Supplement Table 1. List of taxa and sequences used for phylogenetic analysis. Sequences generated during the present study are in bold.

Дополнительная Таблица 1. Список таксонов и сиквенсов, использованных для филогенетического анализа. Сиквенсы, полученные в ходе настоящей работы, показаны жирным шрифтом.

	12S	16S	18S	28S	COIII
Actinauge richardi	EU190719	EU190761	EU190850	KJ483055	FJ489480
Actinernus elongatus	KJ482930	KJ482966	KJ483023	KJ483126	
Actinia fragacea	EU190714	EU190756	EU190845	KJ483085	GU473334
Actinia tenebrosa	KT852045	KT852111	KT852174		KT852330
Actinostola chilensis		GU473285	GU473302	KJ483110	GU473357
Actinostola crassicornis		EU190753	EU190843	KJ483098	GU473332
Actinostola faeculenta 1	MZ569933	MZ567242	MZ569908	MZ569961	MZ576864
Actinostola faeculenta 2	MZ569935	MZ567244	MZ569910	MZ569963	MZ576866
Actinostola faeculenta 3	MZ569936	MZ567245	MZ569911		MZ576867
Actinostola faeculenta 4	MZ569943	MZ567252	MZ569916	MZ569967	MZ576874
Actinostola georgiana	KJ482928	KJ482952	KJ483032	KJ483099	KJ482991
Actinostola sp. 2 LV82	MZ569931	MZ567240	MZ569907	MZ569959	MZ576862
Actinostola sp. 29 LV82	MZ569932	MZ567241		MZ569960	MZ576863
Actinostola sp. 62 LV82	MZ569938	MZ567247	MZ569912	MZ569964	MZ576869
Actinostola sp. 63 LV82	MZ569939	MZ567248			MZ576870
Actinostola sp. 64 LV82	MZ569940	MZ567249	MZ569913		MZ576871
Actinostola sp. 66 LV82	MZ569941	MZ567250	MZ569914	MZ569965	MZ576872
Actinostola sp. 67 LV82	MZ569942	MZ567251	MZ569915	MZ569966	MZ576873
Actinostola sp. Kamchatka		MZ567255	MZ569917	MZ569970	MZ576877
Actinothoe sphyrodeta	FJ489401	FJ489421	FJ489440	FJ489455	FJ489481
Adamsia palliata	FJ489398	FJ489419	FJ489436	KJ483101	FJ489474
Aiptasia couchii	KP761199	KP761254	KP761301		KP761405
Aiptasia mutabilis	JF832963	FJ489418	FJ489438	KJ483115	FJ489505
Alicia mirabilis	KP761213		KP761310	KP761329	KP761410
Alicia sansibarensis	KJ482933	KJ482953	KJ483016	KJ483116	KJ483000
Allantactis parasitica	FJ489399	FJ489420	FJ489439	KJ483056	FJ489478
Alvinactis chessi	GU473278	GU473296	GU473312	KJ483052	GU473352
Amphianthus sp.	FJ489413	FJ489432	FJ489450	FJ489467	FJ489502
Andvakia boninensis	EU190717	EU190759	EU190848	KJ483053	FJ489479
Anemonia erythraea	KY789302	KY789335			KY789271
Anemonia viridis	EU190718	EU190760	EU190849	EU190806	GU473335
Antholoba achates Argentina	GU473269	GU473284	GU473301	KJ483128	GU473356
Antholoba achates Chile	KR051002_12S	KR051002_16S			KR051002_COIII
Antholoba fabiani Brazil	OR014502	OR000444	OR470688	OR001827	OR069378
Anthopleura anjunae	KY789324			KY789388	KY789289
Anthopleura anneae	KY789327	KY789360		KY789392	KY789293
Anthopleura artemisia	KT852015	KT852081	KT852148		KT852300
Anthopleura atodai	KT851993	KT852055	KT852123	KT852247	KT852275
Anthopleura ballii	KY789311	KY789346		KY789376	KY789281
Anthopleura biscayensis	KY789315	KY789350			KY789284
Anthopleura buddemeieri	KY789316	KY789351		KY789381	
Anthopleura dixoniana	KY789307	KY789341			KY789276

Anthopleura dowii	KY789318	KY789353		KY789383	KY789286
Anthopleura elegantissima	EU190713	EU190755	EU190844	KT852248	GU473333
Anthopleura fuscoviridis	KY789303	KY789336		KY789369	KY789272
Anthopleura handi	KT852013	KT852079	KT852146	KY789387	KT852298
Anthopleura insignis	KY789331	KY789364		KY789395	KY789297
Anthopleura japonica	KY789310	KY789345			KY789280
Anthopleura krebsi	KY789305	KY789339		KY789372	KY789275
Anthopleura kurogane Japan	KY789323	KY789356			
Anthopleura kurogane Korea	KY789321	KY789355		KY789385	KY789288
Anthopleura nigrescens	KY789309	KY789344		KY789375	KY789279
Anthopleura nigrescens Galapagos		KY789343		KY789373	KY789278
Anthopleura pallida	KY789308	KY789342			KY789277
Anthopleura rosea	KT852039	KT852104	KT852168		KT852324
Anthopleura sola		KY789365			
Anthopleura sp. Green		KY789337		KY789370	KY789273
Anthopleura sp. *inornata*	KY789304	KY789338		KY789371	KY789274
Anthopleura sp. South Africa	KY789329	KY789362		KY789393	KY789295
Anthopleura thallia	KY789333	KY789366		KY789397	KY789300
Anthopleura variata	OR882882	OR882857	OR882861	OR882865	OR865724
Anthopleura waridi	KY789301	KY789334		KY789368	KY789270
Anthopleura xanthogrammica		KY789367		KY789398	
Anthosactis janmayeni	KJ482938	GU473292	GU473308	KJ483091	GU473363
Anthostella stephensoni	JQ810719	JQ810721	JQ810723	KJ483132	JQ810726
Anthothoe chilensis	FJ489397	FJ489416	FJ489434	FJ489453	FJ489470
Aulactinia incubans	KT852014	KT852080	KT852147	KT852256	KT852299
Aulactinia reynaudi	KT852041	KT852106	KT852170	KT852260	KT852326
Aulactinia stella Barents	KT310208	JQ927444			KT310207
Aulactinia stella Kamch		MW491958		MW491996	
Aulactinia stella KolaP		MW491959		MW491997	
Aulactinia stella L D	KT852044	KT852110	KT852173	KT852263	KT852329
Aulactinia stella Pacific 1	KT310188	KT310198			KT310210
Aulactinia stella Pacific 2	KT310189	KT310199			KT310211
Aulactinia stella Pacific 5	KT310192	KT310202			KT310214
Aulactinia vancouverensis Alaska	**PP946958**	**PP946944**	**PP946951**	**PP946965**	**PP951986**
Aulactinia vancouverensis BC	**PP946959**	**PP946959**	**PP946952**	**PP946966**	**PP951987**
Aulactinia vancouverensis L	KT852019	KT852085	KT852151		KT852305
Aulactinia verrucosa	EU190723	EU190766	EU190854	KT852250	FJ489484
Bartholomea annulata	EU190721	EU190763	EU190851	KJ483068	FJ489483
Bathyphellia australis	FJ489402	FJ489422	EF589063	EF589086	FJ489482
Bellactis ilkalyseae		KP761238	KP761316		KP761393
Bolocera kerguelensis	KJ482925	KJ482965	KJ483029		KJ482985
Bunodeopsis globulifera	KJ482940	KJ482949	KJ483025	KJ483122	KJ482992
Bunodosoma californicum	KY789312	KY789347		KY789377	
Bunodosoma capense	KY789332			KY789396	KY789298
Bunodosoma cavernatum	KY789313	KY789348		KY789378	KY789282
Bunodosoma grande	EU190722	EU190765	EU190853	KJ483083	GU473336
Bunodosoma granuliferum	KY789314	KY789349		KY789379	KY789283

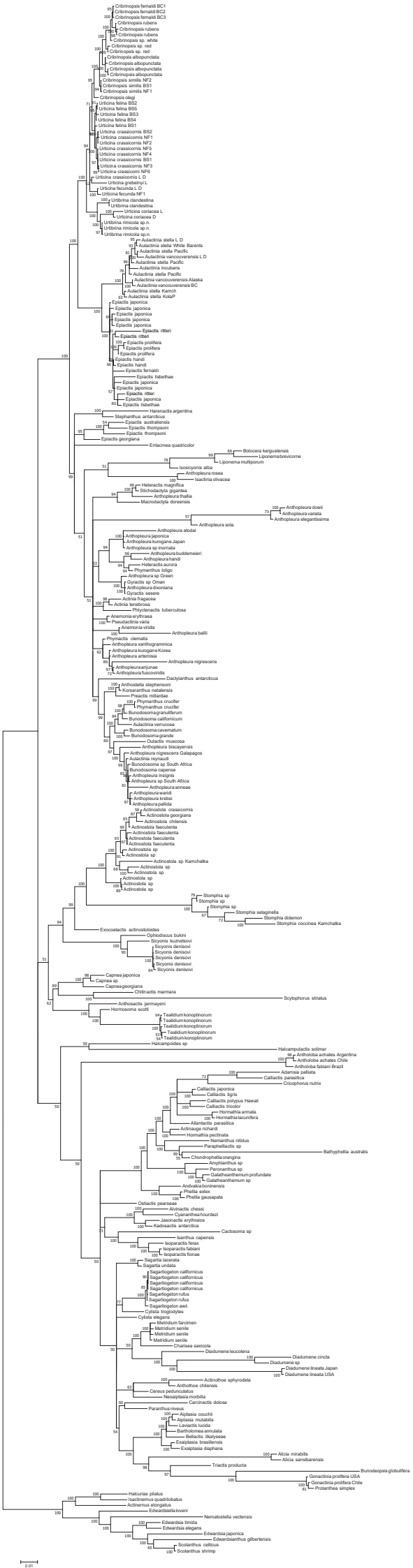
Bunodosoma sp. South Africa	KY789330	KY789363		KY789394	KY789296
Cactosoma sp.	GU473279	GU473297	GU473313	GU473329	GU473346
Calliactis japonica	FJ489403	FJ489423	FJ489441	KJ483057	FJ489486
Calliactis parasitica	EU190711	EU190752	EU190842	KJ483102	FJ489475
Calliactis polypus Hawaii	FJ489407	FJ489427	FJ489445	KJ483058	FJ489485
Calliactis tigris	MK801512	MK801514	MK801510	MK801516	MK801561
Calliactis tricolor	FJ489405	FJ489425	FJ489443	KJ483059	FJ489488
Capnea georgiana		KJ482951	KJ483022	KJ483050	KJ482990
Capnea japonica	LC602145	LC602146	LC602147	LC602148	LC602149
Capnea sp.	**PP902548**	**PP902553**	**PP902558**	**PP902563**	**PP915636**
Carcinactis dolosa	MN266878	MN266877	MN266880	MN266874	MN295038
Cereus pedunculatus	EU190724	EU190767	EU190855	EU190813	FJ489471
Charisea saxicola	KT852020	KT852086	KT852152		KT852306
Chitinactis marmara	MT676806	MT676783	MT676785	MT676789	
Chondrophellia orangina	FJ489406	FJ489426	FJ489444	KJ483060	FJ489489
Cribrinopsis albopunctata 1	MH385362	MH385367	MH376912	MH380005	MK304506
Cribrinopsis albopunctata 2	MH385362	MH385367	MH376912	MH380006	MK304506
Cribrinopsis albopunctata 3	MH385362	MH385367	MH376913	MH380006	MK304506
Cribrinopsis albopunctata 4	**PP902549**	**PP902554**	**PP902559**	**PP902564**	**PP915637**
Cribrinopsis fernaldi BC1	MH385364	MH385369	MH376917	MH380009	MK304508
Cribrinopsis fernaldi BC2	MH385364	MH385369	MH376918	MH380010	MK304508
Cribrinopsis fernaldi BC3	MH385364	MH385369	MH376918	MH380011	MK304508
Cribrinopsis olegi	MH385361	MH385366	MH376911	MH380004	MK304505
Cribrinopsis rubens 1	MH385363	MH385368	MH376914	MH380007	MK304507
Cribrinopsis rubens 2	MH385363	MH385368	MH376915	MH380008	MK304507
Cribrinopsis rubens 3	MH385363	MH385368	MH376916	MH380008	MK304507
Cribrinopsis similis BS1	MH385365	MH385370	MH376919	MH380012	MK304509
Cribrinopsis similis NF1	MK287981	MK307748	MK307728	MK307740	MK304514
Cribrinopsis similis NF2	MK287981	MK307748	MK307729	MK307741	MK304514
Cribrinopsis sp. red 1	**PP902550**	**PP902555**	**PP902560**	**PP902565**	**PP915638**
Cribrinopsis sp. red 2	**PP902551**	**PP902556**	**PP902561**	**PP902566**	**PP915639**
Cribrinopsis sp. white	**PP902552**	**PP902557**	**PP902562**	**PP902567**	**PP915640**
Cricophorus nutrix		KT852066	KT852134		KT852286
Cyananthea hourdezi	GU473275	GU473293	GU473309	KJ483081	GU473364
Cylista elegans		JF832970	JF832989	JF832994	JF833012
Cylista troglodytes	EU190746	KT852107	EU190872	KT852261	FJ489499
Dactylanthus antarcticus	GU473272	AY345877	AF052896	KJ483086	GU473358
Diadumene cincta	EU190725	EU190769	EU190856	KJ483106	FJ489490
Diadumene leucolena	JF832957	JF832977	JF832986	KJ483123	JF833006
Diadumene lineata Japan	JF832965	JF832973	JF832987	KJ483107	JF833007
Diadumene lineata USA	EU190730	EU190774	EU190860	KJ483108	FJ489506
Diadumene sp.	JF832960	JF832976	JF832980	KJ483130	JF833005
Edwardsia elegans	EU190726	EU190770		KJ483087	GU473338
Edwardsia japonica	GU473274	GU473288	GU473304	KJ483048	GU473359
Edwardsia timida	GU473281	KT852113	GU473315	KT852265	KT852332
Edwardsianthus gilbertensis	EU190728	EU190772	EU190859	EU190817	
Edwardsiella loveni	KX946216	KX946212	KX946218	KX946219	KX946217
Entacmea quadricolor	MK519405	MK519459	MK519568	MK519643	MK522443

Epiactis australiensis	KT852000	KT852062	KT852130		KT852282
Epiactis fernaldi	KT852005	KT852068	KT852136	KT852252	KT852288
Epiactis georgiana	KT852007	KT852070	KT852138	KT852254	KT852290
Epiactis handi	KT851988	KT852050	KT852118	KT852245	KT852269
Epiactis handi 1	KT852002	KT852064	KT852132	KT852251	KT852284
Epiactis japonica 1	KT851991	KT852053	KT852121		KT852272
Epiactis japonica 2	KT852025	KT852090	KT852155		KT852310
Epiactis japonica 3	KY789317	KY789352		KY789382	KY789285
Epiactis japonica 4	KT852048	KT852116	KT852178		KT852333
Epiactis japonica Pacific 1	KT310193	KT310203			KT310215
Epiactis japonica Pacific 2	KT310194	KT310204			KT310215
Epiactis japonica Pacific 3	KT310195	KT310205			KT310215
Epiactis japonica Pacific 4	KT310196	KT310206			KT310215
Epiactis lisbethae 1	KT852006	KT852069	KT852137	KT852253	KT852289
Epiactis lisbethae 2	EU190727	EU190771		EU190816	GU473360
Epiactis prolifera 1	KT851989	KT852051	KT852119	KT852246	KT852270
Epiactis prolifera 2	KT852003	KT852065	KT852133		KT852285
Epiactis prolifera 3	KY789320	KY789354		KY789384	KY789287
Epiactis ritteri 1	KT851994	KT852056	KT852124		KT852276
Epiactis ritteri 2	KT851995	KT852057	KT852125		KT852277
Epiactis ritteri 3	KT852022	KT852088	KT852154		KT852308
Epiactis thompsoni 1	KT852010	KT852073	KT852141		KT852293
Epiactis thompsoni 2	KT852011	KT852074	KT852142		KT852294
Exaiptasia brasiliensis	KP761188	KP761239	KP761312		KP761386
Exaiptasia diaphana	KP761176	KP761226	KP761280	KP761327	KP761376
Exocoelactis actinostoloides	KP793003	KP793004			
Galatheanthemum profundale	KJ482919	KJ482954	KJ483011	KJ483119	KJ482978
Galatheanthemum sp	KJ482918	KJ482955	KJ483012	KJ483065	KJ482977
Gonactinia prolifera Chile	KJ482935		KJ483008	KJ483112	KJ482994
Gonactinia prolifera USA	KJ482937	KJ482969	KJ483009	KJ483077	KJ482995
Gyractis sesere	KT852012	KT852078	KT852145	KY789386	KT852297
Gyractis sp. Oman	KY789325	KY789357		KY789390	KY789290
Halcampoides sp.	MZ569946	MZ567256	MZ569918	MZ569971	MZ576878
Halcampulactis solimar	MK279362	MK279363	MK279364		MK279366
Halcurias pilatus	KJ482931	KJ482967	KJ483020	KJ483109	KJ482997
Harenactis argentina	KJ482926	KJ482964	KJ483026	KJ483047	KJ482984
Heteractis aurora	MK519414	MK519469			MK522453
Heteractis magnifica	EU190732	EU190777		KJ483093	KJ482988
Hormathia armata	EU190731	EU190775	EU190861	KJ483062	FJ489491
Hormathia lacunifera	FJ489409	FJ489428	FJ489446	KJ483063	FJ489492
Hormathia pectinata	FJ489415	FJ489430	FJ489448	FJ489465	FJ489497
Hormosoma scotti	EU190733	EU190778	EU190863	KJ483090	GU473366
Isactinernus quadrilobatus	KJ482932	KJ482968	KJ483024	KJ483105	KJ482998
Isactinia olivacea		KT852077	KT852144		KT852296
Isanthus capensis	JF832967	GU473291	GU473307	KJ483096	GU473362
Isoparactis fabiani	JF832964	GU473283	GU473300	KJ483124	GU473355
Isoparactis ferax	KC700002		KC700005	KC700006	KC700008
Isoparactis fionae	KC700001	KC700003	KC700004		KC700007

Isosicyonis alba		KJ482959			KJ482981
Jasonactis erythraios		GU473289	GU473305	KJ483079	GU473339
Kadosactis antarctica	FJ489410	EU190782	EU190865	KJ483080	FJ489504
Korsaranthus natalensis	KJ482920	KJ482958	KJ483017	KJ483117	KJ482987
Laviactis lucida	KP761192	KP761243	KP761296		KP761402
Liponema brevicorne	EU190738	EU190784	EU190866	KJ483139	KJ483001
Liponema multiporum	KJ482922	KJ482962			
Macrodactyla doreensis	EU190739	EU190785			GU473342
Metridium farcimen	MT893228	MT893265			MT896170
Metridium senile 1	KT852024	EU190786	AF052889	EU190829	FJ489494
Metridium senile 2	JF832962	JF832971	JF832981	JF832991	JF833002
Metridium senile 3	KJ482916	KJ482950		KJ483113	KT852309
Nemanthus nitidus	EU190741	EU190787	EU190868	KJ483064	FJ489495
Nematostella vectensis	EU190750	AY169370	AF254382	KJ483089	FJ489501
Neoaiptasia morbilla	EU190742	EU190788		KJ483075	JF833010
Ophiodiscus bukini		MZ567263	MZ569925	MZ569978	MZ576885
Ostiactis pearseae	EU190751	EU190798	EU190878	KJ483082	GU473365
Oulactis muscosa	KT852033	KT852097	KT852162	KY789391	KT852317
Paranthus niveus	GU473277	GU473295	GU473311	KJ483072	
Paraphelliactis sp.	FJ489412	FJ489431	FJ489449	FJ489466	FJ489498
Peronanthus sp.	KJ482917	KJ482956	KJ483014	KJ483066	KJ482976
Phellia exlex	JF832958	JF832978	JF832984	KJ483121	JF833004
Phellia gausapata	EU190744	EU190790	EU190870	EU190833	FJ489473
Phlyctenactis tuberculosa	KY789326	KY789359			KY789292
Phymactis clematis		KY789358			KY789291
Phymanthus crucifer 1	KJ910343	KJ910345	MH670399	MH670928	KJ910346
Phymanthus crucifer 2	KJ910344	KJ910345	MH670402		KJ910346
Phymanthus loligo	EU190745	EU190791			GU473345
Preactis millardae	KJ482921	KJ482957	KJ483018	KJ483118	KJ482986
Protanthea simplex	KJ482939	KJ482970	KJ483010	KJ483078	KJ482993
Pseudactinia varia	KY789328	KY789361			KY789294
Sagartia lacerata	EU190748	EU190794	EU190874	KJ483071	FJ489500
Sagartia undata	FJ489400	FJ489417	FJ489435	KJ483070	FJ489472
Sagartiogeton awii	GU473271	GU473286	GU473303	KJ483074	GU473337
Sagartiogeton californicus 1	OP766354	OP766348	OP766366	OP766360	OP750423
Sagartiogeton californicus 2	OP766355	OP766349	OP766367	OP766361	OP750424
Sagartiogeton californicus 3	OP766356	OP766350	OP766368	OP766362	OP750425
Sagartiogeton californicus 4	OP766357	OP766351	OP766369	OP766363	OP750426
Sagartiogeton rufus 1	OP766352	OP766346	OP766364	OP766358	OP750421
Sagartiogeton rufus 2	OP766353	OP766347	OP766365	OP766359	OP750422
Scolanthus celticus	MN200251	MN200244	MN200240	MN200243	MN196672
Scolanthus shrimp	MN200242	MN200264	MN200245	MN200241	MN196671
Scytophorus striatus	MT737290	MT676781	MT676784	MT676788	
Sicyonis denisovi 1	MZ569947	MZ567257	MZ569919	MZ569972	MZ576879
Sicyonis denisovi 2	MZ569948	MZ567258	MZ569920	MZ569973	MZ576880
Sicyonis denisovi 3	MZ569949	MZ567259	MZ569921	MZ569974	MZ576881
Sicyonis denisovi 4	MZ569950	MZ567260	MZ569922	MZ569975	MZ576882
Sicyonis denisovi 5	MZ569951	MZ567261	MZ569923	MZ569976	MZ576883

Sicyonis kuznetsovi	MZ569952	MZ567262	MZ569924	MZ569977	MZ576884
Stephanthus antarcticus	KJ482927	KJ482960	KJ483019	KJ483092	KJ482983
Stichodactyla gigantea	EU190747	EU190793		EU190835	KY789299
Stomphia coccinea Kamchatka	MZ569945	MZ567254		MZ569969	MZ576876
Stomphia didemon	KJ482929	EU190795	EU190875	KJ483127	GU473348
Stomphia selaginella	GU473280	GU473298	GU473314	GU473331	GU473349
Stomphia sp. 43 LV82	MZ569934	MZ567243	MZ569909	MZ569962	MZ576865
Stomphia sp. 61 LV82	MZ569937	MZ567246			MZ576868
Stomphia sp. 74 LV82	MZ569944	MZ567253		MZ569968	MZ576875
Tealidium konoplinorum 1	MZ569954	MZ567264	MZ569926	MZ569979	MZ576886
Tealidium konoplinorum 2	MZ569955	MZ567265	MZ569927	MZ569980	MZ576887
Tealidium konoplinorum 3	MZ569956	MZ567266	MZ569929	MZ569982	MZ576889
Tealidium konoplinorum 4	MZ569957	MZ567267	MZ569928	MZ569981	MZ576888
Tealidium konoplinorum 5	MZ569958	MZ567268	MZ569930	MZ569983	MZ576890
Triactis producta			EU190876	KJ483125	
Urtibrina clandestina 1	**PP946960**	**PP946946**	**PP946953**	**PP946967**	**PP951988**
Urtibrina clandestina 2	**PP946961**	**PP946947**	**PP946954**	**PP946968**	**PP951989**
Urtibrina rimicola sp.n. 1	**PP946962**	**PP946948**	**PP946955**	**PP946969**	**PP951990**
Urtibrina rimicola sp.n. 2	**PP946963**	**PP946949**	**PP946956**	**PP946970**	**PP951991**
Urtibrina rimicola sp.n. 3	**PP946964**	**PP946950**	**PP946957**	**PP946971**	**PP951992**
Urticina coriacea D		EU190797	EU190877	EU190840	
Urticina coriacea L		KT852114	KT852176	KT852266	
Urticina crassicornis BS1	MK287979	MK307743	MK307724	MK307731	MK304511
Urticina crassicornis BS2	MK287979	MK307744	MK307724	MK307732	MK304511
Urticina crassicornis L D	KT851997	KT852059	KT852127		KT852279
Urticina crassicornis NF1	MK287979	MK307745	MK307725	MK307733	MK304512
Urticina crassicornis NF2	MK287979	MK307746	MK307726	MK307733	MK304512
Urticina crassicornis NF3	MK287979	MK307745	MK307725	MK307734	MK304512
Urticina crassicornis NF4	MK287979	MK307745	MK307726	MK307734	MK304512
Urticina crassicornis NF5	MK287979	MK307743	MK307726	MK307734	MK304512
Urticina crassicornis NF6	MK287979	MK307743	MK307725	MK307734	MK304512
Urticina fecunda L D	KT852004	KT852067	KT852135		KT852287
Urticina fecunda NF1		MK307749	MK307730	MK307742	
Urticina felina BS1	MK287980	MK307747	MK307727	MK307735	MK304513
Urticina felina BS2	MK287980	MK307747	MK307727	MK307736	MK304513
Urticina felina BS3	MK287980	MK307747	MK307727	MK307737	MK304513
Urticina felina BS4	MK287980	MK307747	MK307727	MK307738	MK304513
Urticina felina BS5	MK287980	MK307747	MK307727	MK307739	MK304513
Urticina grebelnyi L	KT852034	KT852098	KT852163		KT852318

Supplement Fig. 1. ML phylogenetic tree based on contacenated datasheet, see text for details. Numbers indicate bootstrap values for Maximum Likelihood.



Supplement Fig. 2. Phylogenetic tree represented by Bayesian Inference. Numbers represent posterior probabilities (x100).