Table 1. Coral species, collection site location, collection depth, and colony name for colonies.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species | Collection Site  | Latitude | Longitude | Depth (ft) | Colony name |
| *Porites lobata* | Shallow barrier reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.02695 N | 154.774643 W | 1 | Plob1 |
| *Porites lobata* | Shallow barrier reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.02695 N  | 154.774644 W | 1 | Plob2 |
| *Porites lobata* | Shallow barrier reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.02695 N  | 154.774645 W | 1 | Plob3 |
| *Pocillopora verrucosa* | Patch reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.0365 N | 154.765717 W | 33 | Pverr1 |
| *Pocillopora verrucosa* | Patch reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.0365 N | 154.765719 W | 33 | Pverr2 |
| *Pocillopora verrucosa* | Patch reef/lagoon, Kapangamarangi Atoll, Micronesia | 1.02695 N | 154.774645 W | 33 | Pverr3 |
| *Acropora humilis* | Magnetic Bay, Australia | 15.0883 S | 146.8520 E | 5 | Ahum1 |
| *Acropora humilis* | Magnetic Bay, Australia | 15.0883 S | 146.8520 E | 5 | Ahum2 |
| *Acropora humilis* | Magnetic Bay, Australia | 15.0883 S | 146.8520 E | 5 | Ahum3 |
| *Diploria strigosa* | Midpatch reef, Fl Keys, USA | 24.59306 N | 81.39111 W | 18 | Dstrig1 |
| *Diploria strigosa* | Openwater patch reef, Fl Keys, USA | 24.557886 N | 81.436053 W | 20 | Dstrig2 |
| *Diploria strigosa* | Midpatch reef, Fl Keys, USA | 24.562519 N | 81.500666 W | 18 | Dstrig3 |
| *Orbicella faveolata* | Nearshore reef, Fl Keys, USA | 24.59306 N | 81.39111 W | 9 | Ofav1 |
| *Orbicella faveolata* | Reef flat, Fl Keys, USA | 24.606054 N |  81.429342 W | 19 | Ofav2 |
| *Orbicella faveolata* | Midpatch reef, Fl Keys, USA | 24.59306 N | 81.39111 W | 18 | Ofav3 |
| *Orbicella faveolata* | Reef flat, Fl Keys, USA | 24.562519 N | 81.500666 W | 17 | Ofav4 |
| *Montastraea cavernosa* | Reef flat, Fl Keys, USA | 24.59306 N | 81.39111 W | 18 | Mcav1 |
| *Montastraea cavernosa* | Openwater patch reef, Fl Keys, USA | 24.557886 N |  81.436053 W | 21 | Mcav2 |
| *Montastraea cavernosa* | Midpatch reef, Fl Keys, USA | 24.562519 N | 81.500666 W | 17 | Mcav3 |
| *Montastraea annularis* | Openwater patch reef, Fl Keys, USA | 24.557886 N | 81.436053 W | 22 | Mann1 |
| *Montastraea annularis* | Midpatch reef, Fl Keys, USA | 24.562519 N | 81.500666 W | 18 | Mann2 |
| *Montastraea annularis* | Openwater patch reef, Fl Keys, USA | 24.557886 N | 81.436053 W | 23 | Mann3 |

Table 2: PCR efficiency displayed for each colony and extraction method.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Treatment | PS | PP | PB | VG | PG | VGl |
| Plob1 | + | + | + | + | + | + |
| Plob2 | + | - | + | - | - | + |
| Plob3 | + | + | + | + | - | + |
| Pverr1 | + | - | + | + | + | X |
| Pverr2 | + | - | - | + | + | + |
| Pverr3 | - | - | + | + | + | X |
| Ahum1 | - | - | + | + | + | + |
| Ahum2 | - | - | + | + | + | X |
| Ahum3 | - | + | + | + | + | + |
| Ofav1 | + | - | + | + | + | + |
| Ofav2 | + | - | + | + | + | + |
| Ofav3 | - | - | + | + | + | + |
| Ofav4 | + | - | + | + | + | + |
| Mcav1 | + | - | + | + | + | - |
| Mcav2 | - | - | - | - | + | + |
| Mcav3 | - | - | + | - | + | + |
| Mann1 | - | - | + | + | + | + |
| Mann2 | - | - | + | + | + | + |
| Mann3 | - | - | + | + | + | + |
| Dstrig1 | - | - | - | + | - | - |
| Dstrig2 | - | - | - | + | - | - |
| Dstrig3 | + | - | + | + | + | + |
| PCR Efficiency | 45% | 14% | 82% | 86% | 82% | 84% |

PCR efficiency was calculated as the percentage of successfully amplified bands of the correct size (292 bp, including primers) out of the total number of samples that were subjected to PCR for each extraction treatment.

‘+’= band present, ‘-‘=band absent, ‘X’= no sample.