

Title: Characteristic of primer sets used for qPCR

Legend: Characteristics of primer sets used for identification of *Symbiodinium* clades associated to corals with qPCR assay on 28S amplicons (a) or coral DNA extract (b).

| Primer | Sequence (5'-3') | Amplicon (bp) | Melting temperature (°C) | Genomic DNA | | | 28S PCR products | | |
|----------------------------|-------------------------|---------------------------|--------------------------|-------------------------------|----------------|------------------|------------------|-------------------------------|-----|
| | | | | Specificity ^{S2} (%) | Efficiency (%) | Sensitivity (Ct) | Efficiency (%) | Sensitivity (28S copy number) | |
| <i>Symbiodinium</i> | | | | | | | | | |
| A | SymA-28S F [*] | GATTGTGGCCTTTAGACATACTACC | 126 | 84.8 | 99.88 | 96.8 | 31.9 | 98.7 | 173 |
| | SymA-28S R [*] | CTCTGAGAGCAAGTACCGTGC | | | | | | | |
| B | SymB-28S F [*] | CACATGTCGTGCTGAGATTGC | 108 | 82.0 | 98.54 | 97.4 | 31.3 | 97 | 173 |
| | SymB-28S R [*] | CTCGCATGCTGAGAAACTG | | | | | | | |
| C | SymC-28S F [*] | TTGCTGAGATTGCTGTAGGCT | 124 | 83.5 | 99.97 | 100 | 31.3 | 101.2 | 173 |
| | SymC-28S R [*] | TCCTCAAACAGGTGTGGC | | | | | | | |
| D | SymD-28S F [*] | AATGCTTGTGAGCCCTGGTC | 114 | 82.49 | 99.98 | 97.6 | 28.6 | 99.7 | 173 |
| | SymD-28S R [*] | AAGGCAATCCTCATGCGTATG | | | | | | | |
| E | SymE-28S F [*] | CGAGTTTTCACTAGCCTTGTGTG | 99 | 82.7 | 99.99 | 98.7 | 31.0 | 95.1 | 12 |
| | SymE-28S R [*] | AGCGTTGCAGCTGACGAG | | | | | | | |
| F | SymF-28S F [*] | ACAGATCTTGCTGAGATTGCTGTG | 143 | 85.5 | 99.21 | 95.7 | 31.6 | 100.7 | 173 |
| | SymF-28S R [*] | GAAGGCCGTCCTCAAACAGAC | | | | | | | |
| <i>Poyps</i> | | | | | | | | | |
| UnivPolyp-18S F | ATCGATGAAGAACGCAGCCA | 90 | 79.5 | | 101.1 | 30.13 | | | |
| UnivPolyp-18S R | CAAGAGCGCCATTTGCGTTC | | | | | | | | |

* *Yamashita et al. 2011*

^{S2}: Each primer set specificity has been estimated based on values of Ct indicated in the table S2