref.: 20215 | Literature reference | Int. J. Syst. Evol. Microbiol. 52:485* |
| Ref.: 20215 | **Full Scientific Name** | Salinibacter ruber Antón et al. 2002 emend. Makhdoumi-Kakhki et al. 2012 |

## Culture and growth conditions

| | | |
|---|---|---|
| Ref.: 5176 | **Culture medium** | SALINIBACTER RUBER MEDIUM (DSMZ Medium 936), 37°C |
| Ref.: 5176 | **Culture medium growth** | yes |
| Ref.: 5176 | **Culture medium link** | https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium936.pdf |

| | | |
|---|---|---|
| Ref.: 32764 | **Culture medium** | MEDIUM 429 - for Salinibacter ruber |
| Ref.: 32764 | **Culture medium growth** | yes |
| Ref.: 32764 | **Culture medium composition** | Sodium hydrogen carbonate (0.250 g);Distilled water make up to (1000.000 ml);Sodium chloride (195.000 g);Potassium chloride (5.000 g);Magnesium chloride hexahydrate(34.600 g);Magnesium sulphate heptahydrate (49.500 g);Calcium chloride dihydrate (1.250 g); |

**Temperatures**

| | Kind of temperature | Temperature |
|---|---|---|
| Ref.: 5176 | growth | 37 °C |
| Ref.: 32764 | growth | 37 °C |

| | | |
|---|---|---|
| Ref.: 5176 | **Temperature range** | mesophilic |
| Ref.: 32764 | **Temperature range** | mesophilic |

## Isolation, sampling and environmental information

| | | |
|---|---|---|
| Ref.: 5176 | **Sample type/isolated from** | solar saltern |
| Ref.: 5176 | **Geographic location (country and/or sea, region)** | Mallorca |
| Ref.: 5176 | **Country** | Spain |
| Ref.: 5176 | **Continent** | Europe |

**Isolation sources categories**

| Cat1 | Cat2 | Cat3 |
|---|---|---|
| #Condition | #Saline | - |

# Salinibacter ruber

## Application and interaction

| | | |
|---|---|---|
| Ref.: 5176 | **Biosafety level** | 1 Risk group (German classification) |

## Molecular biology

| | | |
|---|---|---|
| Ref.: 5176 | **GC-content** | 70 mol% |

| | Sequence database | Sequence accession description | Sequence accession number | Sequence length(bp) | Associated NCBI tax ID | |
|---|---|---|---|---|---|---|
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Salinibacter ruber gdhA gene for glutamate dehydrogenase, strain M31 | AJ849660 | 1305 | 309807 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | Salinibacter ruber partial MRNA for chorismate synthase homologue | AM040216 | 1147 | 309807 | * |
| Ref.: 20218 | Marker Gene (GenBank Direct submission) | Salinibacter ruber DSM 13855 halorhodopsin-like gene, complete cds | AY667579 | 750 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | Sequence 10427 from Patent WO2010046221 | HC753336 | 1299 | 309807 | * |
| Ref.: 20218 | Marker Gene (EMBL Direct submission) | TPA: Salinibacter ruber DSM 13855 transfer-messenger mRNA Salin_ruber_13855, single chain mature transcript | HG782573 | 369 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ala-CGC-1-1 gene | LK015211 | 73 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ala-GGC-1-1 gene | LK015212 | 73 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ala-TGC-1-1 gene | LK015213 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Arg-CCG-1-1 gene | LK015214 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Arg-GCG-1-1 gene | LK015216 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Arg-TCG-1-1 gene | LK015217 | 78 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Asn-GTT-1-1 gene | LK015218 | 75 | 309807 | * |

| | | | | | | |
|---|---|---|---|---|---|---|
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Asp-GTC-1-1 gene | LK015219 | 75 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Cys-GCA-1-1 gene | LK015220 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Gln-CTG-1-1 gene | LK015221 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Gln-TTG-1-1 gene | LK015222 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Glu-CTC-1-1 gene | LK015223 | 73 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Glu-TTC-1-1 gene | LK015224 | 78 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Gly-GCC-1-1 gene | LK015226 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Gly-TCC-1-1 gene | LK015227 | 72 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-His-GTG-1-1 gene | LK015228 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ile-GAT-1-1 gene | LK015229 | 75 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Leu-CAA-1-1 gene | LK015230 | 89 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Leu-CAG-1-1 gene | LK015231 | 85 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Leu-GAG-1-1 gene | LK015232 | 89 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Leu-TAG-1-1 gene | LK015233 | 88 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Lys-CTT-1-1 gene | LK015234 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Lys-TTT-1-1 gene | LK015235 | 74 | 309807 | * |

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|---|---|---|---|---|---|---|
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Met-CAT-1-1 gene | LK015236 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Met-CAT-2-1 gene | LK015237 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Met-CAT-3-1 gene | LK015238 | 72 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Phe-GAA-1-1 gene | LK015239 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Pro-CGG-1-1 gene | LK015240 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Pro-GGG-1-1 gene | LK015241 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Pro-TGG-1-1 gene | LK015242 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ser-CGA-1-1 gene | LK015243 | 92 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ser-GCT-1-1 gene | LK015244 | 93 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ser-GGA-1-1 gene | LK015245 | 92 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Ser-TGA-1-1 gene | LK015246 | 87 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Thr-CGT-1-1 gene | LK015247 | 73 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Thr-GGT-1-1 gene | LK015248 | 75 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Thr-TGT-1-1 gene | LK015249 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Trp-CCA-1-1 gene | LK015250 | 76 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Tyr-GTA-1-1 gene | LK015251 | 86 | 309807 | * |

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|---|---|---|---|---|---|---|
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Val-CAC-1-1 gene | LK015252 | 77 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Val-GAC-1-1 gene | LK015253 | 74 | 309807 | * |
| Ref.: 20218 | INSDC Sequence | TPA: Salinibacter ruber DSM 13855 tRNA-Val-TAC-1-1 gene | LK015254 | 74 | 309807 | * |
| Ref.: 5176 | complete genome, GenBank Genome project data | Salinibacter ruber DSM 13855, complete genome | CP000159 | 3551823 | 309807 | |
| Ref.: 5176 | 16S rRNA gene, Marker Gene (GenBank Direct submission) | Salinibacter ruber strain M31 16S ribosomal RNA gene, partial sequence | AF323500 | 1482 | 309807 | |

## Strain availability

| | | |
|---|---|---|
| Ref.: 5176 | **Culture collection no.** | DSM 13855, CECT 5946 |
| Ref.: 5176 | **Strain history** | <- J. Antón; M31 |

**Associated Passport(s) in StrainInfo**

Ref.: 20218 303748 - http://www.straininfo.net/strains/303748

Ref.: 20218 303747 - http://www.straininfo.net/strains/303747

## References


Ref.: 5176 Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 13855

Ref.: 20215 D.Gleim, M.Kracht, N.Weiss et. al.: Prokaryotic Nomenclature Up-to-date - compilation of all names of Bacteria and Archaea, validly published according to the Bacteriological Code since 1. Jan. 1980, and validly published nomenclatural changes since.

Ref.: 20218 Verslyppe, B., De Smet, W., De Baets, B., De Vos, P., Dawyndt P. StrainInfo introduces electronic passports for microorganisms.. Syst Appl Microbiol. 37: 42-50 2014 (10.1016/j.syapm.2013.11.002, 24321274)

Ref.: 32764 None; Curators of the CIP; None


*** These References are textmined**

back to top