**Table S3. α-glucan** **related genes in *Cafeteria* transcriptomes.**

|  |  |  |  |
| --- | --- | --- | --- |
| ST1 gene | product | *Cafeteria* gene | Evalue |
| OAO18236 | glycogen synthase | CAMPEP\_0196773098*Cafeteria* sp., Strain Caron Lab Isolate | 4e-145 |
| OAO18236 | glycogen synthase | CAMPEP\_0117703034*Cafeteria roenbergensis*, Strain E4-10 | 3e-107 |
| OAO12628 | 1,4-alpha-glucan-branching enzyme | CAMPEP\_0196788180*Cafeteria* sp., Strain Caron Lab Isolate | 1e-152 |
| OAO12628 | 1,4-alpha-glucan-branching enzyme | CAMPEP\_0117728188*Cafeteria roenbergensis*, Strain E4-10 | 1e-131 |