TABLE S2 | Genbank codes of the taxa used to construct the phylogenetic tree. Vouchers without associated publications, but registered in GenBank, are highlighted in bold.

Taxa	GenBank access number	References
Canthigaster figueiredoi Moura & Castro, 2002	KT832864 JQ681776	**Cartagena *et al*. (2015)** Santini *et al*. (2013)
Canthigaster rostrata (Bloch, 1786)	GU224739 JQ842808 JQ681783	Valdez-Moreno *et al*. (2010) Weigt *et al*. (2012) Santini *et al*. (2013)
Lagocephalus laevigatus (Linnaeus, 1766)	KC959926 JQ681797 KF930019	Amaral *et al*. (2013) Santini *et al*. (2013) **Bentley, Wiley (2013)**
Lagocephalus lagocephalus (Linnaeus, 1758)	KX586199 JQ681798 JF730882	Oliveira *et al*. (2016) Santini *et al*. (2013) **Wu, Liu (2011)**
Sphoeroides dorsalis Longley, 1934	JQ681809 KF930452 MH378569	Santini *et al*. (2013) **Bentley, Wiley (2013)** **Redmond *et al*. (2018)**
Sphoeroides greeleyi Gilbert, 1900	JQ365573 MW589063 MW589059	Ribeiro *et al*. (2012) Goldenberg-Barbosa *et al*. (2019) Goldenberg-Barbosa *et al*. (2019)
Sphoeroides pachygaster (Müller & Troschel, 1848)	EU074596 KT833057 MG559769	Mabragaña *et al*. (2011) **Cartagena *et al*. (2015)** Vella *et al*. (2017)
Sphoeroides psittacus (Bloch & Schneider, 1801)	KC959925 JQ681794 KT832957	Amaral *et al*. (2013) Santini *et al*. (2013) **Cartagena *et al*. (2015)**
Sphoeroides spengleri (Bloch, 1785)	GU225449 JQ841398 JQ681816	Valdez-Moreno *et al*. (2010) Weigt *et al*. (2012) Santini *et al*. (2013)
Sphoeroides testudineus (Linnaeus, 1758)	GU225453 KC959928 JQ365576	Valdez-Moreno *et al*. (2010) Amaral *et al*. (2013) Ribeiro *et al*. (2012)
Sphoeroides tyleri Shipp, 1972	KY402465 HM424134 KT832974	**Matias *et al*. (2016)** Ribeiro *et al*. (2012) **Cartagena *et al*. (2015)**
Outgroup		
Monacanthus ciliatus (Mitchill, 1818)	HM390069 JN312708 HQ987849	**iBOL Data Release (2010)** **iBOL Data Release (2011a)** **iBOL Data Release (2011b)**

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