

Parasynechococcus marisnigri sp. nov.

Submitted by Kamyshnikova, Asia

Genus *Parasynechococcus*

Etymology

[Pa.ra.sy.ne.cho.coc'cus] Gr. prep. *para*, beside; N.L. masc. n. *Synechococcus*, the bacterial genus; N.L. masc. n. *Parasynechococcus*, a genus beside/resembling *Synechococcus*

Nomenclatural type

Species *Parasynechococcus marisnigri*^{Ts}

Description

List of characteristics considered essential for membership in the taxon: Characteristic traits of *Parasynechococcus* are: 16S rRNA gene closely related to marine strains of *Synechococcus* and *Prochlorococcus*, α -Carboxysomes, absence of Fructose-1, 6-bisphosphatase and 6-phosphofructokinase and presence of DNA polymerase II.

Classification

Bacteria » *Cyanobacteriota* » *Cyanophyceae* » “*Synechococcales*” » *Synechococcaceae* » *Parasynechococcus*

References

Effective publication: Coutinho et al., 2016 [1]
Assigned taxonomically: Coutinho et al., 2016 [2]

Registry URL

<https://seqco.de/i:31975>

Species *Parasynechococcus marisnigri*^{Ts}

Etymology

[ma.ris.ni'gri] L. neut. n. *mare*, sea; L. neut. adj. *nigrum*, black; N.L. gen. n. *marisnigri*, referring to the increased abundance of this organism at the Black Sea province

Nomenclatural type

[NCBI Assembly: GCF_000195975.1](#)^{Ts}

Reference Strain

WH 8102

Description

The phycobilisome pigmentation of this strain belongs to class 3c. Bacteriocin gene clusters detected in this genome belong to classes I, U. Reference strain is WH8102, which has a genome of 2.43 Mbp with a GC content of 59.4 % that encodes 2752 genes that include 365 diagnostic orthologous groups. Affiliation to the species can be determined by the presence of Ammonium transporter, Ferric iron ABC transporter: ATP-binding protein, Ferric iron ABC transporter: iron-binding protein, Ferric iron ABC transporter: permease protein, GlnN, NifS, NifU, Nitrate ABC transporter, Nitrate/Nitrite transporter, UreD, UreE, UreF, UreG, UrtA, UrtB, UrtC, UrtD, UrtE, phnE, phoB, phoH, phoR, pstA, pstB, pstC, pstS

Classification

Bacteria » *Cyanobacteriota* » *Cyanophyceae* » “*Synechococcales*” » *Synechococcaceae* » *Parasynechococcus* » *Parasynechococcus marisnigri*^{Ts}

References

Effective publication: Coutinho et al., 2016 [1]

Registry URL<https://seqco.de/i:33333>**References**

1. Coutinho et al. (2016). Proposal of fifteen new species of *Parasynechococcus* based on genomic, physiological and ecological features. *Archives of Microbiology*. DOI:10.1007/s00203-016-1256-y
2. Coutinho et al. (2016). Comparative genomics of *Synechococcus* and proposal of the new genus *Parasynechococcus*. *PeerJ*. DOI:10.7717/peerj.1522

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List seqco.de/r:rk53ahu7 submitted by **Kamyshnikova, Asia** and including 2 new names has been successfully validated.

Date of Priority: 2024-07-15 01:05 UTC

DOI: 10.57973/seqcode.r:rk53ahu7

