Table S3. List of selected species

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| --- | --- | --- |
| List of archaeal species used in study **Species**  | **Phylum**  | **NCBI Taxonomy ID**  |
| *Sulfolobus solfataricus P2*  | Crenarchaeota  | 2287  |
| *Pyrobaculum aerophilum str. IM2*  | Crenarchaeota  | 13773  |
| *Aeropyrum pernix K1*  | Crenarchaeota  | 56636  |
| *Thermoplasma acidophilum DSM 1728*  | Euryarchaeota  | 2303  |
| *Pyrococcus abyssi GE5*  | Euryarchaeota  | 29292  |
| *Methanosarcina mazei Go1*  | Euryarchaeota  | 2209  |
| *Methanopyrus kandleri AV19*  | Euryarchaeota  | 2320  |
| *Methanocaldococcus jannaschii DSM 2661*  | Euryarchaeota  | 2190  |
| *Halobacterium sp. NRC-1*  | Euryarchaeota  | 64091  |
| *Haloarcula marismortui ATCC 43049*  | Euryarchaeota  | 2238  |
| *Archaeoglobus fulgidus DSM 4304*  | Euryarchaeota  | 2234  |
| *Nanoarchaeum equitans Kin4-M*  | Nanoarchaeota  | 160232  |