Table S1: LSU rRNA primer sequences

Name	Sequence (5'-3')	Reference
F63mod	ACCCGCTGAAYTTAAGCATATHANTMAG	[1]
28S-350rv	CTTTCCCTCACGGTACTTG	this study
28S-560rv	CTTTCAACGGYTTCACGTGC	this study
28S-C2-fwd	GAAAAGAACTTTGRARAGAGAGT	[2]
28S-D2-rev	TCCGTGTTTCAAGACGGG	[2]
NL4F	GACCCGAAAGATGGTGAACTA	[3]
NL4R	ACCTTGGAGACCTGATGCG	[3]
28S-1260fw	ATTCTCAAACTTTAAATBGGTAAG	this study
28S-1340rv	CATCGCCAGTTCTGCTTAC	this study
28S-1810fw	CGAAAGGGAATCGGGTTAATATTCC	this study
28S-2490fw	CAACCAAGCGCGGGTAAACG	this study
28S-2570rv	AATCTCGTTAATCCATTCATGC	this study
28S-2634fw	TCAAAGTGAAGAAATTCAACCAAGC	this study
R3264	TTCYGACTTAGAGGCGTTCAG	[1]

Additional references

1. Medina M, Collins AG, Silberman JD, Sogin ML (2001) Evaluating hypotheses of basal animal phylogeny using complete sequences of large and small subunit rRNA. Proc Natl Acad Sci USA 98: 9707-9712.
2. Chombard C, Boury-Esnault N, Tillier S (1998) Reassessment of homology of morphological characters in tetractinellid sponges based on molecular data. Syst Biol 47: 351-366.
3. Nichols SA (2005) An evaluation of support for order-level monophyly and interrelationships within the class Demospongiae using partial data from the large subunit rDNA and cytochrome oxidase subunit I. Mol Phylogenet Evol 34: 81-96.