Supplemental Table 2. Relative abundance of *mmoX\** genes. Actual numbers of genes are shown.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Unamended | +O2-NO3- | +O2+NO3- | -O2-NO3- | -O2+NO3- |
| *Methylococcaceae* | 0 | 5 | 3 | 0 | 0 |
| *Methylocystaceae* | 1 | 13 | 0 | 0 | 0 |

*\*mmoX* encodes the alpha subunit of soluble methane monooxygenase.

Supplemental Table 3. Relative abundance of *mxaF/xoxF\** genes representing *Methylococcaceae, Methylophilaceae* and *Methylocystaceae.* Actual numbers of genes are shown.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Enzyme/microcosm | Unamended | +O2-NO3- | +O2+NO3- | -O2-NO3- | O2+NO3- |
| *Methylococcaceae* MxaF | 2 | 12 | 9 | 0 | 3 |
| *Methylococcaceae* XoxF | 27 | 41 | 17 | 4 | 6 |
| *Methylophilaceae* MxaF | 0 | 2 | 0 | 0 | 0 |
| *Methylophilaceae* XoxF | 19 | 92 | 37 | 0 | 4 |
| *Methylocystaceae* MxaF | 0 | 16 | 0 | 0 | 0 |
| *Methylocystaceae* XoxF | 0 | 15 | 0 | 0 | 0 |

*\*mxaF* encodes the large subunit of methanol dehydrogenase. *xoxF* is a homolog of *mxaF.*