

Supplementary Table 1. Model organisms used for kmer, reads length and reads quantity tests.

Species	# of Reads	SRA	Length(bp)	Species	# of Reads	SRA	Length(bp)	Species	# of Reads	SRA	Length(bp)
<i>D. melanogaster</i>	15,648,174	SRR6743334	50	<i>C. elegans</i>	24,017,399	SRR4181026	50	<i>M. musculus</i>	33,540,466	SRR10342165	50
<i>D. melanogaster</i>	15,181,806	SRR6743335	50	<i>C. elegans</i>	24,409,279	SRR4181032	50	<i>M. musculus</i>	43,541,512	SRR10342166	50
<i>D. melanogaster</i>	9,857,308	SRR6743336	50	<i>C. elegans</i>	24,694,386	SRR4181033	50	<i>M. musculus</i>	43,440,008	SRR10342167	50
<i>D. melanogaster</i>	15,940,368	SRR6743337	50	<i>C. elegans</i>	26,159,433	SRR4181034	50	<i>M. musculus</i>	33,595,655	SRR9211836	50
<i>D. melanogaster</i>	18,874,930	SRR6743338	50	<i>C. elegans</i>	26,417,070	SRR4181036	50	<i>M. musculus</i>	33,174,108	SRR9211837	50
<i>D. melanogaster</i>	21,169,448	SRR6743339	50	<i>C. elegans</i>	24,711,402	SRR4181037	50	<i>M. musculus</i>	35,030,665	SRR9211838	50
<i>D. melanogaster</i>	16,177,860	SRR6743340	50	<i>C. elegans</i>	40,302,838	SRR1585277	75	<i>M. musculus</i>	34,877,241	SRR9211839	50
<i>D. melanogaster</i>	12,436,324	SRR6743341	50	<i>C. elegans</i>	50,516,835	SRR1585278	75	<i>M. musculus</i>	33,700,156	SRR10067458	75
<i>D. melanogaster</i>	26,395,792	SRR6743342	50	<i>C. elegans</i>	41,947,175	SRR8257107	75	<i>M. musculus</i>	41,236,457	SRR10067459	75
<i>D. melanogaster</i>	87,423,452	SRR8559044	75	<i>C. elegans</i>	44,969,393	SRR8257108	75	<i>M. musculus</i>	35,598,598	SRR10067460	75
<i>D. melanogaster</i>	85,714,154	SRR8559045	75	<i>C. elegans</i>	45,605,396	SRR8257109	75	<i>M. musculus</i>	41,745,958	SRR10067461	75
<i>D. melanogaster</i>	88,252,694	SRR8559046	75	<i>C. elegans</i>	49,743,412	SRR2142254	100	<i>M. musculus</i>	45,329,544	SRR10067462	75
<i>D. melanogaster</i>	82,110,608	SRR8559047	75	<i>C. elegans</i>	38,836,876	SRR2142255	100	<i>M. musculus</i>	44,469,310	SRR10067463	75
<i>D. melanogaster</i>	102,413,880	SRR8559048	75	<i>C. elegans</i>	11,166,310	SRR2015313	100	<i>M. musculus</i>	182,180,123	SRR1017092	100
<i>D. melanogaster</i>	98,529,578	SRR8559049	75	<i>C. elegans</i>	11,626,153	SRR2015311	100	<i>M. musculus</i>	107,280,600	SRR1017093	100
<i>D. melanogaster</i>	30,515,068	SRR3018852	100	<i>C. elegans</i>	12,567,755	SRR2012785	100	<i>M. musculus</i>	127,017,374	SRR1017094	100
<i>D. melanogaster</i>	24,284,630	SRR3018855	100	<i>C. elegans</i>	14,372,593	SRR2012781	100	<i>M. musculus</i>	102,909,165	SRR5171077	100
<i>D. melanogaster</i>	24,773,404	SRR3018862	100	<i>C. elegans</i>	20,345,696	SRR10407359	150	<i>M. musculus</i>	65,372,078	SRR5171085	100
<i>D. melanogaster</i>	30,140,704	SRR3019045	100	<i>C. elegans</i>	19,948,493	SRR10407358	150	<i>M. musculus</i>	27,016,597	SRR5171095	100
<i>D. melanogaster</i>	25,828,680	SRR3019179	100	<i>C. elegans</i>	21,276,093	SRR10407357	150	<i>M. musculus</i>	21,173,335	SRR10560364	150
<i>D. melanogaster</i>	19,049,236	SRR3019184	100	<i>C. elegans</i>	23,993,704	SRR10407356	150	<i>M. musculus</i>	22,731,971	SRR10560365	150
<i>D. melanogaster</i>	8,276,228	SRR10407358	150	<i>C. elegans</i>	25,110,365	SRR10407355	150	<i>M. musculus</i>	68,712,046	SRR8329325	150
<i>D. melanogaster</i>	47,552,414	SRR7716077	150	<i>C. elegans</i>	22,967,010	SRR10407354	150	<i>M. musculus</i>	59,012,049	SRR8329326	150
<i>D. melanogaster</i>	45,807,064	SRR7716078	150					<i>M. musculus</i>	21,930,527	SRR7079069	150
<i>D. melanogaster</i>	29,221,598	SRR7716079	150								
<i>D. melanogaster</i>	46,936,912	SRR7716080	150								

Supplementary Table 2. Kmer test results and statistical tests.

TransPI - BUSCO3			50bp (A) 25,29,33						50bp (B) 25,31,35						50bp (C) 25,33,37					
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %			
1 M. musculus	33,540,466	SRR10342165	96.9	85.9	11	1.2	1.9	96.8	86.2	10.6	1.5	1.7	97.5	86.8	10.7	1	1.5			
2 M. musculus	43,541,512	SRR10342166	96.4	85.5	10.9	1.6	2	96.9	86.1	10.8	1.6	1.5	96.5	84.9	11.6	1.8	1.7			
3 M. musculus	43,440,008	SRR10342167	97	86	11	0.9	2.1	96.7	86	10.7	1.3	2	97	85.8	11.2	1	2			
4 M. musculus	33,595,655	SRR9211836	95.8	84.9	10.9	1.7	2.5	95.9	85.9	10	1.7	2.4	95.8	85	10.8	1.8	2.4			
5 M. musculus	33174108	SRR9211837	95	83.1	11.9	2.1	2.9	95.2	84.3	10.9	1.9	2.9	95	83.1	11.9	2	3			
6 M. musculus	35,030,665	SRR9211838	95.5	85.5	10	1.7	2.8	95.7	84.4	11.3	1.7	2.6	95.6	85.4	10.2	1.6	2.8			
7 M. musculus	34,877,241	SRR9211839	95.6	84.5	11.1	1.4	3	95.4	83.7	11.7	1.7	2.9	95.6	83.9	11.7	1.5	2.9			
1 C. elegans	24,017,399	SRR4181026	85.5	77.9	7.6	1.7	12.8	85.4	78.1	7.3	1.8	12.8	85.4	78.2	7.2	1.8	12.8			
2 C. elegans	24,409,279	SRR4181032	85.3	77.6	7.7	1.7	13	85	77.8	7.2	1.8	13.2	85.2	77.6	7.6	1.8	13			
3 C. elegans	24,694,386	SRR4181033	85.3	78.4	6.9	1.8	12.9	85.5	78.9	6.6	1.6	12.9	85.2	79	6.2	1.8	13			
4 C. elegans	26,159,433	SRR4181034	85.7	78.5	7.2	1.5	12.8	85.7	78.6	7.1	1.6	12.7	85.7	78.8	6.9	1.6	12.7			
5 C. elegans	26,417,070	SRR4181036	85.4	79.6	5.8	1.8	12.8	85.5	79.1	6.4	1.6	12.9	85.4	79.3	6.1	1.8	12.8			
6 C. elegans	24,711,402	SRR4181037	85.2	78.2	7	2.1	12.7	85.1	77.9	7.2	2.1	12.8	85.1	78.7	6.4	2.1	12.8			
1 D. melanogast	15,648,174	SRR6743334	44.7	40.6	4.1	7.6	47.7	44.1	39.8	4.3	8.6	47.3	44.5	40.4	4.1	8.2	47.3			
2 D. melanogast	15,181,806	SRR6743335	44.6	41.5	3.1	7.4	48	43.9	40.3	3.4	7.6	48.7	43.7	40.7	3	7.5	48.8			
3 D. melanogast	9,857,308	SRR6743336	37	33.6	3.4	8.1	54.9	36.7	33.7	3.2	7.8	55.3	36.8	33.8	3	8	55.2			
4 D. melanogast	15,940,368	SRR6743337	39.8	36.5	3.3	7	53.2	40	36.8	3.2	6.9	53.1	40.1	37.2	2.9	7.3	52.6			
5 D. melanogast	18,874,930	SRR6743338	48.5	45.5	3	7.5	44	47.5	44.6	2.9	8.1	44.4	47.9	44.8	3.1	8.3	43.8			
6 D. melanogast	21,169,448	SRR6743339	35.1	32.2	2.9	7.8	57.1	34.2	31.3	2.9	8.7	57.1	34.2	31.5	2.7	8.4	57.4			
7 D. melanogast	16,177,860	SRR6743340	41.6	39.1	2.5	7.2	51.2	41.1	38.2	2.9	7.3	51.6	41.7	39	2.7	7.5	50.8			
8 D. melanogast	12,436,324	SRR6743341	40.1	36.8	3.3	7.2	52.7	39.9	36.2	3.7	7.8	52.3	39.7	36.6	3.1	8	52.3			
9 D. melanogast	26,395,792	SRR6743342	66.4	60.6	5.8	6.9	26.7	66.1	60.2	5.9	7.4	26.5	66.4	60.3	6.1	6.9	26.7			
			75bp (A) 25,29,33,41						75bp (B) 25,31,35,43						75bp (C) 25,33,37,45					
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %			
1 M. musculus	33,700,156	SRR10067458	98	84.3	13.7	1.2	0.8	97.7	82.8	14.9	1.3	1	98.1	84.2	13.9	1.1	0.8			
2 M. musculus	41,236,457	SRR10067459	98	82.2	15.8	1	1	98.1	83	15.1	0.8	1.1	98.2	82.6	15.6	0.8	1			
3 M. musculus	35,598,598	SRR10067460	98	82.6	15.4	0.9	1.1	97.9	83.6	14.3	1.1	1	97.8	82.7	15.1	0.9	1.3			
4 M. musculus	41,745,958	SRR10067461	93.9	82.2	11.7	3	3.1	94	82.1	11.9	2.9	3.1	94.1	82.6	11.5	2.9	3			
5 M. musculus	45,329,544	SRR10067462	96.1	82.7	13.4	1.5	2.4	95.8	82.5	13.3	1.7	2.5	95.7	82	13.7	1.9	2.4			
6 M. musculus	44,469,310	SRR10067463	94.5	82.6	11.9	2.4	3.1	94.5	82.6	11.9	2.5	3	94.4	82.5	11.9	2.5	3.1			
1 C. elegans	40,302,838	SRR1585277	86.0	74.0	12.0	1.8	12.2	86.2	74.9	11.3	1.8	12.0	86.1	74.3	11.8	1.9	12.0			
2 C. elegans	50,516,835	SRR1585278	86.2	72.0	14.2	1.7	12.1	86.2	71.5	14.7	1.4	12.4	85.6	71.9	13.7	1.8	12.6			
3 C. elegans	41,947,175	SRR8257107	83.9	78.4	5.5	2.4	13.7	84.2	78.1	6.1	2.2	13.6	84.0	78.0	6.0	2.4	13.6			
4 C. elegans	44,969,393	SRR8257108	83.8	79.2	4.6	1.9	14.3	83.9	79.4	4.5	1.9	14.2	84.1	79.7	4.4	2.0	13.9			
5 C. elegans	45,605,396	SRR8257109	84.1	78.8	5.3	1.9	14.0	84.4	79.9	4.5	2.0	13.6	84.3	79.6	4.7	1.9	13.8			
1 D. melanogast	87,423,452	SRR8559044	97.1	77.5	19.6	1.1	1.8	97.2	77.5	20	0.8	1.7	96.8	79.4	17.4	1.4	1.8			
2 D. melanogast	85,714,154	SRR8559045	97.6	78.8	18.8	0.7	1.7	97.3	80.2	17.1	0.6	2.1	97.2	77.8	19.4	0.8	2			
3 D. melanogast	88,252,694	SRR8559046	96.6	75.6	21	1.2	2.2	96.7	77.5	19.2	0.9	2.4	96.4	78.4	18	1.1	2.5			
4 D. melanogast	82,110,608	SRR8559047	97.4	78.7	18.7	0.6	2	97.7	78.6	19.1	0.5	1.8	97.3	78.5	18.8	0.8	1.9			
5 D. melanogast	102,413,880	SRR8559048	96.8	74.1	22.7	1.1	2.1	96.5	73.8	22.7	1.1	2.4	96.6	75.9	20.7	1.4	2			
6 D. melanogast	96,529,578	SRR8559049	97.6	76.8	20.8	0.8	1.6	97.8	78.3	19.5	0.4	1.8	97.2	78.3	18.9	0.8	2			
			100bp (A) 25,35,47,61						100bp (B) 25,37,55,63						100bp (C) 25,41,57,67					
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %			
1 M. musculus	182,180,123	SRR1017092	96.3	76.3	20	2.1	1.6	96.9	76	20.9	1.6	1.5	96.7	75.1	21.6	1.8	1.5			
2 M. musculus	107,280,600	SRR1017093	97	75.5	21.5	1.7	1.3	96.7	76.7	20	2.6	0.7	97.3	75.2	22.1	1.8	0.9			
3 M. musculus	127,017,374	SRR1017094	97.3	77.2	20.1	1.3	1.4	96.3	76.2	20.1	1.9	1.8	97.4	77	20.4	1.5	1.1			
4 M. musculus	29,992,315	SRR5171077	97.3	79.9	17.4	2.2	0.5	96.9	80.8	16.1	2.9	0.2	97.7	40.3	2.4	19.7	37.6			
5 M. musculus	30,611,590	SRR5171085	97.3	82.2	15.1	2.5	0.2	97.5	82.4	15.1	2	0.5	97.3	79.9	17.4	2.1	0.6			
6 M. musculus	37,729,075	SRR5171095	93.9	50.5	3.4	19.9	26.2	54.1	50.6	3.5	19.5	26.4	53.8	50.9	2.9	20	26.2			
1 C. elegans	49,743,412	SRR2142254	82.3	76.4	5.9	3.3	14.4	82.4	77	5.4	3.3	14.3	82.4	76.7	5.7	3.2	14.4			
2 C. elegans	38,836,876	SRR2142255	82.3	78.6	3.7	2.7	15	82.3	78.8	3.5	2.8	14.9	82.2	77.9	4.3	2.8	15			
3 C. elegans	11,166,310	SRR2015313	67.1	63.9	3.2	13.1	19.8	66.9	63.3	3.6	13.2	19.9	66.6	63.4	3.2	13.9	19.5			
4 C. elegans	11,626,153	SRR2015311	80.4	76.6	3.8	4.6	15	80.5	76.3	4.2	4.5	15	80.5	76.8	3.7	4.4	15.1			
5 C. elegans	12,567,755	SRR2012785	85.3	73	12.3	2.6	12.1	85.1	72.3	12.8	2.6	12.3	85	71.4	13.6	2.7	12.3			
6 C. elegans	14,372,593	SRR2012781	69.6	62.3	7.3	11.3	19.1	69.5	63.2	6.3	11.2	19.3	69.7	63.1	6.6	11.2	19.1			
1 D. melanogast	30,515,068	SRR3018852	95.4	80.2	15.2	1.3	3.3	95.4	78.3	17.1	1.6	3	95.7	78.9	16.8	1.2	3.1			
2 D. melanogast	24,284,630	SRR3018855	95.8	78.6	17.2	0.8	3.4	95.6	78.4	17.2	1	3.4	95.9	79	16.9	0.8	3.3			
3 D. melanogast	24,773,404	SRR3018862	95	80.9	14.1	1.7	3.3	95.3	81	14.3	1.7	3	95.6	82.3	13.3	1.6	2.8			
4 D. melanogast	30,140,704	SRR3019045	95.6	78.9	16.7	1.3	3.1	95.7	79.2	16.5	1.5	2.8	95.3	79.8	15.5	1.5	3.2			
5 D. melanogast	25,828,680	SRR3019179	94.6	80	14.6	1.6	3.8	94.9	81.2	13.7	1.4	3.7	95	80	15	1.5	3.5			
6 D. melanogast	19,049,236	SRR3019184	95.2	80.2	15	1.4	3.4	95	81.5	13.5	1.3	3.7	95.4	81.7	13.7	1	3.6			
			150bp (A) 25,31,41,51,65						150bp (B) 25,33,43,53,71						150bp (C) 25,35,55,75,85					
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %			
1 M. musculus	21,173,335	SRR10560364	97.1	79	18.1	1.4	1.5	97.2	81.5	15.7	1.3	1.5	97.3	81.1	16.2	1.3	1.4			
2 M. musculus	22,731,971	SRR10560365	96.7	78.6	18.1	1.7	1.6	97.1	79.3	17.8	1.2	1.7	97.1	78.8	18.3	1.1	1.8			
3 M. musculus	68,712,046	SRR8329325	94.6	82.6	12	2.7	2.7	94.8	83.1	11.7	3.1	2.1	93.7	83.2	10.5	3.5	2.8			
4 M. musculus	59,012,049	SRR8329326	95.9	81.5	14.4	2.2	1.9	95.6	81.9	13.7	2.6	1.8	95.9	81.4	14.5	2.1	2			
5 M. musculus	21,930,527	SRR7079069	95.7	74.5	21.2	2.4	1.9	95.5	75.2	20.3	2.7	1.8	96.1							

Trinity - BUSCO3			50bp (A) 25,29,33					50bp (B) 25,31,35					50bp (C) 25,33,37				
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1 M. musculus	33,540,466	SRR10342165	95.9	67.8	28.1	3	1.1	95.9	67.3	28.6	3	1.1	95.8	67.1	28.7	3.1	1.1
2 M. musculus	43,541,512	SRR10342166	97	61	36	1.8	1.2	97.1	62.3	34.8	1.8	1.1	97	62	35	1.9	1.1
3 M. musculus	43,440,008	SRR10342167	97.4	62.1	35.3	1.6	1	97.4	62.9	34.5	1.6	1	97.4	62.4	35	1.6	1
4 M. musculus	33,595,655	SRR9211836	93.9	77.8	16.1	3.9	2.2	94	77.8	16.2	3.9	2.1	93.9	77.3	16.6	4	2.1
5 M. musculus	33,174,108	SRR9211837	93.6	79.6	14	3.9	2.5	93.6	79.8	13.8	3.9	2.5	93.6	79.6	14	3.9	2.5
6 M. musculus	35,030,665	SRR9211838	93.6	78.7	14.9	4.1	2.3	93.6	78	15.6	4.1	2.3	93.6	78.5	15.1	4.1	2.3
7 M. musculus	34,877,241	SRR9211839	93.3	78	15.3	4.3	2.4	93.3	77.6	15.7	4.3	2.4	93.3	77.8	15.5	4.3	2.4
1 C. elegans	24,017,399	SRR4181026	84.6	77.4	7.2	2.1	13.3	84.5	77	7.5	2.2	13.3	84.6	77.5	7.1	2.1	13.3
2 C. elegans	24,409,279	SRR4181032	84.9	77.6	7.3	2.5	12.6	84.7	77.5	7.2	2.5	12.8	84.9	77.7	7.2	2.5	12.6
3 C. elegans	24,694,386	SRR4181033	84.7	77.1	7.6	2.7	12.6	84.6	77.2	7.4	2.7	12.7	84.7	77.4	7.3	2.7	12.6
4 C. elegans	26,159,433	SRR4181034	85.1	77	8.1	2.2	12.7	85	77.1	7.9	2.4	12.6	85.1	76.4	8.7	2.2	12.7
5 C. elegans	26,417,070	SRR4181036	85.1	77.3	7.8	2.6	12.3	85.1	77.1	8	2.6	12.3	85	76.8	8.2	2.7	12.3
6 C. elegans	24,711,402	SRR4181037	85.1	78.5	6.6	1.8	13.1	85.1	78.4	6.7	1.8	13.1	85.1	78.4	6.7	1.8	13.1
1 D. melanogast	15,648,174	SRR6743334	41.1	33.5	7.6	14.8	44.1	41.1	33	8.1	14.7	44.2	40.7	32.9	7.8	15.3	44
2 D. melanogast	15,181,806	SRR6743335	38.6	30.5	8.1	16	45.4	38.6	30.2	8.4	15.7	45.7	38.7	31.2	7.5	15.4	45.9
3 D. melanogast	9,857,308	SRR6743336	31.9	26.8	5.1	16.5	51.6	31.9	26.6	5.3	16.6	51.5	31.9	26.3	5.6	16.7	51.4
4 D. melanogast	15,940,368	SRR6743337	35.6	27.3	8.3	13.7	50.7	35.6	27.3	8.3	13.7	50.7	35.4	27.9	7.5	13.9	50.7
5 D. melanogast	18,874,930	SRR6743338	43.3	35.6	7.7	15.6	41.1	43.4	35.4	8	15.3	41.3	43.4	35.3	8.1	15.5	41.1
6 D. melanogast	21,169,448	SRR6743339	31.9	22.9	9	12.4	55.7	32.2	23	9.2	12.7	55.1	32.2	23.2	9	12.2	55.6
7 D. melanogast	16,177,860	SRR6743340	37.8	29.6	8.2	13.2	49	37.9	30.5	7.4	12.7	49.4	38	30	8	12.6	49.4
8 D. melanogast	12,436,324	SRR6743341	35.3	28.6	6.7	14.7	50	36.3	30.5	5.8	14	49.7	36	29.3	6.7	14.6	49.4
9 D. melanogast	26,395,792	SRR6743342	60.7	49.5	11.2	12.2	27.1	60.8	49.1	11.7	12.2	27	60.6	49.3	11.3	12.2	27.2
			75bp (A) 25,29,33,41					75bp (B) 25,31,35,43					75bp (C) 25,33,37,45				
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1 M. musculus	33,700,156	SRR10067458	97.9	65.4	32.5	1.5	0.6	98.1	66.7	31.4	1.4	0.5	98.2	66.1	32.1	1.3	0.5
2 M. musculus	41,236,457	SRR10067459	98.5	58.4	40.1	1	0.5	98.6	59.8	38.8	0.9	0.5	98.4	58.2	40.2	1	0.6
3 M. musculus	35,598,598	SRR10067460	98.6	60.2	38.4	0.6	0.8	98.6	61.3	37.3	0.6	0.8	98.8	59.6	39.2	0.6	0.6
4 M. musculus	41,745,958	SRR10067461	93.6	51.1	42.5	4.1	2.3	93.4	51.2	42.2	4.3	2.3	93.4	52	41.4	4.3	2.3
5 M. musculus	45,329,544	SRR10067462	96.4	54.6	41.8	1.8	1.8	96.4	54.1	42.3	1.8	1.8	96.3	55.4	40.9	1.9	1.8
6 M. musculus	44,469,310	SRR10067463	94	52.2	41.8	3.7	2.3	94	52.2	41.8	3.7	2.3	93.9	52.1	41.8	3.9	2.2
1 C. elegans	40,302,838	SRR1585277	86.2	69.7	16.5	2.1	11.7	86.2	70.2	16	2.1	11.7	86.2	69.4	16.8	2.1	11.7
2 C. elegans	50,516,835	SRR1585278	86.4	68.8	17.6	1.8	11.8	86.3	68.5	17.8	1.8	11.9	86.5	69.4	17.1	1.8	11.7
3 C. elegans	41,947,175	SRR8257107	84.8	75.6	9.2	2.4	12.8	84.7	75.4	9.3	2.4	12.9	84.7	75.8	8.9	2.4	12.9
4 C. elegans	44,969,393	SRR8257108	84.7	75.6	9.1	1.9	13.4	84.7	75.7	9	1.9	13.4	84.7	75.1	9.6	1.9	13.4
5 C. elegans	45,605,396	SRR8257109	85.1	75.8	9.3	1.7	13.2	85	76.4	8.6	1.7	13.3	85.1	76.2	8.9	1.7	13.2
1 D. melanogast	87,423,452	SRR8559044	98	57.1	40.9	0.8	1.2	97.9	58.6	39.3	0.9	1.2	97.9	58.5	39.4	0.9	1.2
2 D. melanogast	85,714,154	SRR8559045	98.5	54.1	44.4	0.6	0.9	98.4	53.5	44.9	0.7	0.9	98.5	54.6	43.9	0.6	0.9
3 D. melanogast	88,252,694	SRR8559046	98.3	52.5	45.8	0.6	1.1	98.4	53.5	44.9	0.5	1.1	98.4	53.1	45.3	0.5	1.1
4 D. melanogast	82,110,608	SRR8559047	98.1	54.7	43.4	0.7	1.2	97.9	55	42.9	0.8	1.3	98.1	54.4	43.7	0.7	1.2
5 D. melanogast	102,413,880	SRR8559048	98.3	49.2	49.1	0.8	0.9	98.3	49.7	48.6	0.8	0.9	98.3	49.4	48.9	0.8	0.9
6 D. melanogast	96,529,578	SRR8559049	98.2	55.4	42.8	0.8	1	98.2	56.6	41.6	0.9	0.9	98.3	55.8	42.5	0.8	0.9
			100bp (A) 25,35,47,61					100bp (B) 25,37,55,63					100bp (C) 25,41,57,67				
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1 M. musculus	182,180,123	SRR1017092	98.9	34.3	64.6	0.8	0.3	98.9	31.5	67.4	0.8	0.3	98.7	32.9	65.8	0.9	0.4
2 M. musculus	107,280,600	SRR1017093	98.8	35.2	63.6	0.9	0.3	99.2	34.7	64.5	0.5	0.3	98.9	35.4	63.5	0.5	0.6
3 M. musculus	127,017,374	SRR1017094	99.1	33.6	65.5	0.5	0.4	99.1	35	64.1	0.6	0.3	98.9	33.8	65.1	0.7	0.4
4 M. musculus	102,909,165	SRR5171077	43.3	34.7	8.6	30.4	26.3	43.2	34.5	8.7	30.5	26.3	43.4	34.4	9	30.3	26.3
5 M. musculus	65,372,078	SRR5171085	98.1	40.3	57.8	1.8	0.1	98	39.5	58.5	1.9	0.1	98	41.5	56.5	1.8	0.2
6 M. musculus	27,016,597	SRR5171095	55.3	39.6	15.7	28.2	16.5	55.7	40.8	14.9	27.7	16.6	55.3	40.6	14.7	28.1	16.6
1 C. elegans	49,743,412	SRR2142254	82.1	68.8	13.3	3.9	14	82.1	67.8	14.3	3.9	14	82	68.2	13.8	3.9	14.1
2 C. elegans	38,836,876	SRR2142255	82.1	70.9	11.2	3.3	14.6	82.1	69.6	12.5	3.3	14.6	82.1	70.8	11.3	3.3	14.6
3 C. elegans	11,166,310	SRR2015313	63.5	46	17.5	17.2	19.3	63.5	45.8	17.7	17.2	19.3	63.5	46.1	17.4	17.2	19.3
4 C. elegans	11,626,153	SRR2015311	79.4	59.5	19.9	6	14.6	79.5	60.1	19.4	5.9	14.6	79.3	59.5	19.8	6	14.7
5 C. elegans	12,567,753	SRR2012785	85.7	68.9	16.8	2.6	11.7	85.7	67.6	18.1	2.6	11.7	85.7	68.1	17.6	2.6	11.7
6 C. elegans	14,372,593	SRR2012781	69.4	59.1	10.3	12.7	17.9	69.4	58.2	11.2	12.7	17.9	69.3	58.7	10.6	12.8	17.9
1 D. melanogast	30,515,068	SRR3018852	97.2	61.2	36	0.6	2.2	97.2	60.9	36.3	0.6	2.2	97.3	61	36.3	0.5	2.2
2 D. melanogast	24,284,630	SRR3018855	96.5	62.1	34.4	3	2.5	96.6	64	32.6	1	2.4	96.6	62.8	33.8	1	2.4
3 D. melanogast	24,773,404	SRR3018862	96.9	64.9	32	1.2	1.9	97	64.6	32.4	1.1	1.9	96.9	63.9	33	1.1	2
4 D. melanogast	30,140,794	SRR3018945	97	61.5	35.5	0.9	2.1	97.1	61.7	35.4	0.8	2.1	97	60.2	36.8	0.9	2.1
5 D. melanogast	25,828,680	SRR3019179	96.6	34.6	61	1.1	2.3	96.4	62.8	33.6	1.1	2.5	96.6	35	61.6	1.1	2.3
6 D. melanogast	19,049,236	SRR3019184	96.3	62	28.9	1.3	2.4	96.4	66.8	29.6	1.3	2.3	96.4	66.8	29.6	1.3	2.3
			150bp (A) 25,31,41,51,65					150bp (B) 25,33,43,53,71					150bp (C) 25,35,55,75,85				
N°Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1 M. musculus	21,173,335	SRR10560364	98.4	48.7	49.7	0.6	12	98.4	47.8	50.6	0.6	1	98.4	48.8	49.6	0.6	1
2 M. musculus	22,731,971	SRR10560365	98.6	45.3	53.3	0.7	0.7	98.5	45.9	52.6	0.6	0.9	98.5	46.7	51.8	0.6	1.3
3 M. musculus	68,712,046	SRR8329325	95.5	39.9	56.2	3.2	1.3	95.5	38.1	57.4	3.2	1.3	95.5	38.5	57	3.2	1.3
4 M. musculus	59,012,04																

TransPi - BUSCO4				50bp (A) 25,29,33					50bp (B) 25,31,35					50bp (C) 25,33,37				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	33,540,466	SRRI0342165	96.8	86.5	10.3	0.8	2.4	96.6	86.9	9.7	1.2	2.2	97.1	87.1	10	0.7	2.2
2	M. musculus	43,541,512	SRRI0342166	96.4	86.5	9.9	1.2	2.4	96.7	86.8	9.9	1	2.3	96.5	85.4	11.1	1	2.5
3	M. musculus	43,440,008	SRRI0342167	97	86.8	10.2	0.7	2.3	96.8	87.5	9.3	1	2.2	97.1	86.8	10.3	0.8	2.1
4	M. musculus	33,595,655	SRR9211836	95.5	86.1	9.4	0.9	3.6	95.8	87	8.8	0.8	3.4	96.2	86.2	9.2	1	3.6
5	M. musculus	33,174,108	SRR9211837	93.8	84.6	9.2	1.9	4.3	93.9	85	8.9	2	4.1	94	84.5	9.5	1.9	4.1
6	M. musculus	35,030,665	SRR9211838	94.9	86.4	8.5	1.5	3.6	95.2	85.6	9.6	1.3	3.5	95.3	86.6	8.7	1.3	3.4
7	M. musculus	34,877,241	SRR9211839	94.6	85.2	9.4	1.4	4	94.8	84.1	10.7	1.4	3.8	94.8	84.4	10.4	1.4	3.8
1	C. elegans	24,017,399	SRRA4181026	75.2	70.2	5	2.7	22.1	75.4	70.6	4.8	2.6	22	75.2	70.4	4.8	2.7	22.1
2	C. elegans	24,409,279	SRRA4181032	75.4	70.3	5.1	2.2	22.4	75.2	70.1	5.1	2.2	22.6	75.5	69.8	5.7	2.2	22.3
3	C. elegans	24,694,386	SRRA4181033	75.7	71	4.7	2.2	22.1	76	72.1	3.9	2.2	21.8	75.8	71.6	4.2	2.2	22
4	C. elegans	26,159,433	SRRA4181034	75.7	70.4	5.3	2.3	22	76.1	70.6	5.5	2.1	21.8	75.9	71	4.9	2.3	21.8
5	C. elegans	26,417,070	SRRA4181036	75.6	71.1	4.5	2.1	22.3	75.8	70.9	4.9	2	22.2	75.9	70.9	5	2	22.1
6	C. elegans	24,711,402	SRRA4181037	75.3	69.6	5.7	2.4	22.3	75.3	69.6	5.7	2.3	22.4	75.1	70	5.1	2.3	22.6
1	D. melanogasti	15,648,174	SRRA6743334	39.4	36.8	2.6	5.9	54.7	39.5	36.6	2.9	6.5	54	39.8	37.1	2.7	6	54.2
2	D. melanogasti	15,181,806	SRRA6743335	38.4	36.8	1.6	6.4	55.2	38.1	36.3	1.8	5.8	56.1	37.9	36.2	1.7	6.4	55.7
3	D. melanogasti	9,857,308	SRRA6743336	30.6	28.5	2.1	6.7	62.7	30.1	27.9	2.2	6.5	63.4	30.1	28.4	1.7	6.6	63.3
4	D. melanogasti	15,940,368	SRRA6743337	34.3	31.9	2.4	4.5	61.2	33.5	31.1	2.4	5	61.5	34.6	32.6	2	4.9	60.5
5	D. melanogasti	18,874,930	SRRA6743338	42.7	40	2.7	6.4	50.9	41.8	39.1	2.7	6.9	51.3	42.5	40.1	2.4	6.6	50.9
6	D. melanogasti	21,169,448	SRRA6743339	29.8	28.1	1.7	6.7	63.5	29.7	28.2	1.5	7.1	63.2	29.5	28.2	1.3	6.2	64.3
7	D. melanogasti	16,177,860	SRRA6743340	37.7	35.5	2.2	5.3	57	37.1	35	2.1	5.1	57.8	38.2	36.5	1.7	4.8	57
8	D. melanogasti	12,436,324	SRRA6743341	33.5	30.8	2.7	6.4	60.1	33.7	31	2.7	6.5	59.8	33.9	32	1.9	6.8	59.3
9	D. melanogasti	26,395,792	SRRA6743342	62.7	57	5.7	5.9	31.4	62.3	57.9	4.4	6.4	31.3	62.3	57.2	5.1	6.2	31.5
				75bp (A) 25,29,33,41					75bp (B) 25,31,35,43					75bp (C) 25,33,37,45				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	33,700,156	SRRI0067458	96	84.5	11.5	1.9	2.1	95.7	83.2	12.5	2	2.3	96	84.1	11.9	2	2
2	M. musculus	41,236,457	SRRI0067459	96.6	83.2	13.4	1.2	2.2	96.9	83.5	13.4	0.8	2.3	97.3	83.8	13.5	0.8	1.9
3	M. musculus	35,598,598	SRRI0067460	96.2	82.8	13.4	0.8	3	96.4	83.8	12.6	0.9	2.7	96.1	83.3	12.8	0.9	3
4	M. musculus	41,745,958	SRRI0067461	94.4	84.4	10	1.9	3.7	93.9	83.9	10	2.1	4	94.4	84.2	10.2	1.9	3.7
5	M. musculus	45,329,544	SRRI0067462	95.8	85.1	10.7	1.2	3	96	86	10	1.2	2.8	95.8	85.2	10.6	0.9	3.3
6	M. musculus	44,469,310	SRRI0067463	94.5	84.6	9.9	2.2	3.3	94.6	84.4	10.2	2	3.4	94.5	84.5	10	2.1	3.4
1	C. elegans	40,302,838	SRR1585277	75.3	65.6	9.7	2.4	22.3	75.6	66.7	8.9	2.5	21.9	75.4	66.1	9.3	2.4	22.2
2	C. elegans	50,516,835	SRR1585278	75.5	63.9	11.6	2.5	22	75.4	63.9	11.5	2.2	22.4	75.2	64.4	10.8	2.2	22.6
3	C. elegans	41,947,175	SRR8257107	73.9	69.9	4	2.7	23.4	74.2	69.7	4.5	2.6	23.2	74.7	70.4	4.3	2.5	22.8
4	C. elegans	44,969,393	SRR8257108	74.7	71.6	3.1	2.5	22.8	74.9	71.4	3.5	2.3	22.8	75	71.5	3.5	2.2	22.8
5	C. elegans	45,605,396	SRR8257109	74.6	70.2	4.4	2.2	23.2	75.1	71.1	4	2.3	22.6	74.7	70.8	3.9	2.3	23
1	D. melanogasti	87,423,452	SRR8559044	94.7	76.1	18.6	1	4.3	94.5	75.9	18.6	0.9	4.6	95.3	77.5	17.8	0.7	4
2	D. melanogasti	85,714,154	SRR8559045	94.6	75.7	18.9	0.8	4.6	95.2	78.5	16.7	0.6	4.2	94.8	76.7	18.1	0.6	4.6
3	D. melanogasti	88,252,694	SRR8559046	95.2	75.6	19.6	0.8	4	95.2	77.3	17.9	0.6	4.2	95.5	78.1	17.4	0.5	4
4	D. melanogasti	82,110,608	SRR8559047	95.5	77.6	17.9	0.4	4.1	95.5	77.3	18.2	0.6	3.9	95.7	78.6	17.1	0.7	3.6
5	D. melanogasti	102,413,880	SRR8559048	94.7	72.1	22.6	0.9	4.4	94.9	72.3	22.6	0.9	4.2	94.8	73.5	21.3	1.2	4
6	D. melanogasti	98,529,578	SRR8559049	95	75.3	19.7	0.6	4.4	95.2	76.4	18.8	0.6	4.2	94.4	77.4	17	0.8	4.8
				100bp (A) 25,35,47,61					100bp (B) 25,37,55,63					100bp (C) 25,41,57,67				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	182,180,123	SRRI017092	95.3	79.6	15.7	1.8	2.9	95.7	78.6	17.1	1.5	2.8	95.3	77.9	17.4	1.5	3.2
2	M. musculus	187,280,600	SRRI017093	96	76.5	19.5	1.8	2.2	96	80.7	15.3	1.4	2.6	96.9	78.8	18.1	1.2	1.9
3	M. musculus	127,017,374	SRRI017094	96.2	80.9	15.3	0.7	3.1	96	79.4	16.6	1.3	2.7	96.8	80.8	16	0.9	2.3
5	M. musculus	102,909,165	SRR5171077	96.2	81	15.2	2	1.8	96.1	82.7	13.4	2.1	1.8	33.9	33.3	0.6	23.1	43
6	M. musculus	65,372,078	SRR5171085	96.4	81.4	15	1.5	2.1	96.7	82.5	14.2	1.3	2	96.1	80.2	15.9	1.7	2.2
7	M. musculus	27,016,597	SRR5171095	45.3	43.1	2.2	21.4	33.3	44.9	42.7	2.2	21.3	33.8	45	43	2	21.4	33.6
1	C. elegans	49,743,412	SRR2142254	73.1	70.1	3	3.1	23.8	73.3	70.9	2.4	3.1	23.6	73.3	70.6	2.7	2.9	23.8
2	C. elegans	38,836,876	SRR2142255	73.5	72.1	1.4	2.8	23.7	73.4	71.4	2	3	23.6	73.2	70.9	2.3	3.2	23.6
3	C. elegans	11,166,310	SRR2015313	56.6	55.1	1.5	11.6	31.8	56.4	55.6	0.8	12.1	31.5	56.4	55.5	0.9	12.1	31.5
4	C. elegans	11,626,153	SRR2015311	69.5	67.6	1.9	5.6	24.9	69.7	67.9	1.8	5.7	24.6	69.7	68.1	1.6	5.7	24.6
5	C. elegans	12,567,755	SRR2012785	74.8	64.7	10.1	2.6	22.6	75.1	65.1	10	2.5	22.4	75.1	64.2	10.9	2.4	22.5
6	C. elegans	14,372,593	SRR2012781	53.9	48.7	5.2	13.1	33	53.5	48.7	4.8	13.3	33.2	53.7	48.6	5.1	13.2	33.1
1	D. melanogasti	30,515,068	SRR3018852	94.1	81.1	13	0.5	5.4	94.1	78.4	15.7	0.5	5.4	94.7	80.3	14.4	0.4	4.9
2	D. melanogasti	24,284,630	SRR3018855	93.5	77.3	16.2	0.9	5.6	93.5	78.2	15.3	0.8	5.7	93.6	76.9	16.7	1.3	5.1
3	D. melanogasti	24,773,404	SRR3018862	94.2	82.3	11.9	0.8	5	94.7	82	12.7	0.9	4.4	94.9	83.9	11	0.6	4.5
4	D. melanogasti	30,140,704	SRR3019045	94.4	80.6	13.8	0.4	5.2	94.2	80	14.2	0.6	5.2	93.7	80.5	13.2	0.5	5.8
5	D. melanogasti	25,828,680	SRR3019179	94	80.8	13.2	0.5	5.5	93.9	80.8	13.1	0.6	5.5	94.1	81.4	12.7	0.4	5.5
6	D. melanogasti	19,049,236	SRR3019184	93.6	80.9	12.7	0.9	5.5	93.6	82.5	11.1	1.2	5.2	93.7	82.5	11.2	1.2	5.1
				150bp (A) 25,31,41,51,65					150bp (B) 25,33,43,53,71					150bp (C) 25,35,55,75,85				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	21,173,335	SRRI0560364	96.9	82.2	14.7	1.6	1.5	96.8	83.3	13.5	1.5	1.7	96.7	83.4	13.3	1.6	1.7
2	M. musculus	22,731,971</																

Trinity - BUSCO4				50bp (A) 25,29,33					50bp (B) 25,31,35					50bp (C) 25,33,37				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	33,540,466	SRRI0342165	96.7	69.7	27	1.8	1.5	96.9	69.1	27.8	1.7	1.4	96.6	69.5	27.1	1.7	1.7
2	M. musculus	43,541,512	SRRI0342166	97.7	63.2	34.5	0.9	1.4	97.8	63.6	34.2	0.8	1.4	97.8	63.6	34.2	0.8	1.4
3	M. musculus	43,440,008	SRRI0342167	97.6	62.9	34.7	1.2	1.2	97.8	63.5	34.3	1.2	1	97.5	63.1	34.4	1.3	1.2
4	M. musculus	33,595,655	SRR9211836	92.3	79	13.3	3.8	3.9	92.4	78.5	13.9	3.8	3.8	92.4	79.1	13.3	3.9	3.7
5	M. musculus	33,174,108	SRR9211837	91.4	79.8	11.6	4.2	4.4	91.5	79.7	11.8	4.2	4.3	91.5	80	11.5	4.2	4.3
6	M. musculus	35,030,665	SRR9211838	92	78.9	13.1	4.3	3.7	91.8	78	13.8	4.4	3.8	91.8	78.4	13.4	4.4	3.8
7	M. musculus	34,877,241	SRR9211839	91.4	79.8	11.6	4.9	3.7	91.2	79.7	11.5	5.1	3.7	91.3	80.3	11	4.9	3.8
1	C. elegans	24,017,399	SRR4181026	74.8	69.7	5.1	3.1	22.1	74.7	69.5	5.2	3.2	22.1	74.8	70.0	4.8	3.1	22.1
2	C. elegans	24,409,279	SRR4181032	75.1	69.8	5.3	2.4	22.5	75.2	69.3	5.9	2.4	22.4	75.2	69.6	5.6	2.4	22.4
3	C. elegans	24,694,386	SRR4181033	75.4	69.4	6.0	2.7	21.9	75.3	69.5	5.8	2.7	22.0	75.4	69.7	5.7	2.7	21.9
4	C. elegans	26,159,433	SRR4181034	74.9	68.2	6.7	3.0	22.1	74.7	68.3	6.4	3.2	22.1	74.9	68.0	6.9	3.0	22.1
5	C. elegans	26,417,070	SRR4181036	75.0	69.4	5.6	3.2	21.8	75.2	69.3	5.9	3.0	21.8	75.1	69.0	6.1	3.1	21.8
6	C. elegans	24,711,402	SRR4181037	75.4	69.9	5.5	2.5	22.1	75.2	69.7	5.5	2.5	22.3	75.2	69.9	5.3	2.5	22.3
1	D. melanogasti	15,648,174	SRR6743334	34.6	28.6	6	13.1	52.3	34.4	28	6.4	13.4	52.2	34.2	28.1	6.1	13.5	52.3
2	D. melanogasti	15,181,806	SRR6743335	32.6	27	5.6	12.8	54.6	32.6	27.1	5.5	12.5	54.9	32.8	27.5	5.3	12.3	54.9
3	D. melanogasti	9,857,308	SRR6743336	26	22.1	3.9	13.1	60.9	25.9	22.1	3.8	13.4	60.7	26	21.8	4.2	13.2	60.8
4	D. melanogasti	15,940,368	SRR6743337	29.8	24.6	5.2	9.6	60.6	29.9	24.2	5.7	9.5	60.6	29.7	24.5	5.2	9.7	60.6
5	D. melanogasti	18,874,930	SRR6743338	36.7	31.8	4.9	13.1	50.2	36.7	31.6	5.1	12.8	50.5	36.8	31.3	5.5	12.7	50.5
6	D. melanogasti	21,169,448	SRR6743339	26.3	20.5	5.8	10	63.7	26.8	20.3	6.5	9.1	64.1	26.8	21.5	5.3	9	64.2
7	D. melanogasti	16,177,860	SRR6743340	33.2	27.5	5.7	10.9	55.9	33.4	27.7	5.7	10.5	56.1	33.7	27.6	6.1	10.1	56.2
8	D. melanogasti	12,436,324	SRR6743341	28.9	24	4.9	11.2	59.9	29.9	25.7	4.2	10.7	59.4	29.5	24.7	4.8	10.9	59.6
9	D. melanogasti	26,395,792	SRR6743342	55.7	47.6	8.1	11	33.3	55.5	46.3	9.2	11.1	33.4	55.5	46.3	9.2	11	33.5
				75bp (A) 25,29,33,41					75bp (B) 25,31,35,43					75bp (C) 25,33,37,45				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	33,700,156	SRRI0067458	96.7	66.8	29.9	1.8	1.5	96.6	67.5	29.1	1.8	1.6	96.9	66.7	30.2	1.6	1.5
2	M. musculus	41,236,457	SRRI0067459	97.2	59.9	37.3	1.5	1.3	97.3	59.9	37.4	1.4	1.3	97.1	58.7	38.4	1.4	1.5
3	M. musculus	35,598,598	SRRI0067460	98	62.7	35.3	0.9	1.1	97.6	64	33.6	1.2	1.2	97.8	61.7	36.1	0.9	1.3
4	M. musculus	41,745,958	SRRI0067461	94.1	52.9	41.2	3.4	2.5	94.4	53.4	41	3.4	2.2	94.1	52.9	41.2	3.4	2.5
5	M. musculus	45,329,544	SRRI0067462	95.5	54.3	41.2	2.3	2.2	95.7	54.5	41.2	2.1	2.2	95.4	54.8	40.6	2.3	2.3
6	M. musculus	44,469,310	SRRI0067463	94.1	54.3	39.8	3.8	2.1	94	54.1	39.9	4	2	94	55.6	38.4	3.9	2.1
1	C. elegans	40,302,838	SRRI585277	76.3	64.5	11.8	2.6	21.1	76.3	64.8	11.5	2.6	21.1	76.2	63.6	12.6	2.6	21.2
2	C. elegans	50,516,835	SRRI585278	76.5	64.2	12.3	2.6	20.9	76.4	63.6	12.8	2.6	21	76.3	63.2	13.1	2.6	21.1
3	C. elegans	41,947,175	SRR8257107	75.3	69.4	5.9	2.8	21.9	75.2	69	6.2	2.7	22.1	75.2	69.6	5.6	2.7	22.1
4	C. elegans	44,969,393	SRR8257108	75	68.9	6.1	2.8	22.2	75.1	69	6.1	2.7	22.2	74.9	68.4	6.5	2.8	22.3
5	C. elegans	45,605,396	SRR8257109	75.3	69.3	6	2.7	22	75	70.1	4.9	2.7	22.3	75.3	70.3	5	2.5	22.2
1	D. melanogasti	87,423,452	SRR8559044	94.7	57.8	36.9	0.9	4.4	94.5	56.3	38.2	1	4.5	94.8	57.9	36.9	0.9	4.3
2	D. melanogasti	85,714,154	SRR8559045	95.4	55.3	40.1	0.8	3.8	95.2	54	41.2	0.9	3.9	95.4	56.2	39.2	0.8	3.8
3	D. melanogasti	88,257,694	SRR8559046	95.5	54.4	41.1	0.8	3.7	95.4	54.4	41	0.8	3.8	95.2	54.2	41	0.9	3.9
4	D. melanogasti	82,110,608	SRR8559047	95.1	54.7	40.4	0.6	4.3	94.9	56.2	38.7	0.8	4.3	95.1	56.1	39	0.6	4.3
5	D. melanogasti	102,413,880	SRR8559048	95.1	49.3	45.8	0.8	4.1	95.5	49.8	45.7	0.9	3.6	95.4	49.4	46	0.8	3.8
6	D. melanogasti	98,529,578	SRR8559049	95.3	56.2	39.1	0.6	4.1	95.1	56.4	38.7	0.6	4.3	95.6	57.5	38.1	0.6	3.8
				100bp (A) 25,35,47,61					100bp (B) 25,37,55,63					100bp (C) 25,41,57,67				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	182180123	SRRI017092	97.6	39.1	58.5	1.2	1.2	97.9	37	60.9	1.4	0.7	98	35	63	1	1
2	M. musculus	107280600	SRRI017093	97.8	38.3	59.5	1.4	0.8	98.3	39.2	59.1	0.6	1.1	98.3	38.3	60	0.5	1.2
3	M. musculus	127017374	SRRI017094	98.3	36.9	61.4	0.6	1.1	98.4	36.8	61.6	0.6	1	98.4	36.5	61.9	0.8	0.8
4	M. musculus	102,909,165	SRR5171077	34.8	28.7	6.1	28.9	36.3	34.7	28.8	5.9	29.1	36.2	34.8	28.8	6	28.9	36.3
5	M. musculus	65,372,078	SRR5171085	97.8	41.7	56.1	1.5	0.7	97.9	41.6	56.3	1.5	0.6	97.6	42.1	55.5	1.5	0.9
6	M. musculus	27,016,597	SRR5171095	47.9	36.5	11.4	27.9	24.2	47.8	37	10.8	28	24.2	47.8	36.9	10.9	28	24.2
1	C. elegans	49,743,412	SRR2142254	72.8	63.6	9.2	3.5	23.7	72.9	63	9.9	3.5	23.6	72.7	63.8	8.9	3.5	23.8
2	C. elegans	38,836,876	SRR2142255	73	65.7	7.3	3.4	23.6	73.2	65.1	8.1	3.4	23.4	73	65.5	7.5	3.4	23.6
3	C. elegans	11,166,310	SRR2015313	53.6	42	11.6	14.5	31.9	53.8	42.6	11.2	14	32.2	53.7	41.6	12.1	14.2	32.1
4	C. elegans	11,626,153	SRR2015311	68.4	54.9	13.5	6.4	25.2	68.3	55.1	13.2	6.7	25	68.6	55.7	12.9	6.3	25.1
5	C. elegans	12,567,755	SRR2012785	75.9	62.5	13.4	2.5	21.6	75.8	62.6	13.2	2.5	21.7	75.8	63.1	12.7	2.6	21.6
6	C. elegans	14,372,593	SRR2012781															
1	D. melanogasti	30,515,068	SRR3018852	94.7	66.4	28.3	0.6	4.7	94.9	65.4	29.5	0.5	4.6	94.5	65.9	28.6	0.5	5
2	D. melanogasti	24,284,630	SRR3018855	93.4	64.2	29.2	1	5.6	93.8	65.5	28.3	0.9	5.3	93.8	64	29.8	0.9	5.3
3	D. melanogasti	24,773,404	SRR3018862	94.7	67.9	26.8	0.7	4.6	94.8	67.8	27	0.7	4.5	94.8	67.4	27.4	0.7	4.5
4	D. melanogasti	30,140,704	SRR3019045	94.2	65.5	28.7	1	4.8	94.4	65	29.4	0.9	4.7	94.2	64.7	29.5	0.9	4.9
5	D. melanogasti	25,828,680	SRR3019179	94.4	64.6	29.8	0.7	4.9	94.4	65.7	28.7	0.7	4.9	94.3	64.3	30	0.7	5
6	D. melanogasti	19,049,236	SRR3019184	94.3	70.3	24	0.9	4.8	94.3	70.5	23.8	0.9	4.8	94.1	69.9	24.2	0.9	5
				150bp (A) 25,31,41,51,65					150bp (B) 25,33,43,53,71					150bp (C) 25,35,55,75,85				
Nº	Taxa	Total pe-reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1	M. musculus	21,173,335	SRRI0560364	98.1	50.5	47.6	1.2	0.7	97.9	50.1	47.8	1	1.1	98	51.6	46.4	1	1
2	M. musculus	22,731,971	SRRI0560365	98.1	46.2	51.9	0.8	1.1										

50bp							
All data by busco							
Shapiro-Wilk normality test (p > 0.05)							
	TransPi	Trinity	Normally distributed	ANOVA	Kruskal-lis test (p < 0.05)	Significant	
Complete	2.75E-08	1.79E-08	no	-	0.08948458	no	
Single-copy	1.24E-08	1.84E-08	no	-	3.88E-05	yes	
Duplicated	9.00E-06	1.56E-10	no	-	7.94E-07	yes	
Fragmented	1.26E-09	1.50E-08	no	-	7.82E-06	yes	
Missing	4.45E-08	1.13E-07	no	-	0.270551	no	
All data by kmers							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	4.18E-04	3.97E-04	4.68E-04	no	-	0.9916716	no
Single-copy	0.0002572	2.43E-04	2.60E-04	no	-	9.97E-01	no
Duplicated	1.23E-02	1.10E-02	7.28E-03	no	-	9.61E-01	no
Fragmented	5.45E-05	3.48E-05	5.16E-05	no	-	0.7647052	no
Missing	5.31E-04	5.74E-04	6.30E-04	no	-	0.995189	no
C. elegans							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	9.39E-01	6.21E-01	9.15E-01	yes		-	no
Single-copy	0.348	3.26E-01	8.57E-01	yes		-	no
Duplicated	4.66E-01	6.86E-01	6.19E-01	yes		-	no
Fragmented	0.2584	1.06E-01	4.78E-02	no	-	0.9246305	no
Missing	9.40E-01	7.98E-01	9.26E-01	yes		-	no
D. melanogaster							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	4.53E-03	2.83E-03	3.58E-03	no	-	0.9992701	no
Single-copy	0.2013	1.23E-01	1.72E-01	yes		-	no
Duplicated	5.53E-02	4.67E-02	3.22E-02	no	-	8.62E-01	no
Fragmented	0.003331	1.31E-02	8.40E-03	no	-	0.8590528	no
Missing	4.31E-03	3.00E-03	4.47E-03	no	-	0.9945684	no
M. musculus							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	1.58E-01	1.43E-01	1.67E-01	yes		-	no
Single-copy	0.003992	5.32E-03	7.02E-03	no	-	9.49E-01	no
Duplicated	4.20E-04	5.65E-04	5.01E-04	no	-	9.16E-01	no
Fragmented	0.01943	2.37E-03	1.74E-02	no	-	0.9574024	no
Missing	1.94E-01	2.00E-01	2.85E-01	yes		-	no



75bp							
All data by busco							
Shapiro-Wilk normality test (p > 0.05)							
	TransPi	Trinity	Normally distributed	ANOVA	Kruskal-lis test (p < 0.05)	Significant	
Complete	3.17E-08	2.23E-08	no	-	0.0128621	yes	
Single-copy	8.48E-03	5.68E-05	no	-	3.10E-16	yes	
Duplicated	4.36E-03	3.36E-07	no	-	4.21E-08	yes	
Fragmented	1.70E-02	3.96E-06	no	-	0.6100149	no	
Missing	5.23E-09	1.69E-09	no	-	0.004015174	yes	
All data by kmers							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	3.13E-04	3.58E-04	3.95E-04	no	-	0.9472942	no
Single-copy	0.3689	2.08E-01	3.16E-01	yes		-	no
Duplicated	2.54E-01	2.91E-01	1.21E-01	yes		-	no
Fragmented	2.54E-01	5.70E-01	9.43E-02	yes		-	no
Missing	1.26E-04	1.18E-04	1.05E-04	no	-	0.9927532	no
C. elegans							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	1.53E-01	5.49E-02	3.38E-01	yes		-	no
Single-copy	0.3546	5.36E-01	3.85E-01	yes		-	no
Duplicated	3.66E-01	4.23E-01	4.02E-01	yes		-	no
Fragmented	0.0344	9.78E-01	8.22E-02	no	-	0.8758086	no
Missing	4.83E-01	4.60E-01	2.33E-01	yes		-	no
D. melanogaster							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	3.31E-01	1.66E-01	1.71E-01	yes		-	no
Single-copy	0.008752	1.15E-02	5.24E-03	no	-	9.06E-01	no
Duplicated	6.48E-03	9.53E-03	5.17E-03	no	-	8.19E-01	no
Fragmented	0.03849	6.10E-01	4.93E-02	no	-	0.5969728	no
Missing	1.71E-01	1.29E-01	7.37E-02	yes		-	no
M. musculus							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	2.64E-02	4.90E-02	4.46E-02	no	-	0.9843138	no
Single-copy	0.008143	8.00E-03	6.67E-03	no	-	9.64E-01	no
Duplicated	5.07E-03	5.69E-03	4.04E-03	no	-	9.84E-01	no
Fragmented	0.08928	1.48E-01	9.83E-02	yes		-	no
Missing	1.03E-01	1.51E-01	1.71E-01	yes		-	no

100bp							
All data by busco							
Shapiro-Wilk normality test (p > 0.05)							
	TransPi	Trinity	Normally distributed	ANOVA	Kruskal-lis test (p < 0.05)	Significant	
Complete	4.65E-08	1.48E-07	no	-	0.1989282	no	
Single-copy	9.73E-09	5.19E-06	no	-	5.97E-14	yes	
Duplicated	9.20E-05	2.08E-05	no	-	3.25E-08	yes	
Fragmented	2.09E-10	3.50E-10	no	-	0.1442448	no	
Missing	1.59E-06	1.33E-06	no	-	0.2283286	no	
All data by kmers							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	4.96E-04	4.43E-04	7.01E-04	no	-	0.9586657	no
Single-copy	0.000158	2.79E-04	2.43E-04	no	-	8.35E-01	no
Duplicated	3.11E-02	2.06E-02	4.29E-02	no	-	9.52E-01	no
Fragmented	1.29E-05	1.31E-05	2.98E-05	no	-	0.9505026	no
Missing	4.03E-03	4.10E-03	3.87E-03	no	-	0.8619683	no
C. elegans							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	2.73E-02	2.45E-02	2.69E-02	no	-	0.985216	no
Single-copy	0.4004	5.54E-01	3.71E-01	yes		-	no
Duplicated	4.20E-01	1.41E-01	2.85E-01	yes		-	no
Fragmented	0.01098	1.03E-02	9.51E-03	no	-	0.9975463	no
Missing	1.45E-01	1.29E-01	1.31E-01	yes		-	yes
D. melanogaster							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	6.43E-01	2.64E-01	6.03E-01	yes		-	no
Single-copy	0.00425	9.98E-03	9.18E-03	no	-	9.91E-01	no
Duplicated	6.16E-03	1.21E-02	9.19E-03	no	-	9.79E-01	no
Fragmented	0.9776	9.68E-01	8.77E-01	yes		-	no
Missing	2.00E-01	3.87E-01	1.46E-01	yes		-	no
M. musculus							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significant
Complete	1.62E-04	1.84E-04	4.94E-04	no	-	0.9391398	no
Single-copy	0.006094	8.98E-03	6.52E-03	no	-	8.80E-01	no
Duplicated	7.89E-03	7.46E-03	1.70E-02	no	-	9.99E-01	no
Fragmented	0.0002216	2.86E-04	1.03E-03	no	-	0.9874748	no
Missing	1.56E-04	1.52E-04	9.68E-04	bo	-	0.6108901	no

150bp							
All data by busco							
Shapiro-Wilk normality test (p > 0.05)							
	TransPi	Trinity	Normally distributed	ANOVA	Kruskal-lis test (p < 0.05)	Significant	
Complete	6.85E-06	3.70E-06	no	-	0.01975166	yes	
Single-copy	0.001852	2.35E-05	no	-	1.82E-16	yes	
Duplicated	2.39E-02	4.23E-05	no	-	8.22E-09	yes	
Fragmented	0.005526	8.59E-05	no	-	0.0309718	yes	
Missing	2.36E-07	9.30E-08	no	-	0.02033037	yes	
All data by kmers							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	skal-Wallis test (p < 0.05)	Significant
Complete	9.13E-03	6.26E-03	1.12E-02	no	-	0.8977174	no
Single-copy	0.1016	2.78E-02	2.24E-01	no	-	8.76E-01	no
Duplicated	6.19E-01	4.48E-01	3.14E-01	yes		-	no
Fragmented	0.2288	4.94E-01	1.79E-01	yes		-	no
Missing	1.14E-03	9.82E-04	1.41E-03	no	-	0.8893338	no
C. elegans							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	skal-Wallis test (p < 0.05)	Significant
Complete	8.33E-01	3.86E-01	4.14E-01	yes		-	no
Single-copy	0.1817	8.21E-02	1.84E-01	yes		-	no
Duplicated	2.45E-02	6.72E-02	1.04E-01	no	-	9.88E-01	no
Fragmented	0.3497	8.97E-01	7.18E-01	yes		-	no
Missing	2.21E-01	1.03E-01	2.07E-01	yes		-	no
D. melanogaster							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	skal-Wallis test (p < 0.05)	Significant
Complete	5.86E-02	6.16E-02	5.82E-02	yes		-	no
Single-copy	0.04833	4.84E-02	5.58E-02	no	-	9.29E-01	no
Duplicated	2.75E-01	2.53E-01	2.17E-01	yes		-	no
Fragmented	0.8729	8.30E-01	7.73E-01	yes		-	no
Missing	5.89E-04	6.52E-04	6.12E-04	no	-	0.9709572	no
M. musculus							
Shapiro-Wilk normality test (p > 0.05)							
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	skal-Wallis test (p < 0.05)	Significant
Complete	8.47E-01	2.69E-01	4.23E-01	yes		-	no
Single-copy	0.01682	1.24E-02	1.36E-02	no	-	9.80E-01	no
Duplicated	1.56E-02	1.21E-02	1.86E-02	no	-	9.99E-01	no
Fragmented	0.8411	2.41E-01	2.41E-01	yes		-	no
Missing	7.62E-06	4.41E-01	3.30E-01	no	-	0.7756218	no

Supplementary Table 3. Non-model organisms results.

Category	Sample	Program	Score	Reads	Length	ID
Complete	ERR3026433_Pinnigorgia_flava	Transpi	96.3	30,545,400	50	A
Complete	ERR3026434_Sinularia_cruciata	Transpi	91.6	22,160,908	50	A
Complete	ERR3026435_Tubipora_musica	Transpi	95.3	23,006,724	50	A
Complete	ERR3040053_Heliopora_coerulea	Transpi	94.6	29,000,821	50	A
Complete	SRR8280777_Godzillionomus_fronodosus	Transpi	87.5	14,086,834	75	B
Complete	SRR8745910_Galeodes_sp	Transpi	84.3	6,356,774	75	B
Complete	SRR8745911_Peripatoides_novaezealandiae_onyc	Transpi	84.9	5,768,550	75	B
Complete	ERR1000783_Paracentrotus_lividus	Transpi	81.7	6,803,316	75	B
Complete	SRR10744002_Paracentrotus_lividus	Transpi	94.3	13,583,857	75	B
Complete	SRR1232685_Nephtys_caeca	Transpi	29.6	1,576,665	75	B
Complete	SRR1271607_Gnathostomula_paradoxa	Transpi	56	5,954,962	75	B
Complete	SRR1271706_Macrodasys_sp	Transpi	74.7	3,204,609	75	B
Complete	SRR1273732_Lepidodermella_squamata	Transpi	54.4	4,370,938	75	B
Complete	SRR1273789_Cephalothrix_linearis	Transpi	82.6	4,869,244	75	B
Complete	SRR5569439_Acropora_palmata	Transpi	69.6	10,476,071	75	B
Complete	SRR8601367_Acropora_pulchra	Transpi	92.4	14,037,157	75	B
Complete	SRR1041944_Ephydatia_muelleri	Transpi	92	11,425,188	100	C
Complete	SRR1042012_Oscarella_pearsei	Transpi	92.6	11,306,242	100	C
Complete	SRR1168575_Spongilla_lacustris	Transpi	85	5,136,881	100	C
Complete	SRR1711043_Mycale_phylophylla_adult	Transpi	77.9	11,408,543	100	C
Complete	SRR1793376_Haliclona_tubifera	Transpi	93.5	16,356,602	100	C
Complete	SRR504690_Sycon_coactum	Transpi	83.8	9,098,097	100	C
Complete	SRR1145776_Peripatopsis_capensis	Transpi	62.4	11,638,180	100	C
Complete	SRR1505119_Monodonta_labio	Transpi	85.7	10,388,770	100	C
Complete	SRR1560310_Lyonsia_floridana	Transpi	79.6	9,919,645	100	C
Complete	SRR1560359_Mercenaria_campechiensis	Transpi	22.9	11,935,267	100	C
Complete	SRR1560432_Neotrigonia_margaritacea	Transpi	62.1	11,215,767	100	C
Complete	SRR1560458_Cardites_antiquatus	Transpi	49	11,916,756	100	C
Complete	SRR1561723_Sphaerium_nucleus	Transpi	36	18,539,173	100	C
Complete	SRR1611556_Hemithiris_psittacea	Transpi	92.8	9,221,875	100	C
Complete	SRR1611560_Malacobdella_grossa	Transpi	94	8,307,739	100	C
Complete	SRR1611565_Phoronis_psammophila	Transpi	94.1	12,949,999	100	C
Complete	SRR1796434_Catenula_lemnae	Transpi	53.5	3,028,636	100	C
Complete	SRR3097584_Florometra	Transpi	97.8	32,710,859	100	C
Complete	SRR3105702_Childia_submaculatum	Transpi	81.8	6,089,955	100	C
Complete	SRR331123_Ennucula_tenuis	Transpi	95.2	14,420,942	100	C
Complete	SRR7655554_Ircinia_fasciculata	Transpi	74.9	13,420,109	100	C
Complete	SRR7754744_Krohnitta_subtilis	Transpi	90	15,954,007	100	C
Complete	SRR10527303_Octolasmis_warwickii	Transpi	93.4	15,813,391	150	D
Complete	SRR3350463_Dimya_lima	Transpi	52.1	5,426,850	150	D
Complete	SRR3404576_Brachionus_plicatilis	Transpi	94.3	7,403,847	150	D
Complete	SRR4113507_Calanus_finmarchicus	Transpi	77.2	10,633,606	150	D
Complete	SRR4294206_Millepora_alcicornis	Transpi	96.9	24,645,545	150	D
Complete	SRR504694_Corticium_candelabrum	Transpi	91.5	18,897,095	150	D
Complete	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	83.1	5,471,351	150	D
Complete	SRR5626553_Nautilus_pompilius	Transpi	63.7	16,461,197	150	D
Complete	SRR5873556_Neocalanus_Flemingeri	Transpi	89.1	4,112,626	150	D
Complete	SRR8393254_Apostichopus_japonicus	Transpi	92	8,289,770	150	D
Complete	SRR8491966_Porites_pukoensis	Transpi	99.4	16,448,725	150	D
Single-Copy	ERR3026433_Pinnigorgia_flava	Transpi	84.7	30,545,400	50	A

Single-Copy	ERR3026434_Sinularia_cruciata	Transpi	81.9	22,160,908	50	A
Single-Copy	ERR3026435_Tubipora_musica	Transpi	85.6	23,006,724	50	A
Single-Copy	ERR3040053_Heliopora_coerulea	Transpi	86	29,000,821	50	A
Single-Copy	SRR8280777_Godzillioognomus_fronodosus	Transpi	77.7	14,086,834	75	B
Single-Copy	SRR8745910_Galeodes_sp	Transpi	76.9	6,356,774	75	B
Single-Copy	SRR8745911_Peripatoides_novaezealandiae_onyc	Transpi	80.3	5,768,550	75	B
Single-Copy	ERR1000783_Paracentrotus_lividus	Transpi	74.1	6,803,316	75	B
Single-Copy	SRR10744002_Paracentrotus_lividus	Transpi	81.6	13,583,857	75	B
Single-Copy	SRR1232685_Nephtys_caeca	Transpi	29	1,576,665	75	B
Single-Copy	SRR1271607_Gnathostomula_paradoxa	Transpi	35.8	5,954,962	75	B
Single-Copy	SRR1271706_Macrodasys_sp	Transpi	64.4	3,204,609	75	B
Single-Copy	SRR1273732_Lepidodermella_squamata	Transpi	47.4	4,370,938	75	B
Single-Copy	SRR1273789_Cephalothrix_linearis	Transpi	80.2	4,869,244	75	B
Single-Copy	SRR5569439_Acropora_palmata	Transpi	60.6	10,476,071	75	B
Single-Copy	SRR8601367_Acropora_pulchra	Transpi	80	14,037,157	75	B
Single-Copy	SRR1041944_Ephydatia_muelleri	Transpi	70.1	11,425,188	100	C
Single-Copy	SRR1042012_Oscarella_pearsei	Transpi	72.9	11,306,242	100	C
Single-Copy	SRR1168575_Spongilla_lacustris	Transpi	64.1	5,136,881	100	C
Single-Copy	SRR1711043_Mycale_phylophylla_adult	Transpi	72.9	11,408,543	100	C
Single-Copy	SRR1793376_Haliclona_tubifera	Transpi	69.8	16,356,602	100	C
Single-Copy	SRR504690_Sycon_coactum	Transpi	65.8	9,098,097	100	C
Single-Copy	SRR1145776_Peripatopsis_capensis	Transpi	59.6	11,638,180	100	C
Single-Copy	SRR1505119_Monodonta_labio	Transpi	80.2	10,388,770	100	C
Single-Copy	SRR1560310_Lyonsia_floridana	Transpi	73.1	9,919,645	100	C
Single-Copy	SRR1560359_Mercenaria_campechiensis	Transpi	19.3	11,935,267	100	C
Single-Copy	SRR1560432_Neotrigonia_margaritacea	Transpi	59.4	11,215,767	100	C
Single-Copy	SRR1560458_Cardites_antiquatus	Transpi	46.6	11,916,756	100	C
Single-Copy	SRR1561723_Sphaerium_nucleus	Transpi	27.1	18,539,173	100	C
Single-Copy	SRR1611556_Hemithiris_psittacea	Transpi	82.5	9,221,875	100	C
Single-Copy	SRR1611560_Malacobdella_grossa	Transpi	83	8,307,739	100	C
Single-Copy	SRR1611565_Phoronis_psammophila	Transpi	77.8	12,949,999	100	C
Single-Copy	SRR1796434_Catenula_lemnae	Transpi	48.9	3,028,636	100	C
Single-Copy	SRR3097584_Florometra	Transpi	87.3	32,710,859	100	C
Single-Copy	SRR3105702_Childia_submaculatum	Transpi	77.9	6,089,955	100	C
Single-Copy	SRR331123_Ennucula_tenuis	Transpi	85.3	14,420,942	100	C
Single-Copy	SRR7655554_Ircinia_fasciculata	Transpi	60.3	13,420,109	100	C
Single-Copy	SRR7754744_Krohnitta_subtilis	Transpi	60.7	15,954,007	100	C
Single-Copy	SRR10527303_Octolasmis_warwickii	Transpi	64.4	15,813,391	150	D
Single-Copy	SRR3350463_Dimya_lima	Transpi	50.4	5,426,850	150	D
Single-Copy	SRR3404576_Brachionus_plicatilis	Transpi	84.9	7,403,847	150	D
Single-Copy	SRR4113507_Calanus_finmarchicus	Transpi	62.1	10,633,606	150	D
Single-Copy	SRR4294206_Millepora_alcicornis	Transpi	83.6	24,645,545	150	D
Single-Copy	SRR504694_Corticium_candelabrum	Transpi	75.3	18,897,095	150	D
Single-Copy	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	74.2	5,471,351	150	D
Single-Copy	SRR5626553_Nautilus_pompilius	Transpi	59.5	16,461,197	150	D
Single-Copy	SRR5873556_Neocalanus_Flemingeri	Transpi	80.2	4,112,626	150	D
Single-Copy	SRR8393254_Apostichopus_japonicus	Transpi	67.4	8,289,770	150	D
Single-Copy	SRR8491966_Porites_pukoensis	Transpi	38.2	16,448,725	150	D
Duplicated	ERR3026433_Pinnigorgia_flava	Transpi	11.6	30,545,400	50	A
Duplicated	ERR3026434_Sinularia_cruciata	Transpi	9.7	22,160,908	50	A
Duplicated	ERR3026435_Tubipora_musica	Transpi	9.7	23,006,724	50	A

Duplicated	ERR3040053_Heliopora_coerulea	Transpi	8.6	29,000,821	50	A
Duplicated	SRR8280777_Godzillignomus_frondosus	Transpi	9.8	14,086,834	75	B
Duplicated	SRR8745910_Galeodes_sp	Transpi	7.4	6,356,774	75	B
Duplicated	SRR8745911_Peripatoides_novaezealandiae_onyc	Transpi	4.6	5,768,550	75	B
Duplicated	ERR1000783_Paracentrotus_lividus	Transpi	7.6	6,803,316	75	B
Duplicated	SRR10744002_Paracentrotus_lividus	Transpi	12.7	13,583,857	75	B
Duplicated	SRR1232685_Nephtys_caeca	Transpi	0.6	1,576,665	75	B
Duplicated	SRR1271607_Gnathostomula_paradoxa	Transpi	20.2	5,954,962	75	B
Duplicated	SRR1271706_Macrodasys_sp	Transpi	10.3	3,204,609	75	B
Duplicated	SRR1273732_Lepidodermella_squamata	Transpi	7	4,370,938	75	B
Duplicated	SRR1273789_Cephalothrix_linearis	Transpi	2.4	4,869,244	75	B
Duplicated	SRR5569439_Acropora_palmata	Transpi	9	10,476,071	75	B
Duplicated	SRR8601367_Acropora_pulchra	Transpi	12.4	14,037,157	75	B
Duplicated	SRR1041944_Ephydatia_muelleri	Transpi	21.9	11,425,188	100	C
Duplicated	SRR1042012_Oscarella_pearsei	Transpi	19.7	11,306,242	100	C
Duplicated	SRR1168575_Spongilla_lacustris	Transpi	20.9	5,136,881	100	C
Duplicated	SRR1711043_Mycale_phylophylla_adult	Transpi	5	11,408,543	100	C
Duplicated	SRR1793376_Haliclona_tubifera	Transpi	23.7	16,356,602	100	C
Duplicated	SRR504690_Sycon_coactum	Transpi	18	9,098,097	100	C
Duplicated	SRR1145776_Peripatopsis_capensis	Transpi	2.8	11,638,180	100	C
Duplicated	SRR1505119_Monodonta_labio	Transpi	5.5	10,388,770	100	C
Duplicated	SRR1560310_Lyonsia_floridana	Transpi	6.5	9,919,645	100	C
Duplicated	SRR1560359_Mercenaria_campechiensis	Transpi	3.6	11,935,267	100	C
Duplicated	SRR1560432_Neotrigonia_margaritacea	Transpi	2.7	11,215,767	100	C
Duplicated	SRR1560458_Cardites_antiquatus	Transpi	2.4	11,916,756	100	C
Duplicated	SRR1561723_Sphaerium_nucleus	Transpi	8.9	18,539,173	100	C
Duplicated	SRR1611556_Hemithiris_psittacea	Transpi	10.3	9,221,875	100	C
Duplicated	SRR1611560_Malacobdella_grossa	Transpi	11	8,307,739	100	C
Duplicated	SRR1611565_Phoronis_psammophila	Transpi	16.3	12,949,999	100	C
Duplicated	SRR1796434_Catenula_lemnae	Transpi	4.6	3,028,636	100	C
Duplicated	SRR3097584_Florometra	Transpi	10.5	32,710,859	100	C
Duplicated	SRR3105702_Childia_submaculatum	Transpi	3.9	6,089,955	100	C
Duplicated	SRR331123_Ennucula_tenuis	Transpi	9.9	14,420,942	100	C
Duplicated	SRR7655554_Ircinia_fasciculata	Transpi	14.6	13,420,109	100	C
Duplicated	SRR7754744_Krohnitta_subtilis	Transpi	29.3	15,954,007	100	C
Duplicated	SRR10527303_Octolasmis_warwickii	Transpi	29	15,813,391	150	D
Duplicated	SRR3350463_Dimya_lima	Transpi	1.7	5,426,850	150	D
Duplicated	SRR3404576_Brachionus_plicatilis	Transpi	9.4	7,403,847	150	D
Duplicated	SRR4113507_Calanus_finmarchicus	Transpi	15.1	10,633,606	150	D
Duplicated	SRR4294206_Millepora_alcicornis	Transpi	13.3	24,645,545	150	D
Duplicated	SRR504694_Corticium_candelabrum	Transpi	16.2	18,897,095	150	D
Duplicated	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	8.9	5,471,351	150	D
Duplicated	SRR5626553_Nautilus_pompilius	Transpi	4.2	16,461,197	150	D
Duplicated	SRR5873556_Neocalanus_Flemingeri	Transpi	8.9	4,112,626	150	D
Duplicated	SRR8393254_Apostichopus_japonicus	Transpi	24.6	8,289,770	150	D
Duplicated	SRR8491966_Porites_pukoensis	Transpi	61.2	16,448,725	150	D
Fragmented	ERR3026433_Pinnigorgia_flava	Transpi	1.7	30,545,400	50	A
Fragmented	ERR3026434_Sinularia_cruciata	Transpi	5.3	22,160,908	50	A
Fragmented	ERR3026435_Tubipora_musica	Transpi	2.2	23,006,724	50	A
Fragmented	ERR3040053_Heliopora_coerulea	Transpi	3.8	29,000,821	50	A
Fragmented	SRR8280777_Godzillignomus_frondosus	Transpi	5.4	14,086,834	75	B

Fragmented	SRR8745910_Galeodes_sp	Transpi	11.3	6,356,774	75	B
Fragmented	SRR8745911_Peripatoides_novaezealandiae_onyc	Transpi	6.4	5,768,550	75	B
Fragmented	ERR1000783_Paracentrotus_lividus	Transpi	9.8	6,803,316	75	B
Fragmented	SRR10744002_Paracentrotus_lividus	Transpi	3.2	13,583,857	75	B
Fragmented	SRR1232685_Nephtys_caeca	Transpi	17.3	1,576,665	75	B
Fragmented	SRR1271607_Gnathostomula_paradoxa	Transpi	22	5,954,962	75	B
Fragmented	SRR1271706_Macrodasys_sp	Transpi	12.2	3,204,609	75	B
Fragmented	SRR1273732_Lepidodermella_squamata	Transpi	20.7	4,370,938	75	B
Fragmented	SRR1273789_Cephalothrix_linearis	Transpi	10.8	4,869,244	75	B
Fragmented	SRR5569439_Acropora_palmata	Transpi	17.9	10,476,071	75	B
Fragmented	SRR8601367_Acropora_pulchra	Transpi	5.5	14,037,157	75	B
Fragmented	SRR1041944_Ephydatia_muelleri	Transpi	2.7	11,425,188	100	C
Fragmented	SRR1042012_Oscarella_pearsei	Transpi	2.1	11,306,242	100	C
Fragmented	SRR1168575_Spongilla_lacustris	Transpi	9	5,136,881	100	C
Fragmented	SRR1711043_Mycale_phylophylla_adult	Transpi	11	11,408,543	100	C
Fragmented	SRR1793376_Haliclona_tubifera	Transpi	1.4	16,356,602	100	C
Fragmented	SRR504690_Sycon_coactum	Transpi	7	9,098,097	100	C
Fragmented	SRR1145776_Peripatopsis_capensis	Transpi	22.2	11,638,180	100	C
Fragmented	SRR1505119_Monodonta_labio	Transpi	8.9	10,388,770	100	C
Fragmented	SRR1560310_Lyonsia_floridana	Transpi	14.5	9,919,645	100	C
Fragmented	SRR1560359_Mercenaria_campechiensis	Transpi	18	11,935,267	100	C
Fragmented	SRR1560432_Neotrigonia_margaritacea	Transpi	19.8	11,215,767	100	C
Fragmented	SRR1560458_Cardites_antiquatus	Transpi	23.1	11,916,756	100	C
Fragmented	SRR1561723_Sphaerium_nucleus	Transpi	32.1	18,539,173	100	C
Fragmented	SRR1611556_Hemithiris_psittacea	Transpi	3.1	9,221,875	100	C
Fragmented	SRR1611560_Malacobdella_grossa	Transpi	2.4	8,307,739	100	C
Fragmented	SRR1611565_Phoronis_psammophila	Transpi	4.5	12,949,999	100	C
Fragmented	SRR1796434_Catenula_lemnae	Transpi	16.3	3,028,636	100	C
Fragmented	SRR3097584_Florometra	Transpi	0.6	32,710,859	100	C
Fragmented	SRR3105702_Childia_submaculatum	Transpi	3.4	6,089,955	100	C
Fragmented	SRR331123_Ennucula_tenuis	Transpi	3.2	14,420,942	100	C
Fragmented	SRR7655554_Ircinia_fasciculata	Transpi	15	13,420,109	100	C
Fragmented	SRR7754744_Krohnitta_subtilis	Transpi	6.2	15,954,007	100	C
Fragmented	SRR10527303_Octolasmis_warwickii	Transpi	2.7	15,813,391	150	D
Fragmented	SRR3350463_Dimya_lima	Transpi	22.5	5,426,850	150	D
Fragmented	SRR3404576_Brachionus_plicatilis	Transpi	0.8	7,403,847	150	D
Fragmented	SRR4113507_Calanus_finmarchicus	Transpi	13.3	10,633,606	150	D
Fragmented	SRR4294206_Millepora_alcicornis	Transpi	1	24,645,545	150	D
Fragmented	SRR504694_Corticium_candelabrum	Transpi	4.6	18,897,095	150	D
Fragmented	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	11.1	5,471,351	150	D
Fragmented	SRR5626553_Nautilus_pompilius	Transpi	25.3	16,461,197	150	D
Fragmented	SRR5873556_Neocalanus_Flemingeri	Transpi	6	4,112,626	150	D
Fragmented	SRR8393254_Apostichopus_japonicus	Transpi	6	8,289,770	150	D
Fragmented	SRR8491966_Porites_pukoensis	Transpi	0.5	16,448,725	150	D
Missing	ERR3026433_Pinnigorgia_flava	Transpi	2	30,545,400	50	A
Missing	ERR3026434_Sinularia_cruciata	Transpi	3.1	22,160,908	50	A
Missing	ERR3026435_Tubipora_musica	Transpi	2.5	23,006,724	50	A
Missing	ERR3040053_Heliopora_coerulea	Transpi	1.6	29,000,821	50	A
Missing	SRR8280777_Godzillioognomus_frondosus	Transpi	7.1	14,086,834	75	B
Missing	SRR8745910_Galeodes_sp	Transpi	4.4	6,356,774	75	B
Missing	SRR8745911_Peripatoides_novaezealandiae_onyc	Transpi	8.7	5,768,550	75	B



Missing	ERR1000783_Paracentrotus_lividus	Transpi	8.5	6,803,316	75	B
Missing	SRR10744002_Paracentrotus_lividus	Transpi	2.5	13,583,857	75	B
Missing	SRR1232685_Nephtys_caeca	Transpi	53.1	1,576,665	75	B
Missing	SRR1271607_Gnathostomula_paradoxa	Transpi	22	5,954,962	75	B
Missing	SRR1271706_Macrodasys_sp	Transpi	13.1	3,204,609	75	B
Missing	SRR1273732_Lepidodermella_squamata	Transpi	24.9	4,370,938	75	B
Missing	SRR1273789_Cephalothrix_linearis	Transpi	6.6	4,869,244	75	B
Missing	SRR5569439_Acropora_palmata	Transpi	12.5	10,476,071	75	B
Missing	SRR8601367_Acropora_pulchra	Transpi	2.1	14,037,157	75	B
Missing	SRR1041944_Ephydatia_muelleri	Transpi	5.3	11,425,188	100	C
Missing	SRR1042012_Oscarella_pearsei	Transpi	5.3	11,306,242	100	C
Missing	SRR1168575_Spongilla_lacustris	Transpi	6	5,136,881	100	C
Missing	SRR1711043_Mycale_phylophylla_adult	Transpi	11.1	11,408,543	100	C
Missing	SRR1793376_Haliclona_tubifera	Transpi	5.1	16,356,602	100	C
Missing	SRR504690_Sycon_coactum	Transpi	9.2	9,098,097	100	C
Missing	SRR1145776_Peripatopsis_capensis	Transpi	15.4	11,638,180	100	C
Missing	SRR1505119_Monodonta_labio	Transpi	5.4	10,388,770	100	C
Missing	SRR1560310_Lyonsia_floridana	Transpi	5.9	9,919,645	100	C
Missing	SRR1560359_Mercenaria_campechiensis	Transpi	59.1	11,935,267	100	C
Missing	SRR1560432_Neotrigonia_margaritacea	Transpi	18.1	11,215,767	100	C
Missing	SRR1560458_Cardites_antiquatus	Transpi	27.9	11,916,756	100	C
Missing	SRR1561723_Sphaerium_nucleus	Transpi	31.9	18,539,173	100	C
Missing	SRR1611556_Hemithiris_psittacea	Transpi	4.1	9,221,875	100	C
Missing	SRR1611560_Malacobdella_grossa	Transpi	3.6	8,307,739	100	C
Missing	SRR1611565_Phoronis_psammophila	Transpi	1.4	12,949,999	100	C
Missing	SRR1796434_Catenula_lemnae	Transpi	30.2	3,028,636	100	C
Missing	SRR3097584_Florometra	Transpi	1.6	32,710,859	100	C
Missing	SRR3105702_Childia_submaculatum	Transpi	14.8	6,089,955	100	C
Missing	SRR331123_Ennucula_tenuis	Transpi	1.6	14,420,942	100	C
Missing	SRR7655554_Ircinia_fasciculata	Transpi	10.1	13,420,109	100	C
Missing	SRR7754744_Krohnitta_subtilis	Transpi	3.8	15,954,007	100	C
Missing	SRR10527303_Octolasmis_warwickii	Transpi	3.9	15,813,391	150	D
Missing	SRR3350463_Dimya_lima	Transpi	25.4	5,426,850	150	D
Missing	SRR3404576_Brachionus_plicatilis	Transpi	4.9	7,403,847	150	D
Missing	SRR4113507_Calanus_finmarchicus	Transpi	9.5	10,633,606	150	D
Missing	SRR4294206_Millepora_alcicornis	Transpi	2.1	24,645,545	150	D
Missing	SRR504694_Corticium_candelabrum	Transpi	3.9	18,897,095	150	D
Missing	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	5.8	5,471,351	150	D
Missing	SRR5626553_Nautilus_pompilius	Transpi	11	16,461,197	150	D
Missing	SRR5873556_Neocalanus_Flemingeri	Transpi	4.9	4,112,626	150	D
Missing	SRR8393254_Apostichopus_japonicus	Transpi	2	8,289,770	150	D
Missing	SRR8491966_Porites_pukoensis	Transpi	0.1	16,448,725	150	D
Complete	ERR3026433_Pinnigorgia_flava	Trinity	93.6	30,545,400	50	A
Complete	ERR3026434_Sinularia_cruciata	Trinity	84.9	22,160,908	50	A
Complete	ERR3026435_Tubipora_musica	Trinity	91.6	23,006,724	50	A
Complete	ERR3040053_Heliopora_coerulea	Trinity	89.5	29,000,821	50	A
Complete	SRR8280777_Godzillignomus_frondosus	Trinity	82.2	14,086,834	75	B
Complete	SRR8745910_Galeodes_sp	Trinity	82.8	6,356,774	75	B
Complete	SRR8745911_Peripatoides_novaezealandiae_onych	Trinity	83.3	5,768,550	75	B
Complete	ERR1000783_Paracentrotus_lividus	Trinity	73.9	6,803,316	75	B
Complete	SRR10744002_Paracentrotus_lividus	Trinity	93.4	13,583,857	75	B

Complete	SRR1232685_Nephtys_caeca	Trinity	26.6	1,576,665	75	B
Complete	SRR1271607_Gnathostomula_paradoxa	Trinity	54.1	5,954,962	75	B
Complete	SRR1271706_Macrodasys_sp	Trinity	72.6	3,204,609	75	B
Complete	SRR1273732_Lepidodermella_squamata	Trinity	52.1	4,370,938	75	B
Complete	SRR1273789_Cephalothrix_linearis	Trinity	79.7	4,869,244	75	B
Complete	SRR5569439_Acropora_palmata	Trinity	66.1	10,476,071	75	B
Complete	SRR8601367_Acropora_pulchra	Trinity	89.8	14,037,157	75	B
Complete	SRR1041944_Ephydatia_muelleri	Trinity	94.4	11,425,188	100	C
Complete	SRR1042012_Oscarella_pearsei	Trinity	92.6	11,306,242	100	C
Complete	SRR1168575_Spongilla_lacustris	Trinity	85	5,136,881	100	C
Complete	SRR1711043_Mycale_phylophylla_adult	Trinity	77.4	11,408,543	100	C
Complete	SRR1793376_Haliclona_tubifera	Trinity	94.2	16,356,602	100	C
Complete	SRR504690_Sycon_coactum	Trinity	82.6	9,098,097	100	C
Complete	SRR1145776_Peripatopsis_capensis	Trinity	61.6	11,638,180	100	C
Complete	SRR1505119_Monodonta_labio	Trinity	84.2	10,388,770	100	C
Complete	SRR1560310_Lyonsia_floridana	Trinity	76.7	9,919,645	100	C
Complete	SRR1560359_Mercenaria_campechiensis	Trinity	20.3	11,935,267	100	C
Complete	SRR1560432_Neotrigonia_margaritacea	Trinity	57.7	11,215,767	100	C
Complete	SRR1560458_Cardites_antiquatus	Trinity	42.7	11,916,756	100	C
Complete	SRR1561723_Sphaerium_nucleus	Trinity	34.6	18,539,173	100	C
Complete	SRR1611556_Hemithiris_psittacea	Trinity	94.5	9,221,875	100	C
Complete	SRR1611560_Malacobdella_grossa	Trinity	94.3	8,307,739	100	C
Complete	SRR1611565_Phoronis_psammophila	Trinity	92.6	12,949,999	100	C
Complete	SRR1796434_Catenula_lemnae	Trinity	52.5	3,028,636	100	C
Complete	SRR3097584_Florometra	Trinity	98	32,710,859	100	C
Complete	SRR3105702_Childia_submaculatum	Trinity	81.8	6,089,955	100	C
Complete	SRR331123_Ennucula_tenuis	Trinity	94.2	14,420,942	100	C
Complete	SRR7655554_Ircinia_fasciculata	Trinity	71.4	13,420,109	100	C
Complete	SRR7754744_Krohnitta_subtilis	Trinity	88.2	15,954,007	100	C
Complete	SRR10527303_Octolasmis_warwickii	Trinity	97.5	15,813,391	150	D
Complete	SRR3350463_Dimya_lima	Trinity	53.1	5,426,850	150	D
Complete	SRR3404576_Brachionus_plicatilis	Trinity	95.5	7,403,847	150	D
Complete	SRR4113507_Calanus_finmarchicus	Trinity	79.8	10,633,606	150	D
Complete	SRR4294206_Millepora_alcicornis	Trinity	97.3	24,645,545	150	D
Complete	SRR504694_Corticium_candelabrum	Trinity	91.2	18,897,095	150	D
Complete	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	84.8	5,471,351	150	D
Complete	SRR5626553_Nautilus_pompilius	Trinity	62.2	16,461,197	150	D
Complete	SRR5873556_Neocalanus_Flemingeri	Trinity	88.8	4,112,626	150	D
Complete	SRR8393254_Apostichopus_japonicus	Trinity	91.6	8,289,770	150	D
Complete	SRR8491966_Porites_pukoensis	Trinity	99.4	16,448,725	150	D
Single-Copy	ERR3026433_Pinnigorgia_flava	Trinity	66.6	30,545,400	50	A
Single-Copy	ERR3026434_Sinularia_cruciata	Trinity	68	22,160,908	50	A
Single-Copy	ERR3026435_Tubipora_musica	Trinity	73.5	23,006,724	50	A
Single-Copy	ERR3040053_Heliopora_coerulea	Trinity	65.7	29,000,821	50	A
Single-Copy	SRR8280777_Godzillignomus_fronodosus	Trinity	63.6	14,086,834	75	B
Single-Copy	SRR8745910_Galeodes_sp	Trinity	51	6,356,774	75	B
Single-Copy	SRR8745911_Peripatoides_novaezealandiae_onyc	Trinity	66.7	5,768,550	75	B
Single-Copy	ERR1000783_Paracentrotus_lividus	Trinity	40.8	6,803,316	75	B
Single-Copy	SRR10744002_Paracentrotus_lividus	Trinity	30	13,583,857	75	B
Single-Copy	SRR1232685_Nephtys_caeca	Trinity	23.9	1,576,665	75	B
Single-Copy	SRR1271607_Gnathostomula_paradoxa	Trinity	28.1	5,954,962	75	B

Single-Copy	SRR1271706_Macrodasys_sp	Trinity	56.5	3,204,609	75	B
Single-Copy	SRR1273732_Lepidodermella_squamata	Trinity	40.4	4,370,938	75	B
Single-Copy	SRR1273789_Cephalothrix_linearis	Trinity	65.7	4,869,244	75	B
Single-Copy	SRR5569439_Acropora_palmata	Trinity	46.2	10,476,071	75	B
Single-Copy	SRR8601367_Acropora_pulchra	Trinity	58.7	14,037,157	75	B
Single-Copy	SRR1041944_Ephydatia_muelleri	Trinity	33.3	11,425,188	100	C
Single-Copy	SRR1042012_Oscarella_pearsei	Trinity	32.7	11,306,242	100	C
Single-Copy	SRR1168575_Spongilla_lacustris	Trinity	41.7	5,136,881	100	C
Single-Copy	SRR1711043_Mycale_phylophyllo_adult	Trinity	47.8	11,408,543	100	C
Single-Copy	SRR1793376_Haliclona_tubifera	Trinity	27.8	16,356,602	100	C
Single-Copy	SRR504690_Sycon_coactum	Trinity	47	9,098,097	100	C
Single-Copy	SRR1145776_Peripatopsis_capensis	Trinity	48.7	11,638,180	100	C
Single-Copy	SRR1505119_Monodonta_labio	Trinity	58.9	10,388,770	100	C
Single-Copy	SRR1560310_Lyonsia_floridana	Trinity	52.4	9,919,645	100	C
Single-Copy	SRR1560359_Mercenaria_campechiensis	Trinity	13.7	11,935,267	100	C
Single-Copy	SRR1560432_Neotrigonia_margaritacea	Trinity	47.3	11,215,767	100	C
Single-Copy	SRR1560458_Cardites_antiquatus	Trinity	32.3	11,916,756	100	C
Single-Copy	SRR1561723_Sphaerium_nucleus	Trinity	16.4	18,539,173	100	C
Single-Copy	SRR1611556_Hemithiris_psittacea	Trinity	29.1	9,221,875	100	C
Single-Copy	SRR1611560_Malacobdella_grossa	Trinity	20.4	8,307,739	100	C
Single-Copy	SRR1611565_Phoronis_psammophila	Trinity	21.6	12,949,999	100	C
Single-Copy	SRR1796434_Catenula_lemnae	Trinity	31.7	3,028,636	100	C
Single-Copy	SRR3097584_Florometra	Trinity	41.3	32,710,859	100	C
Single-Copy	SRR3105702_Childia_submaculatum	Trinity	25.9	6,089,955	100	C
Single-Copy	SRR331123_Ennucula_tenuis	Trinity	53.8	14,420,942	100	C
Single-Copy	SRR7655554_Ircinia_fasciculata	Trinity	35.9	13,420,109	100	C
Single-Copy	SRR7754744_Krohnitta_subtilis	Trinity	32.2	15,954,007	100	C
Single-Copy	SRR10527303_Octolasmis_warwickii	Trinity	27.6	15,813,391	150	D
Single-Copy	SRR3350463_Dimya_lima	Trinity	34	5,426,850	150	D
Single-Copy	SRR3404576_Brachionus_plicatilis	Trinity	57.7	7,403,847	150	D
Single-Copy	SRR4113507_Calanus_finmarchicus	Trinity	31.7	10,633,606	150	D
Single-Copy	SRR4294206_Millepora_albicornis	Trinity	48.7	24,645,545	150	D
Single-Copy	SRR504694_Corticium_candelabrum	Trinity	33.7	18,897,095	150	D
Single-Copy	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	44.5	5,471,351	150	D
Single-Copy	SRR5626553_Nautilus_pompilius	Trinity	34.4	16,461,197	150	D
Single-Copy	SRR5873556_Neocalanus_Flemingeri	Trinity	60.2	4,112,626	150	D
Single-Copy	SRR8393254_Apostichopus_japonicus	Trinity	26.2	8,289,770	150	D
Single-Copy	SRR8491966_Porites_pukoensis	Trinity	23.5	16,448,725	150	D
Duplicated	ERR3026433_Pinnigorgia_flava	Trinity	27	30,545,400	50	A
Duplicated	ERR3026434_Sinularia_cruciata	Trinity	16.9	22,160,908	50	A
Duplicated	ERR3026435_Tubipora_musica	Trinity	18.1	23,006,724	50	A
Duplicated	ERR3040053_Heliopora_coerulea	Trinity	23.8	29,000,821	50	A
Duplicated	SRR8280777_Godzillignomus_frondosus	Trinity	18.6	14,086,834	75	B
Duplicated	SRR8745910_Galeodes_sp	Trinity	31.8	6,356,774	75	B
Duplicated	SRR8745911_Peripatoides_novaezealandiae_onyc	Trinity	16.6	5,768,550	75	B
Duplicated	ERR1000783_Paracentrotus_lividus	Trinity	33.1	6,803,316	75	B
Duplicated	SRR10744002_Paracentrotus_lividus	Trinity	63.4	13,583,857	75	B
Duplicated	SRR1232685_Nephtys_caeca	Trinity	2.7	1,576,665	75	B
Duplicated	SRR1271607_Gnathostomula_paradoxa	Trinity	26	5,954,962	75	B
Duplicated	SRR1271706_Macrodasys_sp	Trinity	16.1	3,204,609	75	B
Duplicated	SRR1273732_Lepidodermella_squamata	Trinity	11.7	4,370,938	75	B

Duplicated	SRR1273789_Cephalothrix_linearis	Trinity	14	4,869,244	75	B
Duplicated	SRR5569439_Acropora_palmata	Trinity	19.9	10,476,071	75	B
Duplicated	SRR8601367_Acropora_pulchra	Trinity	31.1	14,037,157	75	B
Duplicated	SRR1041944_Ephydatia_muelleri	Trinity	61.1	11,425,188	100	C
Duplicated	SRR1042012_Oscarella_pearsei	Trinity	59.9	11,306,242	100	C
Duplicated	SRR1168575_Spongilla_lacustris	Trinity	43.3	5,136,881	100	C
Duplicated	SRR1711043_Mycale_phylophylla_adult	Trinity	29.6	11,408,543	100	C
Duplicated	SRR1793376_Haliclona_tubifera	Trinity	66.4	16,356,602	100	C
Duplicated	SRR504690_Sycon_coactum	Trinity	35.6	9,098,097	100	C
Duplicated	SRR1145776_Peripatopsis_capensis	Trinity	12.9	11,638,180	100	C
Duplicated	SRR1505119_Monodonta_labio	Trinity	25.3	10,388,770	100	C
Duplicated	SRR1560310_Lyonsia_floridana	Trinity	24.3	9,919,645	100	C
Duplicated	SRR1560359_Mercenaria_campechiensis	Trinity	6.6	11,935,267	100	C
Duplicated	SRR1560432_Neotrigonia_margaritacea	Trinity	10.4	11,215,767	100	C
Duplicated	SRR1560458_Cardites_antiquatus	Trinity	10.4	11,916,756	100	C
Duplicated	SRR1561723_Sphaerium_nucleus	Trinity	18.2	18,539,173	100	C
Duplicated	SRR1611556_Hemithiris_psittacea	Trinity	65.4	9,221,875	100	C
Duplicated	SRR1611560_Malacobdella_grossa	Trinity	73.9	8,307,739	100	C
Duplicated	SRR1611565_Phoronis_psammophila	Trinity	71	12,949,999	100	C
Duplicated	SRR1796434_Catenula_lemnae	Trinity	20.8	3,028,636	100	C
Duplicated	SRR3097584_Florometra	Trinity	56.7	32,710,859	100	C
Duplicated	SRR3105702_Childia_submaculatum	Trinity	55.9	6,089,955	100	C
Duplicated	SRR331123_Ennucula_tenuis	Trinity	40.4	14,420,942	100	C
Duplicated	SRR7655554_Ircinia_fasciculata	Trinity	35.5	13,420,109	100	C
Duplicated	SRR7754744_Krohnitta_subtilis	Trinity	56	15,954,007	100	C
Duplicated	SRR10527303_Octolasmis_warwickii	Trinity	69.9	15,813,391	150	D
Duplicated	SRR3350463_Dimya_lima	Trinity	19.1	5,426,850	150	D
Duplicated	SRR3404576_Brachionus_plicatilis	Trinity	37.8	7,403,847	150	D
Duplicated	SRR4113507_Calanus_finmarchicus	Trinity	48.1	10,633,606	150	D
Duplicated	SRR4294206_Millepora_alcicornis	Trinity	48.6	24,645,545	150	D
Duplicated	SRR504694_Corticium_candelabrum	Trinity	57.5	18,897,095	150	D
Duplicated	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	40.3	5,471,351	150	D
Duplicated	SRR5626553_Nautilus_pompilius	Trinity	27.8	16,461,197	150	D
Duplicated	SRR5873556_Neocalanus_Flemingeri	Trinity	28.6	4,112,626	150	D
Duplicated	SRR8393254_Apostichopus_japonicus	Trinity	65.4	8,289,770	150	D
Duplicated	SRR8491966_Porites_pukoensis	Trinity	75.9	16,448,725	150	D
Fragmented	ERR3026433_Pinnigorgia_flava	Trinity	4.6	30,545,400	50	A
Fragmented	ERR3026434_Sinularia_cruciata	Trinity	11.3	22,160,908	50	A
Fragmented	ERR3026435_Tubipora_musica	Trinity	5.8	23,006,724	50	A
Fragmented	ERR3040053_Heliopora_coerulea	Trinity	8.5	29,000,821	50	A
Fragmented	SRR8280777_Godzillioptomus_frondosus	Trinity	11.3	14,086,834	75	B
Fragmented	SRR8745910_Galeodes_sp	Trinity	13.9	6,356,774	75	B
Fragmented	SRR8745911_Peripatoides_novaezealandiae_onyc	Trinity	9.3	5,768,550	75	B
Fragmented	ERR1000783_Paracentrotus_lividus	Trinity	18	6,803,316	75	B
Fragmented	SRR10744002_Paracentrotus_lividus	Trinity	4.8	13,583,857	75	B
Fragmented	SRR1232685_Nephtys_caeca	Trinity	28.2	1,576,665	75	B
Fragmented	SRR1271607_Gnathostomula_paradoxa	Trinity	25.6	5,954,962	75	B
Fragmented	SRR1271706_Macrodasyus_sp	Trinity	15.4	3,204,609	75	B
Fragmented	SRR1273732_Lepidodermella_squamata	Trinity	25.8	4,370,938	75	B
Fragmented	SRR1273789_Cephalothrix_linearis	Trinity	16.2	4,869,244	75	B
Fragmented	SRR5569439_Acropora_palmata	Trinity	22.5	10,476,071	75	B

Fragmented	SRR8601367_Acropora_pulchra	Trinity	8.3	14,037,157	75	B
Fragmented	SRR1041944_Ephydatia_muelleri	Trinity	1.5	11,425,188	100	C
Fragmented	SRR1042012_Oscarella_pearsei	Trinity	2.7	11,306,242	100	C
Fragmented	SRR1168575_Spongilla_lacustris	Trinity	10.2	5,136,881	100	C
Fragmented	SRR1711043_Mycale_phylophylla_adult	Trinity	13.4	11,408,543	100	C
Fragmented	SRR1793376_Haliclona_tubifera	Trinity	1.3	16,356,602	100	C
Fragmented	SRR504690_Sycon_coactum	Trinity	8.4	9,098,097	100	C
Fragmented	SRR1145776_Peripatopsis_capensis	Trinity	30.3	11,638,180	100	C
Fragmented	SRR1505119_Monodonta_labio	Trinity	12.3	10,388,770	100	C
Fragmented	SRR1560310_Lyonsia_floridana	Trinity	20.1	9,919,645	100	C
Fragmented	SRR1560359_Mercenaria_campechiensis	Trinity	21.8	11,935,267	100	C
Fragmented	SRR1560432_Neotrigonia_margaritacea	Trinity	27.8	11,215,767	100	C
Fragmented	SRR1560458_Cardites_antiquatus	Trinity	33.1	11,916,756	100	C
Fragmented	SRR1561723_Sphaerium_nucleus	Trinity	43.3	18,539,173	100	C
Fragmented	SRR1611556_Hemithiris_psittacea	Trinity	4.2	9,221,875	100	C
Fragmented	SRR1611560_Malacobdella_grossa	Trinity	2.6	8,307,739	100	C
Fragmented	SRR1611565_Phoronis_psammophila	Trinity	6.5	12,949,999	100	C
Fragmented	SRR1796434_Catenula_lemnae	Trinity	18.6	3,028,636	100	C
Fragmented	SRR3097584_Florometra	Trinity	1.2	32,710,859	100	C
Fragmented	SRR3105702_Childia_submaculatum	Trinity	5	6,089,955	100	C
Fragmented	SRR331123_Ennucula_tenuis	Trinity	4.7	14,420,942	100	C
Fragmented	SRR7655554_Ircinia_fasciculata	Trinity	19.4	13,420,109	100	C
Fragmented	SRR7754744_Krohnitta_subtilis	Trinity	8.3	15,954,007	100	C
Fragmented	SRR10527303_Octolasmis_warwickii	Trinity	0.7	15,813,391	150	D
Fragmented	SRR3350463_Dimya_lima	Trinity	29.9	5,426,850	150	D
Fragmented	SRR3404576_Brachionus_plicatilis	Trinity	0.4	7,403,847	150	D
Fragmented	SRR4113507_Calanus_finmarchicus	Trinity	16.8	10,633,606	150	D
Fragmented	SRR4294206_Millepora_alcicornis	Trinity	1	24,645,545	150	D
Fragmented	SRR504694_Corticium_candelabrum	Trinity	5.8	18,897,095	150	D
Fragmented	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	12.9	5,471,351	150	D
Fragmented	SRR5626553_Nautilus_pompilius	Trinity	32.8	16,461,197	150	D
Fragmented	SRR5873556_Neocalanus_Flemingeri	Trinity	7.3	4,112,626	150	D
Fragmented	SRR8393254_Apostichopus_japonicus	Trinity	7.3	8,289,770	150	D
Fragmented	SRR8491966_Porites_pukoensis	Trinity	0.6	16,448,725	150	D
Missing	ERR3026433_Pinnigorgia_flava	Trinity	1.8	30,545,400	50	A
Missing	ERR3026434_Sinularia_cruciata	Trinity	3.8	22,160,908	50	A
Missing	ERR3026435_Tubipora_musica	Trinity	2.6	23,006,724	50	A
Missing	ERR3040053_Heliopora_coerulea	Trinity	2	29,000,821	50	A
Missing	SRR8280777_Godzillignomus_fronodosus	Trinity	6.5	14,086,834	75	B
Missing	SRR8745910_Galeodes_sp	Trinity	3.3	6,356,774	75	B
Missing	SRR8745911_Peripatoides_novaezealandiae_onyc	Trinity	7.4	5,768,550	75	B
Missing	ERR1000783_Paracentrotus_lividus	Trinity	8.1	6,803,316	75	B
Missing	SRR10744002_Paracentrotus_lividus	Trinity	1.8	13,583,857	75	B
Missing	SRR1232685_Nephtys_caeca	Trinity	45.2	1,576,665	75	B
Missing	SRR1271607_Gnathostomula_paradoxa	Trinity	20.3	5,954,962	75	B
Missing	SRR1271706_Macrodasys_sp	Trinity	12	3,204,609	75	B
Missing	SRR1273732_Lepidodermella_squamata	Trinity	22.1	4,370,938	75	B
Missing	SRR1273789_Cephalothrix_linearis	Trinity	4.1	4,869,244	75	B
Missing	SRR5569439_Acropora_palmata	Trinity	11.4	10,476,071	75	B
Missing	SRR8601367_Acropora_pulchra	Trinity	1.9	14,037,157	75	B
Missing	SRR1041944_Ephydatia_muelleri	Trinity	4.1	11,425,188	100	C

Missing	SRR1042012_Oscarella_pearsei	Trinity	4.7	11,306,242	100	C
Missing	SRR1168575_Spongilla_lacustris	Trinity	4.8	5,136,881	100	C
Missing	SRR1711043_Mycale_phylophylla_adult	Trinity	9.2	11,408,543	100	C
Missing	SRR1793376_Haliclona_tubifera	Trinity	4.5	16,356,602	100	C
Missing	SRR504690_Sycon_coactum	Trinity	9	9,098,097	100	C
Missing	SRR1145776_Peripatopsis_capensis	Trinity	8.1	11,638,180	100	C
Missing	SRR1505119_Monodonta_labio	Trinity	3.5	10,388,770	100	C
Missing	SRR1560310_Lyonsia_floridana	Trinity	3.2	9,919,645	100	C
Missing	SRR1560359_Mercenaria_campechiensis	Trinity	57.9	11,935,267	100	C
Missing	SRR1560432_Neotrigonia_margaritacea	Trinity	14.5	11,215,767	100	C
Missing	SRR1560458_Cardites_antiquatus	Trinity	24.2	11,916,756	100	C
Missing	SRR1561723_Sphaerium_nucleus	Trinity	22.1	18,539,173	100	C
Missing	SRR1611556_Hemithiris_psittacea	Trinity	1.3	9,221,875	100	C
Missing	SRR1611560_Malacobdella_grossa	Trinity	3.1	8,307,739	100	C
Missing	SRR1611565_Phoronis_psammophila	Trinity	0.9	12,949,999	100	C
Missing	SRR1796434_Catenula_lemnae	Trinity	28.9	3,028,636	100	C
Missing	SRR3097584_Florometra	Trinity	0.8	32,710,859	100	C
Missing	SRR3105702_Childia_submaculatum	Trinity	13.2	6,089,955	100	C
Missing	SRR331123_Ennucula_tenuis	Trinity	1.1	14,420,942	100	C
Missing	SRR7655554_Ircinia_fasciculata	Trinity	9.2	13,420,109	100	C
Missing	SRR7754744_Krohnitta_subtilis	Trinity	3.5	15,954,007	100	C
Missing	SRR10527303_Octolasmis_warwickii	Trinity	1.8	15,813,391	150	D
Missing	SRR3350463_Dimya_lima	Trinity	17	5,426,850	150	D
Missing	SRR3404576_Brachionus_plicatilis	Trinity	4.1	7,403,847	150	D
Missing	SRR4113507_Calanus_finmarchicus	Trinity	3.4	10,633,606	150	D
Missing	SRR4294206_Millepora_alcicornis	Trinity	1.7	24,645,545	150	D
Missing	SRR504694_Corticium_candelabrum	Trinity	3	18,897,095	150	D
Missing	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	2.3	5,471,351	150	D
Missing	SRR5626553_Nautilus_pompilius	Trinity	5	16,461,197	150	D
Missing	SRR5873556_Neocalanus_Flemingeri	Trinity	3.9	4,112,626	150	D
Missing	SRR8393254_Apostichopus_japonicus	Trinity	1.1	8,289,770	150	D
Missing	SRR8491966_Porites_pukoensis	Trinity	0	16,448,725	150	D