

Supplementary Table 1. Host and geographic information and data output for each pool of invertebrate samples

Library	Short Name	Host Classification	Host species (No. of individual)	Sample type	Locations (Habitat)	Data generated (bp)	Library accession
Cockroaches ^a	ZL	Arthropoda: Insecta	<i>Blattella germanica</i> (22)	Whole individual	Hubei (Terrestrial)	6,182,028,000	SRX833674
Coleoptera mix Hubei	QCM	Arthropoda: Insecta	<i>Coleoptera</i> sp. (24), <i>Holotrichia</i> sp. (3), <i>Harmonia axyridis</i> (2), <i>Apriona germari</i> (2), <i>Harpalus</i> sp (1).	Whole individual	Hubei (Terrestrial)	9,108,100,600	SRR3400834
Conehead cricket mix Hubei (subset of ZCM)	WHLC	Arthropoda: Insecta	<i>Conocephalus</i> sp.(4)	Whole individual	Hubei (Terrestrial)	2,450,413,000	SRR3400836
Cricket mix Hubei (subset of ZCM)	WHXS	Arthropoda: Insecta	<i>Gryllidae</i> sp.(3)	Whole individual	Hubei (Terrestrial)	3,707,111,000	SRR3400837
Diptera mix Hubei	SCM	Arthropoda: Insecta	<i>Drosophila immigrans</i> (3), <i>Episyrphus balteatus</i> (3), <i>Diptera</i> sp (2 species, 5-10 individuals), <i>Sarcophaga</i> sp, <i>Muscina stabulans</i> (5-10), <i>Ptecticus tenebrifer</i> (5-10), <i>Ptecticus</i> sp (5-10)	Whole individual	Hubei (Terrestrial)	9,662,701,600	SRR3400838
Earwig mix Hubei	GCM	Arthropoda: Insecta	<i>Dermaptera</i> sp.(10)		Hubei (Terrestrial)	3,759,661,600	SRR3400839
Flea and ants mix Hubei (subset of arthropodmix)	WHZM	Arthropoda: Insecta	<i>Ctenocephalides felis</i> (10-15), <i>Tetramorium tsushimae</i> (N/A)	Whole individual	Hubei (Terrestrial)	1,680,999,000	SRR3400840
Freshwater heteroptera Shahe (subset of SHWCII)	SHWC01c	Arthropoda: Insecta	<i>Heteroptera</i> sp.(12)	Whole individual	Beijing (Freshwater)	3,045,273,000	SRR3400841
Heteroptera mix Hubei (subset of arthropodmix)	WHYCM	Arthropoda: Insecta	<i>Heteroptera</i> sp.(10)	Whole individual	Hubei (Terrestrial)	3,702,569,600	SRR3400891
Horseflies ^a	Horsefly	Arthropoda: Insecta	<i>Tabanidae</i> sp. (5 species, 22 individuals)	Whole individual	Hubei (Terrestrial)	8,721,642,060	SRX833673
Insects mix 1 ^a	InsectZJ	Arthropoda: Insecta	<i>Abraxas tenuisuffusa</i> (1), <i>Hermetia illucens</i> (N/A), <i>Chrysopidae</i> sp (2), <i>Coleoptera</i> sp. (1), <i>Psychoda alternata</i> (1), <i>Diptera</i> sp. (N/A), <i>Stratiomyidae</i> sp (2)	Whole individual	Zhejiang (Terrestrial)	7,745,172,660	SRX833685
Insects mix 2 ^a	CC	Arthropoda: Insecta	<i>Hippoboscidae</i> sp. (2 species, 10-15 individuals), <i>Cimex hemipterus</i> (8)	Whole individual	Hubei (Terrestrial)	5,916,431,520	SRX833687
Insects mix 4 ^a	WHCCII	Arthropoda: Insecta	<i>Psychoda alternata</i> (3), <i>Velarifictorus micado</i> (4), <i>Crocothemis servilia</i> (1), <i>Phoridae</i> sp (1), <i>Lampyridae</i> sp (1), <i>Aphelinus</i> sp (~10), <i>Hyalopterus pruni</i> (~10), <i>Aulacorthum magnolia</i> (~10)	Whole individual	Hubei (Terrestrial)	6,882,491,800	SRX833692
Lepidoptera mix Hubei	LCM	Arthropoda: Insecta	<i>Helcyra</i> sp (1), <i>Papilio polytes</i> (1), <i>Pieris rapae</i> (6), <i>Nolidae</i> sp. (1), <i>Stauropus basalus</i> (2), <i>Peridea</i> sp (1), <i>Amraica superans</i> (1), <i>Calliteara</i> sp. (1), <i>Lymantriidae</i> sp. (1), <i>Noctuidae</i> sp. (4), <i>Clostera anastomosis</i> (1), <i>Hypomecis punctinalis</i> (1), <i>Eumorphobotys</i> sp (1), <i>Micromelalopha sieversi</i> (1)	Whole individual	Hubei (Terrestrial)	7,038,068,800	SRR3400941
Mosquitoes - Hubei S (subset of mosHB)	3mos	Arthropoda: Insecta	<i>Culex tritaeniorhynchus</i> (5-10), <i>Armigeres subalbatus</i> (5-10)	Whole individual	Hubei (Terrestrial)	5,629,066,740	SRR3401027
Mosquitoes - Hubei ^a	mosHB	Arthropoda: Insecta	<i>Aedes</i> sp. (5), <i>Armigeres subalbatus</i> (~50), <i>Anopheles sinensis</i> (~60), <i>Culex quinquefasciatus</i> (~50), <i>Culex tritaeniorhynchus</i> (~30)	Whole individual	Hubei (Terrestrial)	26,606,799,000	SRX833542
Mosquitoes - Zhejiang ^a	mosZJ	Arthropoda: Insecta	<i>Aedes albopictus</i> (5), <i>Armigeres subalbatus</i> (~30), <i>Anopheles paraliae</i> (~10), <i>Anopheles sinensis</i> (~20), <i>Culex pipiens</i> (~30), <i>Culex</i> sp. (~10), <i>Culex tritaeniorhynchus</i> (~70)	Whole individual	Zhejiang (Terrestrial)	7,233,954,480	SRX833670
Odonata mix Hubei	QTM	Arthropoda: Insecta	<i>Paracercion melanotum</i> (9), <i>Paracercion calamorum</i> (5), <i>Ceragrion auranticum</i> (10), <i>Brachydiplax chalybea</i> (2), <i>Orthetrum albistylum</i> (1), <i>Pseudothemis zonata</i> (6), <i>Chironomus</i> sp (1)	Whole individual	Hubei (Terrestrial)	9,226,350,400	SRR3401072
Orthoptera mix Hubei ^a	ZCM	Arthropoda: Insecta	<i>Orthoptera</i> sp (3), <i>Conocephalus</i> sp (4), <i>Gryllidae</i> sp.(3)	Whole individual	Hubei (Terrestrial)	7,042,417,800	SRX1029952
True flies ^a	Fly	Arthropoda: Insecta	<i>Atherigona orientalis</i> (2), <i>Chrysomya megacephala</i> (6), <i>Lucilia sericata</i> (1), <i>Musca domestica</i> (11), <i>Sarcophaga dux</i> (1), <i>S. peregrine</i> (1), <i>S. sp.</i> (1)	Whole individual	Hubei (Terrestrial)	6,574,954,320	SRX833672
Water striders ^a	SXSSP	Arthropoda: Insecta	<i>Gerridae</i> sp. (2 species, 12 individuals)	Whole individual	Hubei (Land/Freshwater)	3,154,714,200	SRX833675
Horseshoe crab mix Beihai	HOU	Arthropoda: Chelicerata	<i>Carcinoscorpius rotundicauda</i> (8), <i>Tachypleus tridentatus</i> (4)	Whole individual	Guangxi (Costal/Marine)	13,357,396,400	SRR3401116
Spiders ^a	spider	Arthropoda: Chelicerata	<i>Neoscona nautica</i> (14), <i>Parasteatoda tepidariorum</i> (3), <i>Plexippus setipes</i> (3), <i>Pirata</i> sp. (1), <i>Araneae</i> sp (8).	Whole individual	Hubei (Terrestrial)	11,361,912,300	SRX833697
<i>Tetragnatha maxillosa</i> mix Hubei (subset of arthropodmix)	SSZZ	Arthropoda: Chelicerata	<i>Tetragnatha maxillosa</i> (2)	Whole individual	Hubei (Land/Freshwater)	2,933,255,400	SRR3401144

Tick <i>Rhipicephalus microplus</i>^a	microplus	Arthropoda: Chelicerata	<i>Rhipicephalus microplus</i> (5)	Whole individual	Hubei (Terrestrial)	1,080,824,801	-
Ticks <i>Hyalomma asiaticum</i>^a	Liyampi	Arthropoda: Chelicerata	<i>Hyalomma asiaticum</i> (3)	Whole individual	Xinjiang (Terrestrial)	2,006,000,100	SRX833696
Ticks^a	Tick	Arthropoda: Chelicerata	<i>Dermacentor marginatus</i> (4), <i>Dermacentor</i> sp (2), <i>Haemaphysalis doenitzii</i> (3), <i>H. longicornis</i> (4), <i>H. sp.</i> (2), <i>H. formosensis</i> (4), <i>Hyalomma asiaticum</i> (8), <i>Rhipicephalus microplus</i> (6), <i>Argas miniatus</i> (2)	Whole individual	Hubei, Zhejiang, Beijing, Xinjiang (Terrestrial)	24,708,479,580	SRX833694
House centipede mix Hubei (subset of arthropodmix)	WHYY	Arthropoda: Myriapoda	<i>Scutigera</i> sp.(2)	Whole individual	Hubei (Terrestrial)	2,543,734,600	SRR3401181
Millipedes^a	WHWG	Arthropoda: Myriapoda	<i>Polydesmidae</i> sp. (2 species, 12 individuals)	Whole individual	Hubei, Beijing (Terrestrial)	7,176,702,400	SRX833700
Myriapoda mix Hubei^a	WGML	Arthropoda: Myriapoda	<i>Diplopoda</i> sp. (7), <i>Otostigmus scaber</i> (4), <i>Scolopocryptops</i> sp (3), <i>Otostigmus scaber</i> (1), <i>Myriapoda</i> sp (1).	Whole individual	Hubei (Terrestrial)	7,337,861,800	SRX1029951
Barnacle mix Beihai^a	BHTH	Arthropoda: Crustacea	<i>Amphibalanus rhizophorae</i> (12)	Whole individual (Shell excluded)	Guangxi (Costal/Marine)	6,150,114,400	SRX1029956
Blue swimmer crab mix Beihai	YYSZX	Arthropoda: Crustacea	<i>Portunus</i> sp.(12)	Representative tissues from gill, various glands, and muscle	Beihai (Costal/Marine)	6,903,426,200	SRR3401268
<i>Charybdis</i> crab mix Beihai	BHXun	Arthropoda: Crustacea	<i>Charybdis</i> sp.(12)	Representative tissues from gill, various glands, muscle, and stomach (cleaned)	Guangxi (Costal/Marine)	6,439,342,400	SRR3401303
<i>Charybdis</i> crab mix Wenzhou	WZRBX	Arthropoda: Crustacea	<i>Charybdis hellerii</i> (2), <i>Charybdis japonica</i> (9), <i>Charybdis lucifera</i> (1)	Representative tissues from gill, various glands, muscle, and stomach (cleared)	Zhejiang (Costal/Marine)	5,871,404,400	SRR3401356
Crayfish mix Changjiang	CJLX	Arthropoda: Crustacea	<i>Procambarus clarkia</i> (12)	Major organs in the head and gut (cleaned)	Hubei (Freshwater)	5,235,384,200	SRR3401357
Crustacean mix Wenling	WLJQ	Arthropoda: Crustacea	<i>Brachyura</i> sp. (2 species, 6), <i>Achelata</i> sp. (3), <i>Penaeoidea</i> sp. (2 species, 3), <i>Ibacus novementatus</i> (3), <i>Anomura</i> sp. (3), <i>Penaeidae</i> sp. (2), <i>Charybdis bimaculata</i> (3), <i>Charybdis rufodactylus</i> (3), <i>Latreillidae</i> sp. (2 species, 3), <i>Ovalipes punctatus</i> (3)	Representative tissues from gill, various glands, muscle, and stomach/gut (cleared)	Zhejiang (Costal/Marine)	12,635,742,600	SRR3401358
Fiddler crab mix Beihai	BFZCX	Arthropoda: Crustacea	<i>Uca borealis</i> (12)	Whole individual	Guangxi (Costal/Marine)	2,798,966,000	SRR3401359
Freshwater atyid shrimp Sanxia	SXXX	Arthropoda: Crustacea	<i>Atyidae</i> sp. (10)	Whole individual	Hubei (Freshwater)	6,994,006,000	SRR3401361
Freshwater isoptera Shahe (subset of SHWCII)	SHWC0209c	Arthropoda: Crustacea	<i>Daphnia magna</i> (N/A), <i>Daphnia carinata</i> (N/A), <i>Moina macrocopa</i> (N/A)	Whole individual	Beijing (Freshwater)	3,629,030,800	SRR3401363
Hermit crab mix Beihai	BHJJX	Arthropoda: Crustacea	<i>Anomura</i> sp. (2 species, 12 individuals)	Representative tissues from gill, various glands, muscle, and stomach/gut (cleared)	Guangxi (Costal/Marine)	5,901,889,800	SRR3401367
Mantis shrimp mix Beihai	BHXG	Arthropoda: Crustacea	<i>Miyakea</i> sp.(12)	Representative tissues from gill, various glands, muscle, and gut (cleared)	Guangxi (Costal/Marine)	2,942,421,800	SRR3401372
Penaeid shrimp mix Beihai I	BHBIDX	Arthropoda: Crustacea	<i>Penaeidae</i> sp. (4 species, 12 individuals)	Representative tissues from gill, various glands, muscle, and gut (cleared)	Guangxi (Costal/Marine)	5,585,967,800	SRR3401376
Penaeid shrimp mix Beihai II	BHWZXX	Arthropoda: Crustacea	<i>Penaeidae</i> sp. (12)	Representative tissues from gill, various glands, muscle, and gut (cleared)	Guangxi (Costal/Marine)	5,818,589,600	SRR3401379
Pillworm mix Hubei	WHSFII	Arthropoda: Crustacea	<i>Armadillidium vulgare</i> (12), <i>Armadillidium</i> sp. (N/A)	Whole individual	Hubei (Terrestrial)	8,006,953,800	SRR3401380
Pillworm mix Hubei PolyA^b	WHSF	Arthropoda: Crustacea	<i>Armadillidium vulgare</i> (12), <i>Armadillidium</i> sp. (N/A)	Whole individual	Hubei (Terrestrial)	3,004,821,000	SRR3401383

Sesamid crab mix Beihai	SCJXSX	Arthropoda: Crustacea	<i>Perisesarma bidens</i> (8)	Representative tissues from gill, various glands, muscle, and stomach (cleared)	Guangxi (Costal/Marine)	6,176,296,400	SRR3401386
Shrimps ^a	Shrimp	Arthropoda: Crustacea	<i>Exopalaemon carinicauda</i> (12), <i>Metapenaeus</i> sp. (6), <i>Solenocera crassicornis</i> (6), <i>Penaeus monodon</i> (12), <i>Litopenaeus vannamei</i> (12)	Representative tissues from gill, various glands, muscle, and gut	Zhejiang (Costal/Marine)	5,365,359,900	SRX833698
Tiger crab mix Beihai	HWRTX	Arthropoda: Crustacea	<i>Orithyia</i> sp.(12)	Representative tissues from gill, various glands, muscle, and stomach (cleared)	Guangxi (Costal/Marine)	4,795,618,600	SRR3401390
Wharf roach mix Beihai	BHHZL	Arthropoda: Crustacea	<i>Ligia exotica</i> (12)	Whole individual	Guangxi (Costal/Marine)	7,045,711,200	SRR3401392
Woodlouse mix Beihai	BHTSS	Arthropoda: Crustacea	<i>Sphaeroma</i> sp. (11), <i>Isopoda</i> sp.(1)	Whole individual	Guangxi (Costal/Marine)	6,651,427,000	SRR3401395
Arthropod mix Hubei ^a	Arthropodmix	Arthropoda	<i>Cicadellidae</i> sp. (10), <i>Tetragnatha maxillosa</i> (1), <i>Heteroptera</i> sp. (10), <i>Scutigera</i> sp. (2), <i>Ctenocephalides felis</i> (10-15), <i>Tetramorium tsushimae</i> (N/A)	Whole individual	Hubei (Terrestrial)	7,768,505,600	SRX1029954
Freshwater arthropod Shahe	SHWCII	Arthropoda	<i>Heteroptera</i> sp. (12), <i>Daphnia magna</i> (N/A), <i>Daphnia carinata</i> (N/A), <i>Moina macrocopa</i> (N/A)	Whole individual	Beijing (Freshwater)	13,203,058,800	SRR3401396
Freshwater arthropod Shahe PolyA (same pool as Freshwater arthropod Shahe) ^b	SHWC	Arthropoda	<i>Heteroptera</i> sp. (12), <i>Daphnia magna</i> (N/A), <i>Daphnia carinata</i> (N/A), <i>Moina macrocopa</i> (N/A)	Whole individual	Beijing (Freshwater)	6,709,741,800	SRR3401397
Insects mix 3 ^a	WHCC	Arthropoda	<i>Pseudothemis zonata</i> (2), <i>Nepidae</i> sp (2 species, 3), <i>Camponotus japonicus</i> (~5), <i>Diplonychus</i> sp (2), <i>Asellus</i> sp (N/A)	Whole individual	Hubei (Terrestrial)	11,973,368,200	SRX833688
Chicken gut roundworm mix Hubei	WHJHC	Nematoda	<i>Ascaridia galli</i> (1)	Whole individual	Hubei (Terrestrial)	2,927,034,400	SRR3401442
Chicken gut roundworm mix Shayang	SYJFC	Nematoda	<i>Ascaridia galli</i> (15)	Whole individual	Hubei (Terrestrial)	6,544,479,600	SRR3401450
Common pheasant gut roundworm mix	JMYJCC	Nematoda	<i>Ascaridia</i> sp. (20)	Whole individual	Hubei (Terrestrial)	6,882,381,600	SRR3401460
Large pig roundworm mix Hubei	WHZHC	Nematoda	<i>Ascaris suum</i> (10)	Whole individual	Hubei (Terrestrial)	6,813,270,000	SRR3401464
Romanomermis nematode mix Wuchang	WCLSXC	Nematoda	<i>Romanomermis</i> sp.(N/A)	Front, middle, and rear section of the worm	Hubei (Terrestrial)	6,901,779,600	SRR3401495
Roundworm mix Hubei	HC	Nematoda	<i>Ascaridia galli</i> (1), <i>Ascaris suum</i> (6)	Front, middle, and rear section of the worm	Hubei (Terrestrial)	5,125,628,600	SRR3401500
Snake-associated nematodes mix Xinzhou	XZSJSC	Nematoda	<i>Nematoda</i> sp. (14), <i>Ascarididae</i> sp.(2)	Whole individual	Hubei (Terrestrial)	6,303,423,200	SRR3401559
Spirurian nematodes mix Hubei	WHSWHC	Nematoda	<i>Spirurida</i> sp1.(4)	Whole individual	Hubei (Terrestrial)	6,210,937,000	SRR3401566
Spirurian nematodes mix Xinshan	XSNXC	Nematoda	<i>Spirurida</i> sp2.(45)	Whole individual	Zhejiang (Terrestrial)	7,004,525,000	SRR3401569
Peanut worms mix Beihai	BHNXC	Sipuncula	<i>Phascolosoma esculenta</i> (12), <i>Sipunculus nudus</i> (12)	Whole individual	Guangxi (Costal/Marine)	7,041,903,800	SRR3401570
Earthworm mix Changping	CPQY	Annelida	<i>Oligochaeta</i> sp. (2 species, 12 individuals)	Whole individual	Beijing (Terrestrial)	2,191,254,200	SRR3401619
Leech mix Hubei	SZmix	Annelida	<i>Whitmania pigra</i> (11)	Inner organs	Hubei (Freshwater)	6,235,167,800	SRR3401621
Sandworms mix Beihai	BHSC	Annelida	<i>Marphysa</i> sp (12), <i>Nereis aiubhitensis</i> (12)	Whole individual	Guangxi (Costal/Marine)	6,114,388,200	SRX1712659
Bivalva mix Beihai PolyA ^b	BHBei	Mollusca	<i>Anadara sativa</i> (12), <i>Crassostrea hongkongensis</i> (12), <i>Anomalocardia producta</i> (12), <i>Solen strictus</i> (12), <i>Paphia undulata</i> (10), <i>Veneridae</i> sp (2).	Visceral mass with gut content removed if possible	Guangxi (Costal/Marine)	6,514,906,000	SRX1712661
Bivalva mix Wenzhou	Beimix	Mollusca	<i>Barbatia virescens</i> (12), <i>Sinonovacula constricta</i> (12), <i>Tegillarca granosa</i> (12), <i>Crassostrea ariakensis</i> (12), <i>Mytilus coruscus</i> (12)	Visceral mass with gut content removed if possible	Zhejiang (Costal/Marine)	8,971,077,600	SRX1712664
Bivalva mix Wenzhou PolyA (same pool as Beimix) ^b	WZSBei	Mollusca	<i>Barbatia virescens</i> (12), <i>Sinonovacula constricta</i> (12), <i>Tegillarca granosa</i> (12), <i>Crassostrea ariakensis</i> (12), <i>Mytilus coruscus</i> (12)	Visceral mass with gut content removed if possible	Zhejiang (Costal/Marine)	5,831,177,600	SRX1712669
Channeled applesnail mix	WZFSL	Mollusca	<i>Pomacea canaliculata</i> (12)	Visceral mass	Zhejiang (Freshwater)	5,978,349,200	SRX1712672

Wenzhou								
Chinese land snail mix Wuhan	WHWN	Mollusca	<i>Mastiguelota kiangsinensis</i> (12)	Visceral mass with gut content removed	Hubei (Land/Freshwater)	6,347,332,000	SRX1712673	
Freshwater shellfish (<i>Unio douglasiae</i>) mix Wuhan	WHBL	Mollusca	<i>Unio douglasiae</i> (12)	Visceral mass with gut content removed	Hubei (Freshwater)	6,105,707,200	SRX1712674	
Gastropoda mix Wenzhou	WZSLuoI	Mollusca	<i>Neverita didyma</i> (12), <i>Chlorostoma turbinatum</i> (12), <i>Turritella bacillum</i> (12), <i>Reishia bronni</i> (12)	Visceral mass with gut content removed if possible	Zhejiang (Costal/Marine)	4,792,141,800	SRX1712690	
Gastropoda mix Wenzhou PolyA (same pool as WZSLuoI) ^b	WZSLuoII	Mollusca	<i>Neverita didyma</i> (12), <i>Chlorostoma turbinatum</i> (12), <i>Turritella bacillum</i> (12), <i>Reishia bronni</i> (12)	Visceral mass with gut content removed if possible	Zhejiang (Costal/Marine)	6,030,622,200	SRX1712699	
Murex snails mix Beihai	BHCL	Mollusca	<i>Chicoreus asianus</i> (12)	Visceral mass with gut content removed	Guangxi (Costal/Marine)	5,674,728,400	SRX1712833	
Octopus mix Beihai	BHZY	Mollusca	<i>Octopodidae sp.</i> (12)	Visceral mass with gut content removed	Guangxi (Costal/Marine)	6,476,318,600	SRX1712836	
<i>Paphia</i> shell mix Beihai	BWBFG	Mollusca	<i>Paphia undulata</i> (10), <i>Veneridae sp.</i> (2)	Visceral mass	Guangxi (Costal/Marine)	4,754,857,000	SRX1712837	
Razor shell mix Beihai	BHZC	Mollusca	<i>Solen strictus</i> (12)	Visceral mass with gut content removed	Guangxi (Costal/Marine)	5,134,546,200	SRX1712840	
<i>Turritella</i> sea snails mix Beihai	BZL	Mollusca	<i>Turritella sp.</i> (12)	Visceral mass with gut content removed	Guangxi (Costal/Marine)	5,294,621,400	SRX1712841	
Blood flukes mix Anhui 1	JSC	Platyhelminthes	<i>Schistosoma mansoni</i> (N/A), <i>Schistosoma japonicum</i> (N/A)	Whole individual	Anhui (Freshwater)	6,229,641,400	SRX1712974	
Blood flukes mix Anhui 2	RBXXC	Platyhelminthes	<i>Schistosoma japonicum</i> (N/A)	Whole individual	Anhui (Freshwater)	7,156,816,600	SRX1712977	
Blood flukes mix Hubei	HBXXC	Platyhelminthes	<i>Schistosoma japonicum</i> (N/A)	Whole individual	Hubei (Freshwater)	7,121,948,800	SRX1712978	
Tapeworm mix Hubei	SGJSC	Platyhelminthes	<i>Taenia sp.</i> (8)	Whole individual	Hubei (Terrestrial)	6,651,705,600	SRX1712979	
Echinoderm mix Beihai	BHJP	Echinodermata	<i>Temnopleurus sp.</i> (3), <i>Dendrochirotida sp.</i> (9)	Inner organs	Guangxi (Costal/Marine)	5,314,194,400	SRX1712980	
Tunicates mix Beihai	BHHQ	Tunicata	<i>Styela plicata</i> (N/A), <i>Stolidobranchia sp.</i> (N/A)	Inner organs	Guangxi (Costal/Marine)	6,111,464,000	SRX1712981	
Sea anemones mix Beihai	BHHK	Cnidaria	<i>Bolocera sp.</i> (12)	Whole individual	Guangxi (Costal/Marine)	4,684,310,400	SRX1712982	

^aThese libraries were described in previous studies^{3,6,9}.

^bThese libraries were prepared using the TruSeq mRNA Library Preparation protocol (Illumina) that only targeted RNA with poly (A) tails.