

**Table S1.** Origin data and GenBank accession numbers for the studied clones of *Nitzschia acidoclinata*.

№	Clone	Habitat and locality	Sampling date	GenBank accession no.	Average annual temperature, °C	Average annual rainfall, mm
1.	VCA-7	Wet ground from the Gonduras Cave, Krasnoyarsk Territory, 55.847420 N, 92.197710 E.	February 19, 2011	OM423716	nd	nd
2.	VCA-48	Waterlogged soil from the territory of the Natural Reserve “Pleistocene Park”, Republic of Sakha, 68.511147 N, 161.508531 E.	July 2018	OM423714	-12.7	156
3.	VCA-49	Waterlogged soil from the territory of the Natural Reserve “Pleistocene Park”, Republic of Sakha, 68.511147 N, 161.508531 E.	July 2018	OM423713	-12.7	156
4.	VCA-50	Waterlogged soil from the territory of the Natural Reserve “Pleistocene Park”, Republic of Sakha, 68.511317 N, 161.505204 E.	July 2018	OM423715	-12.7	156
5.	VCA-51	Wet ground from the Spyashchaya Krasavica Cave, Primorsky Krai, 43.640767 N, 132.561367 E.	December 04, 2019	OM423717	nd	nd
6.	VCA-52	Waterlogged soil from the State Nature Reserve “Bastak”, Jewish Autonomous Region, 48.433217 N, 134.222283 E.	June 29, 2021	OM423718	1.5	673

Notes: Average annual temperature and average annual rainfall are given according <https://ru.climate-data.org/>; nd – no data.