**Table S2: Primers**

|  |  |  |
| --- | --- | --- |
| **Name** | **Sequence 5′-3′** | **Source** |
| ***mat*K**KIM\_3FKIM-r KIM\_1RKIM-f  | CGTACAGTACTTTTGTGTTTACGAG ACCCAGTCCATCTGGAAATCTTGGTTC  | Ki-Joong Kim, Pers. comm. Ki-Joong Kim, Pers. comm.  |
| ***rbc*La**rbcLa-F rbcLa-R  | ATGTCACCACAAACAGAGACTAAAGCGTAAAATCAAGTCCACCRCG  | (Levin, 2003)(Kress and Erickson, 2007)  |
| **ITS2** ITS2-S2FITS4  | ATGCGATACTTGGTGTGAATGTAAAATCAAGTCCACCRCG  | (Chen et al., 2010)(White et al., 1990)  |

**Table S3: Thermocycler programming for PCR of candidate barcodes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cycle step and number of cycles** | ***mat*K** | ***rbc*La** | **ITS2** |
| Block temp. | Hold time (mm:ss) | Block temp. | Hold time (mm:ss) | Block temp. | Hold time (mm:ss) |
| Init. denat. | 1 | 98 ˚C | 00:45 | 94 ˚C | 04:00 | 94 ˚C | 05:00 |
| DenaturationAnnealingExtension | 35 | 98 ˚C52 ˚C72 ˚C | 00:1000:3000:40 | 94 ˚C55 ˚C72 ˚C | 00:3000:3001:00 | 94 ˚C56 ˚C72 ˚C | 00:3000:3000:45 |
| Final Ext. | 1 | 72 ˚C | 10:00 | 72 ˚C | 10:00 | 72 ˚C | 10:00 |