Table S9. Candidate genes involved in arginine and proline metabolism.

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| **Gene** | **EC number** | **Number of unique transcripts** |
| Procollagen-proline dioxygenase | 1.14.11.2 | 4 |
| Ornithine carbamoyltransferase | 2.1.3.3 | 1 |
| Ornithine aminotransferase | 2.6.1.13 | 1 |
| Glutamate 5-kinase | 2.7.2.11 | 1 |
| Aspartate transaminase | 2.6.1.1 | 4 |
| Spermine synthase | 2.5.1.22 | 2 |
| Spermidine synthase | 2.5.1.16 | 3 |
| Glutamate-ammonia ligase | 6.3.1.2 | 1 |
| Diamine N-acetyltransferase | 2.3.1.57 | 1 |
| Glutamate-5-semialdehyde dehydrogenase | 1.2.1.41 | 1 |
| Argininosuccinate synthase | 6.3.4.5 | 1 |
| Proline dehydrogenase | 1.5.99.8 | 2 |
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