|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GI no.** | **Protein name / organism** |  | **Time points** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **t1** |  |  | **t2** |  |  | **t3** |  |  | **t4** |  |  | **t5** |  |
|  |  |  | **RIA [%]** | **lr** |  | **RIA [%]** | **lr** |  | **RIA [%]** | **lr** |  | **RIA [%]** | **lr** |  | **RIA [%]** | **lr** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| gi198282766 | glutamine synthetase, type I |  | 19.8 ± 0.2 | 0.90 ± 0.02 |  | 32.7 ± 4.8 | 0.98 ± 0.01 |  | 36.4 ± 3.8 | 0.82 ± 0.04 |  | 89.6 ± 0.1 | 0.88 ± 0.02 |  | 89.4 ± 0.4 | 0.87 ± 0.02 |
|  | [*Acidithiobacillus ferrooxidans* ATCC 53993] |  |  |  |  |  |  |  | 77.5 ± 2.0 | 0.16 ± 0.05 |  | 33.0 ± 2.0 | 0.12 ± 0.02 |  | 32.8 ± 3.6 | 0.12 ± 0.02 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| gi198282835 | chaperonin GroEL |  | 19.8 ± 0.3 | 0.91 ± 0.02 |  | 33.6 ± 4.7 | 0.98 ± 0.01 |  | 37.3 ± 3.7 | 0.88 ± 0.04 |  | 89.5 ± 0.2 | 0.84 ± 0.03 |  | 89.2 ± 0.5 | 0.84 ± 0.03 |
|  | [*Acidithiobacillus ferrooxidans* ATCC 53993] |  |  |  |  |  |  |  | 77.1 ± 0.9 | 0.11 ± 0.04 |  | 34.5 ± 2.5 | 0.15 ± 0.04 |  | 33.5 ± 2.7 | 0.14 ± 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Average *Acidithiobacillus ferrooxidans* proteins | |  | 19.8 ± 0.2 | 0.90 ± 0.02 |  | 33.2 ± 4.6 | 0.98 ± 0.01 |  | 36.9 ± 3.7 | 0.85 ± 0.05 |  | 89.5 ± 0.1 | 0.86 ± 0.03 |  | 89.3 ± 0.4 | 0.85 ± 0.03 |
|  |  |  |  |  |  |  |  |  | 77.3 ± 1.5 | 0.14 ± 0.05 |  | 33.7 ± 2.3 | 0.13 ± 0.03 |  | 33.2 ± 3.1 | 0.13 ± 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| gi148261486 | chaperonin GroEL |  | 68.3 ± 0.5 | 0.41 ± 0.02 |  | 70.6 ± 1.0 | 0.57 ± 0.03 |  | 74.3 ± 1.7 | 0.71 ± 0.04 |  | 91.3 ± 0.7 | 0.94 ± 0.09 |  | 91.5 ± 1.2 | 0.94 ± 0.04 |
|  | [*Acidiphilium cryptum* JF-5] |  | 25.6 ± 0.8 | 0.21 ± 0.03 |  | 24.0 ± 1.2 | 0.16 ± 0.03 |  | 24.4 ± 2.1 | 0.10 ± 0.02 |  | 43.6 ± 20.2 | 0.06 ± 0.08 |  | 49.4 ± 20.7 | 0.04 ± 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| gi148259108 | dihydroxy-acid dehydratase |  | 65.8 ± 2.2 | 0.41 ± 0.03 |  | 69.2 ± 1.9 | 0.51 ± 0.04 |  | 76.3 ± 1.9 | 0.77 ± 0.05 |  | 91.5 ± 0.5 | 0.97 ± 0.06 |  | 91.7 ± 0.1 | 0.96 ± 0.05 |
|  | [*Acidiphilium cryptum* JF-5] |  | 26.7 ± 1.7 | 0.16 ± 0.02 |  | 24.9 ± 2.1 | 0.12 ± 0.03 |  | 27.1 ± 5.7 | 0.06 ± 0.02 |  | 47.2 ± 21.7 | 0.04 ± 0.03 |  | 69.1 ± 2.9 | 0.11 ± 0.01 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| gi148259766 | 30S ribosomal protein S1 |  | 68.1 ± 2.3 | 0.53 ± 0.05 |  | 70.1 ± 3.2 | 0.67 ± 0.04 |  | 77.0 ± 1.5 | 0.80 ± 0.04 |  | 91.6 ± 0.6 | 0.97 ± 0.06 |  | 92.2 ± 1.2 | 0.93 ± 0.07 |
|  | [*Acidiphilium cryptum* JF-5] |  | 25.7 ± 1.3 | 0.20 ± 0.02 |  | 25.0 ± 2.2 | 0.15 ± 0.02 |  | 26.4 ± 4.1 | 0.10 ± 0.04 |  | 34.2 ± 0.1 | 0.12 ± 0.10 |  | 67.1 ± 3.0 | 0.15 ± 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Average *Acidiphilium cryptum* proteins | |  | 67.4 ± 2.0 | 0.45 ± 0.07 |  | 70.0 ± 2.2 | 0.58 ± 0.07 |  | 75.8 ± 2.0 | 0.76 ± 0.06 |  | 91.5 ± 0.6 | 0.96 ± 0.07 |  | 91.8 ± 1.0 | 0.94 ± 0.06 |
|  |  |  | 26.0 ± 1.3 | 0.19 ± 0.03 |  | 24.6 ± 1.9 | 0.14 ± 0.03 |  | 25.8 ± 4.0 | 0.09 ± 0.03 |  | 43.8 ± 19.1 | 0.06 ± 0.07 |  | 56.2 ± 18.7 | 0.07 ± 0.06 |