**Table S1** Data sources

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Family** | **Species** | **Source** | **Data type** | **# ortholog** |
| **Complex** | Acroporidea | *Acropora millepora* | Moya et al, 20121 | Transcriptome | 1609 |
|  | Acroporidea | *Acropora digitifera* | Shinzato et al. 20112 | Genome | Primer/Reference |
|  | Poritidea | *Porites australiensis* | Shinzato et al. 20143 | Transcriptome | 1296 |
| **Robust** | Fungiidae | *Fungia scutaria* | Meyer and Weis lab4 | Transcriptome | 1511 |
|  | Pocilloporidae | *Madracis auretenra* | Meyer and Weis lab4 | Transcriptome | 1442 |
|  | Montastraeidae | *Montastraea cavernosa* | Meyer and Weis lab4 | Transcriptome | 1505 |
|  | Pocilloporidae | *Pocillopora damicornis* | Traylor-Knowles et al. 20115 | Transcriptome | 1203 |
|  | Merulinidae | *Platygyra carnosus* | Sun et al. 20136 | Transcriptome | 1561 |
|  | Favinae | *Pseudodiploria strigosa* | Meyer and Weis lab4 | Transcriptome | 1358 |
| **Corallimorph** | Corallimorphidae | *Corynactis australis* | Lin et al. submitted. | Transcriptome | 1481 |
|  | Discosomatidae | *Rhodactis indosinesis* | Lin et al. submitted. | Transcriptome | 1261 |
|  | Ricordeidae | *Ricordea yuma* | Lin et al. submitted. | Transcriptome | 1401 |
| **Actiniaria** |  | *Nematostella vectensis* | NCBI PRJNA19965 | Genome | Primer |
|  |  | *Anthopleura elegantissima* | Meyer and Weis lab4 | Transcriptome | 1448 |
| **Octocorallia** |  | *Gorgonia ventalina* | Colleen et al. 20137 | Transcriptome | 1421 |
| **Hydra** |  | *Hydra magnipapillata* |  | Genome | Primer |

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