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 |