

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



TransP	i - BUSC	03			50	Obp (A) 25,29	,33			50	Obp (B) 25,31,	.35			51	Obp (C) 25,33,	,37	
N° Taxa	1	Total pe-	SRA	Commission 06	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %
1 M. muse		72 540 466	SRR10342165	Complete % 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	Missing %
2 M. muse			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. muse			SRR10342167	97	86	11	0.9	2.1	96.7	86	10.7	1.3	2	97	85.8	11.2	1.0	2
4 M. muse			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. muse	culus		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. muse			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. muse	culus		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. elega			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. elega			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. elega			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. elega		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. elega			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. elega	ens	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. mela	nogaste		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. mela	nogaste	15,181,806	SRR6743335	44.6	41.5	3.1	7.4	48	43.7	40.3	3.4	7.6	48.7	43.7	40.7	3	7.5	48.8
3 D. mela	nogaste		SRR6743336	37	33.6	3.4	8.1	54.9	36.9	33.7	3.2	7.8	55.3	36.8	33.8	3	8	55.2
4 D. mela	nogaste	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. mela			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. mela			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. mela			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. mela			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. mela	nogaste	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
+-					75b	p (A) 25,29,3	3,41			75b	p (B) 25,31,3	5,43		4	75b	p (C) 25,33,3	7,45	
N° Taxa]	Fotal pe- reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
1 M. muse			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. muse			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. muse			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. muse			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. muse			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. muse			SRR10067462 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. elega			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. elega			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. elega			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. elega			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. elega			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. mela			SRR8559044	97.1	77.5	19.6	1.1	1.8	97.5	77.5	20	0.8	1.7	96.8	79.4	17.4	1.4	1.8
2 D. mela			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. mela			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. mela	nogaste		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. mela		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. mela		98,529,578	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
					100	bp (A) 25,35,4	47,61			100	bp (B) 25,37,5	55,63			100	bp (C) 25,41,5	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. muse			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. muse			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. muse			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. muse			SRR5171077	97.3	79.9	17.4	2.2	0.5	96.9	80.8	16.1	2.9	0.2	42.7	40.3	2.4	19.7	37.6
5 M. muse			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. muse	culus		SRR5171095	53.9	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. elega			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. elega	ans		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. elega			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. elega			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. elega			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. elega			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. mela			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. mela			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. mela	nogaste		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. mela	nogaste		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. mela	nogaste	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. mela	nogaste	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
\perp																		L
H					150bp	(A) 25,31,41				150bp	(B) 25,33,43				150br	(C) 25,35,55		
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. muse	culus		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. muse			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. muse			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. muse			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. muse			SRR7079069	95.7	74.5	21.2	2.4	1.9	95.5	75.2	20.3	2.7	1.8	96.1	75.8	20.3	2.5	1.4
1 C. elega			SRR10407359	85.9	76.2	9.7	1.7	12.4	85.7	75.3	10.4	1.8	12.5	85.7	76	9.7	1.7	12.6
2 C. elega			SRR10407358	86.4	75.1	11.3	1.3	12.3	85.8	74.8	11	1.4	12.8	86.3	75.8	10.5	1.3	12.4
3 C. elega			SRR10407357	85.4	74.4	11	2	12.6	85	74	11	2	13	85.6	73.6	12	2	12.4
4 C. elega			SRR10407356	85.7	76	9.7	2	12.3	85.3	75.5	9.8	2.2	12.5	85.7	76.2	9.5	1.8	12.5
5 C. elega			SRR10407355	85.7	75.8	9.9	2.1	12.2	85.3	74.8	10.5	1.9	12.8	85.9	75.3	10.6	2	12.1
			SRR10407354	84.7	74.7	10	2.7	12.6	85	75.2	9.8	2.5	12.5	84.9	74.8	10.1	2.4	12.7
6 C. elega			SRR10407358	83	78.3	4.7	2.6	14.4	83.1	78	5.1	2.5	14.4	83	79.2	3.8	2.4	14.6
6 C. elega	nogasti .			96.2	80.1	16.1	1.3	2.5	95.5	77.3	18.2	1.7	2.8	96.1	80.8	15.3	1.4	2.5
6 C. elega 1 D. mela	nogaste		SRR7716077												23.0	-3.3		
6 C. elega 1 D. mela 2 D. mela	nogaste	47,552,414		95.2	81.8	13.4	1.8	3	95.6	81.9	13.7	1.6	2.8	95.4	83.9	11.5	1.8	2.8
6 C. elega 1 D. mela 2 D. mela 3 D. mela	nogaste nogaste	47,552,414 45,807,064	SRR7716078	95.2	81.8	13.4						1.6					1.8	
6 C. elega 1 D. mela 2 D. mela	nogaste nogaste nogaste	47,552,414 45,807,064 29,221,598					1.8 4 3.1	3 4.9 3.5	95.6 91.1 92.6	81.9 82 80.3	13.7 9.1 12.3		2.8 4.9 4	95.4 91.3 93.4	83.9 80.9 80.4	11.5 10.4 13		2.8 4.7 3.8

Trinit	ty - BUSC	03			. 50	bp (A) 25,29,	.33			. 50	Obp (B) 25,31,	35			. 50	Obp (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. mu			SRR10342165	95.9	67.8	28.1	3				28.6	3				28.7	3.1	1.1
2 M. mu	usculus	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. mu	usculus	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. mu	usculus	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. mu	usculus	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. mu			SRR9211838	93.6		14.9							2.3				4.1	2.3
7 M. mu	usculus	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. ele			SRR4181026	84.6									13.3				2.1	13.3
2 C. ele			SRR4181032	84.9		7.3							12.8		77.7	7.2	2.5	12.6
3 C. ele			SRR4181033	84.7	77.1	7.6							12.7		77.4	7.3	2.7	12.6
4 C. ele			SRR4181034	85.1	77	8.1							12.6		76.4		2.2	12.7
5 C. ele			SRR4181036	85.1									12.3				2.7	12.3
6 C. ele			SRR4181037	85.1									13.1		78.4	6.7	1.8	13.1
	elanogaste		SRR6743334	41.1	33.5	7.6							44.2		32.9	7.8	15.3	44 45.9
	elanogaste		SRR6743335 SRR6743336	38.6 31.9									45.7		31.2 26.3	7.5	15.4 16.7	45.9 51.4
3 D. me	elanogaste		SRR6743336 SRR6743337	35.6				50.7					50.7		26.3	7.5	13.9	51.4
	elanogaste elanogaste		SRR6743337	43.3									41.3				15.5	41.1
	elanogaste		SRR6743339	31.9		9.7.7									23.2	9.1	12.2	55.6
	elanogaste		SRR6743340	37.8									49.4				12.6	49.4
	elanogaste		SRR6743341	35.3									49.7				14.6	49.4
	elanogaste		SRR6743342	60.7	49.5	11.2	12.2	27.1	60.8		11.7	12.2	27	60.6		11.3	12.2	27.2
		.,,		, , , ,														
	1				75b	p (A) 25,29,3	3,41			751	p (B) 25,31,3	5,43			75l	p (C) 25,33,3	7,45	
NOT		Total pe-	CD4	Committee	Single-copy	Duplicated	Fragmented	Minela or	C	Single-copy	Duplicated	Fragmented	Minals - 01	C	Single-copy	Duplicated	Fragmented	Minala or
1 M. mu	ucculu-	reads 22 700 156	SRR10067458	Complete % 97.9	65.4	32.5	1.5	Missing % 0.6	Complete %		31.4	1.4	Missing % 0.5	Complete %	66.1	% 32.1	% 1.3	Missing % 0.5
1 M. mu			SRR10067458 SRR10067459	97.9		32.5 40.1		0.6					0.5		58.2	32.1 40.2	1.3	0.5
2 M. mu			SRR10067459 SRR10067460	98.5													0.6	0.6
4 M. mu			SRR10067460 SRR10067461	98.6		42.5							2.3				4.3	2.3
5 M. mu			SRR10067461	95.6									1.8		55.4	40.9	1.9	1.8
6 M. mu			SRR10067462 SRR10067463	96.4	52.2	41.8							2.3		52.1	41.8	3.9	2.2
1 C. ele			SRR1585277	86.2		16.5							11.7		69.4	16.8	2.1	11.7
2 C. ele			SRR1585278	86.4									11.9		69.4	17.1	1.8	11.7
3 C. ele			SRR8257107	84.8		9.2							12.9		75.8	8.9	2.4	12.9
4 C. ele			SRR8257108	84.7									13.4		75.1		1.9	13.4
5 C. ele	gans	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
	elanogaste		SRR8559044	98	57.1	40.9						0.9	1.2		58.5		0.9	1.2
2 D. me	elanogaste	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. me	elanogaste	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
	elanogaste		SRR8559047	98.1		43.4									54.4		0.7	1.2
	elanogaste	102,413,880	SRR8559048	98.3				0.9									0.8	0.9
6 D. me	elanogaste	98,529,578	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
_							<u> </u>							-				
-		Total pe-			Single-copy	Duplicated	Fragmented			Single-copy	bp (B) 25,37,5 Duplicated	Fragmented			Single-copy	bp (C) 25,41,5 Duplicated	Fragmented	
Nº Taxa		reads	SRA	Complete %	%	%	%	Missing %	Complete %	%	%	%	Missing %	Complete %	%	%	%	Missing %
1 M. mu			SRR1017092	98.9		64.6					67.4		0.3		32.9	65.8	0.9	0.4
2 M. mu			SRR1017093	98.8		63.6					64.5		0.3		35.4	63.5	0.5	0.6
3 M. mu			SRR1017094	99.1									0.3		33.8	65.1	0.7	0.4
4 M. mu			SRR5171077	43.3		8.6							26.3			. 9	30.3	26.3
5 M. mu			SRR5171085	98.1	40.3	57.8							0.1				1.8	0.2
6 M. mu			SRR5171095	55.3									16.6				28.1	16.6
1 C. ele			SRR2142254 SRR2142255	82.1 82.1	68.8 70.9								14.6		68.2 70.8		3.9	14.1 14.6
2 C. ele			SRR2142255 SRR2015313	63.5		17.5							19.3			17.4	17.2	19.3
			SRR2015313	79.4									14.6				6	14.7
4 C. ele			SRR2015311 SRR2012785	79.4 85.7	68.9	16.8							11.7		68.1	19.8		14.7
6 C. ele			SRR2012783	69.4		10.3							17.9			10.6		17.9
	elanogaste		SRR3018852	97.2									2.2				0.5	2.2
	elanogaste		SRR3018855	96.5		34.4		2.5					2.4				1	2.4
	elanogaste		SRR3018862	96.9									1.9				1.1	2
	elanogaste		SRR3019045	97									2.1		60.2		0.9	2.1
5 D. me	elanogaste		SRR3019179	96.6				2.3				1.1	2.5	96.6	61.6	35	1.1	2.3
6 D. me	elanogaste	19,049,236	SRR3019184	96.3	67.4	28.9	1.3	2.4	96.4	66.8	29.6	1.3	2.3		66.8	29.6	1.3	2.3
Н.						(A) 25,31,41				150bj	(B) 25,33,43	,53,71			150bj	(C) 25,35,55		
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. mu	usculus	21,173,335	SRR10560364	98.4	48.7	49.7	0.6			47.8	50.6	0.6	1	98.4	48.8	49.6	0.6	1
2 M. mu						53.3							0.9			51.8	0.6	0.9
		22,731,971	SRR10560365	98.6								3.2	1.3	95.5	38.5	57	3.2	1.3
3 M. mu			SRR10560365 SRR8329325	98.6 95.5		56.2	3.2	1.3	95.5	38.1	57.4							1.2
	usculus	68,712,046			39.3								1.2			60.6	1.3	
3 M. mu	usculus usculus	68,712,046 59,012,049	SRR8329325	95.5	39.3 36.6	60.7	1.5	1.2	97.2 97.5	36.2	61	1.6		97.5			1.3 1.4	0.7
3 M. mu 4 M. mu	usculus usculus usculus	68,712,046 59,012,049 21,930,527	SRR8329325 SRR8329326	95.5 97.3	39.3 36.6 41.6	60.7 56	1.5	1.2 0.8	97.2 97.5	36.2	61 57.5	1.6	1.2	97.5 9 7.9	36.9	60.6		0.7 11.6
3 M. mu 4 M. mu 5 M. mu	usculus usculus usculus egans	68,712,046 59,012,049 21,930,527 20,345,696	SRR8329325 SRR8329326 SRR7079069	95.5 97.3 97.6	39.3 36.6 41.6 71.8	60.7 56 15	1.5 1.6 1.6	1.2 0.8 11.6	97.2 97.5 86.8	36.2 40 72	57.5 14.8	1.6 1.6 1.6	1.2	97.5 9 97.9 5 86.8	36.9 40.4 72.9	60.6 57.5	1.4	
3 M. mu 4 M. mu 5 M. mu 1 C. ele	usculus usculus usculus gans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493	SRR8329325 SRR8329326 SRR7079069 SRR10407359	95.5 97.3 97.6 86.8	39.3 36.6 41.6 71.8 71.6	60.7 56 15	1.5 1.6 1.6 1.5	1.2 0.8 11.6 11.5	97.2 97.5 86.8	36.2 40 72 70.8	57.5 14.8 16.2	1.6 1.6 1.6 1.5	1.2 0.9 11.6	97.5 9 97.9 6 86.8 6 86.8	36.9 40.4 72.9	60.6 57.5 13.9	1.4 1.6	11.6
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele	usculus usculus usculus gans gans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358	95.5 97.3 97.6 86.8	39.3 36.6 41.6 71.8 71.6	60.7 56 15 15.4 15.2	1.5 1.6 1.6 1.5 1.5	1.2 0.8 11.6 11.5 11.5	97.2 97.5 86.8 87.8	36.2 40 72 70.8 70.2	61 57.5 14.8 16.2 16.5	1.6 1.6 1.6 1.5 1.5	1.2 0.9 11.6 11.5	97.5 9 97.9 6 86.8 6 86.8 6 86.7	36.9 40.4 72.9 71.5	60.6 57.5 13.9 15.3	1.4 1.6 1.6	11.6 11.6
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele 3 C. ele	usculus usculus usculus gans gans gans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358 SRR10407357	95.5 97.3 97.6 86.8 87	39.3 36.6 41.6 71.8 71.6	60.7 56 15 15.4 15.2 12.3	1.5 1.6 1.6 1.5 1.9	1.2 0.8 11.6 11.5 11.5	97.2 97.5 86.8 87 86.7	70.8 70.2 70.8 70.2 70.2	61 57.5 14.8 16.2 16.5	1.6 1.6 1.5 1.5 1.8	1.2 0.9 11.6 11.5	97.5 9 97.9 6 86.8 6 86.8 6 86.7 8 86.4	36.9 40.4 72.9 71.5 71.1	60.6 57.5 13.9 15.3	1.4 1.6 1.6 1.8	11.6 11.6 11.5
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele 3 C. ele 4 C. ele	usculus usculus usculus gans gans gans gans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,010	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358 SRR10407357 SRR10407355 SRR10407355 SRR2012781	95.5 97.3 97.6 86.8 87 86.6 86.3 86.5	39.3 36.6 41.6 71.8 71.6 71.4 74 72 70.3	60.7 56 15. 15.4 15.2 12.3 14.5	1.5 1.6 1.6 1.5 1.9 2 1.6	1.2 0.8 11.6 11.5 11.5 11.7 11.9	97.2 97.5 86.8 87 86.7 86.2 86.4	36.2 40 72 70.8 70.2 74.3 73.2	61 57.5 14.8 16.2 16.5 11.9 13.2	1.6 1.6 1.6 1.5 1.8 2 1.7	1.2 0.9 11.6 11.5 11.5	97.5 9 97.9 6 86.8 6 86.8 6 86.7 8 86.4 9 86.2	36.9 40.4 72.9 71.5 71.1 73 72.3 71.1	60.6 57.5 13.9 15.3 15.6 13.4 13.9 15.2	1.4 1.6 1.6 1.8 1.9 1.7	11.6 11.6 11.5 11.7 12.1 11.8
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele 3 C. ele 4 C. ele 5 C. ele 6 C. ele 1 D. me	usculus usculus usculus gans gans gans gans gans gans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,010 8,276,228	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358 SRR10407356 SRR10407355 SRR10407355 SRR2012781 SRR10407358	95.5 97.3 97.6 86.8 87 86.6 86.3 86.3 86.3	39.3 36.6 41.6 71.8 71.6 71.4 74 72 70.3	60.7 56 15.4 15.2 12.3 14.5 15.7 9.7	1.5 1.6 1.6 1.5 1.9 2 1.6 1.9	1.2 0.8 11.6 11.5 11.7 11.7 11.9 12.1	97.2 97.5 86.8 87 86.7 86.2 86.4 86.3	36.2 40 72 70.8 70.2 74.3 73.2 71.2 75.3	61 57.5 14.8 16.2 16.5 11.9 13.2 15.1 9.1	1.6 1.6 1.6 1.5 1.8 2 1.7 1.9	1.2 0.9 11.6 11.5 11.5 11.8 11.8	97.5 9 97.9 6 86.8 6 86.8 6 86.7 8 86.4 9 86.2 8 86.3 8 86.3	36.9 40.4 72.9 71.5 71.1 73 72.3 71.1 75.1	60.6 57.5 13.9 15.3 15.6 13.4 13.9 15.2 9.4	1.4 1.6 1.6 1.8 1.9 1.7 1.9 2.5	11.6 11.5 11.7 12.1 11.8
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele 3 C. ele 4 C. ele 5 C. ele 1 D. me 2 D. me	usculus usculus usculus usculus usculus usans ugans ugans ugans ugans ugans ugans ugans	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,010 8,276,228 47,552,414	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407355 SRR10407355 SRR10407355 SRR2012781 SRR2012781 SRR10407358	95.5 97.3 97.6 86.8 87 86.6 86.3 86.5 86.5	39.3 36.6 41.6 71.8 71.6 71.4 74 72 70.3 74.7	60.7 56 15.4 15.2 12.3 14.5 15.7 9.7	1.5 1.6 1.6 1.5 1.9 2 1.6 1.9 2.5	1.2 0.8 11.6 11.5 11.7 11.7 11.9 12.1	97.2 97.5 86.8 87 86.7 86.2 86.4 86.3 84.4	36.2 40 72 70.8 70.2 74.3 73.2 71.2 75.3	61 57.5 14.8 16.2 16.5 11.9 13.2 15.1 9.1	1.6 1.6 1.5 1.8 2 1.7 1.9 2.6	1.2 0.9 11.6 11.5 11.5 11.8 11.9	97.5 9 97.9 6 86.8 6 86.8 6 86.7 8 86.4 9 86.2 8 86.3 8 86.3	36.9 40.4 72.9 71.5 71.1 73 72.3 71.1 75.1 58.2	60.6 57.5 13.9 15.3 15.6 13.4 13.9 15.2 9.4 39.1	1.4 1.6 1.6 1.8 1.9 1.7 1.9 2.5 0.8	11.6 11.6 11.5 11.7 12.1 11.8 13
3 M. mu 4 M. mu 5 M. mu 1 C. ele 2 C. ele 3 C. ele 4 C. ele 5 C. ele 1 D. me 2 D. me 3 D. me	usculus usculu	68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,010 8,276,228 47,552,414 45,807,064	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407355 SRR2012781 SRR10407358 SRR716077 SRR7716077	95.5 97.3 97.6 86.8 87 86.6 86.3 86.5 86.9 97.3	39.3 36.6 41.6 71.8 71.6 71.4 72 70.3 74.7 57.6 61.5	60.7 56 15.4 15.2 12.3 14.5 15.7 9.7 39.7	1.5 1.6 1.6 1.5 1.9 2 1.6 1.9 2.5 0.8	1.2 0.8 11.6 11.5 11.7 11.9 12.1 13.1 1.9	97.2 97.5 86.8 83. 86.7 86.4 86.3 84.4	36.2 40 72 70.8 70.2 74.3 73.2 71.2 75.3 58	61 57.5 14.8 16.2 16.5 11.9 13.2 15.1 9.1 39.1	1.6 1.6 1.5 1.8 2 1.7 1.9 2.6 0.9	1.2 0.5 11.6 11.5 11.5 11.8 11.7 11.8	97.5 97.9 6 86.8 6 86.8 6 86.7 8 86.4 9 86.2 8 86.3 8 84.5 9 97.3	36.9 40.4 72.9 71.5 71.1 73 72.3 71.1 75.1 58.2 62.1	60.6 57.5 13.9 15.3 15.6 13.4 13.9 15.2 9.4 39.1 34.5	1.4 1.6 1.6 1.8 1.9 1.7 1.9 2.5 0.8	11.6 11.6 11.5 11.7 12.1 11.8 13 1.9
3 M. mu. 4 M. mu. 5 M. mu. 1 C. ele 2 C. ele 3 C. ele 4 C. ele 5 C. ele 6 C. ele 1 D. me 2 D. me 4 D. me	usculus usculus usculus usculus usculus usans ugans ugans ugans ugans ugans ugans ugans	68,712,046 59,012,049 21,930,527 20,345,696 21,276,093 23,993,704 25,110,365 22,967,010 8,276,228 45,807,064 29,221,598	SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407355 SRR10407355 SRR10407355 SRR2012781 SRR2012781 SRR10407358	95.5 97.3 97.6 86.8 87 86.6 86.3 86.5 86.5	39.3 36.6 41.6 71.8 71.6 71.4 74 72 70.3 74.7 57.6 61.5	60.7 56 15.4 15.2 12.3 14.5 15.7 9.7	1.5 1.6 1.6 1.5 1.9 2 1.6 1.9 2.5 0.8 1.5	1.2 0.8 11.6 11.5 11.7 11.9 12.1 13.1 1.9 2.1	97.2 97.5 86.8 86.2 86.2 86.4 96.3 84.4 97.1 96.4	36.2 40 72 70.8 70.2 74.3 73.2 75.3 58 62.4 63.5	61 57.5 14.8 16.2 16.5 11.9 13.2 15.1 9.1 39.1 34	1.6 1.6 1.5 1.8 2 1.7 1.9 2.6 0.9 1.5	1.2 0.9 11.6 11.5 11.5 11.8 11.9	97.5 9 97.9 6 86.8 6 86.8 6 86.7 8 86.4 9 86.2 8 86.3 8 84.5 2 97.3 1 96.6	36.9 40.4 72.9 71.5 71.1 73 72.3 71.1 75.1 58.2	60.6 57.5 13.9 15.3 15.6 13.4 13.9 15.2 9.4 39.1 34.5	1.4 1.6 1.6 1.8 1.9 1.7 1.9 2.5 0.8	11.6 11.6 11.5 11.7 12.1 11.8 13

П	TransPi - BUS	CO4			50	Obp (A) 25,29	33			50	Obp (B) 25,31,	35			50	bp (C) 25,33,	.37	
	Taxa	Total pe- reads	SRA	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %
	M. musculus		SRR10342165	96.8	86.5	10.3	0.8	2.4	96.6		9.7	1.2			87.1	10	0.7	
	M. musculus		SRR10342166	96.4	86.5	9.9	1.2	2.4	96.7		9.9	1	2.3	96.5	85.4	11.1	1	2.5
3	M. musculus		SRR10342167	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	
	M. musculus		SRR9211836	95.5	86.1	9.4	0.9	3.6	95.8		8.8	0.8		95.4	86.2	9.2	1	3.6
	M. musculus		SRR9211837	93.8	84.6	9.2	1.9	4.3	93.9		8.9	2	4.1	94	84.5	9.5		4.1
	M. musculus		SRR9211838	94.9	86.4	8.5		3.6	95.2			1.3	3.5	95.3	86.6	8.7	1.3	3.4
	M. musculus C. elegans		SRR9211839 SRR4181026	94.6 75.2	85.2 70.2	9.4	1.4	22.1	94.8 75.4		10.7	1.4	3.8	94.8 75.2	84.4 70.4	10.4		3.8 22.1
	C. elegans		SRR4181026 SRR4181032	75.2	70.2	5.1		22.1	75.4			2.6	22.6	75.2 75.5	69.8	4.8 5.7	2.7	22.1
3	C. elegans		SRR4181033	75.7	70.3	4.7	2.2	22.1	75.2		3.9	2.2	21.8	75.8	71.6	4.2	2.2	22.3
	C. elegans		SRR4181034	75.7	70.4			22	76.1			2.1	21.8	75.9	71.0	4.9		
	C. elegans	26,417,070	SRR4181036	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	SRR4181037	75.3	69.6	5.7	2.4	22.3	75.3		5.7	2.3	22.4	75.1	70	5.1	2.3	22.6
	D. melanogaste		SRR6743334	39.4	36.8			54.7	39.5			6.5	54	39.8	37.1	2.7	6	
	D. melanogaste		SRR6743335	38.4	36.8	1.6		55.2	38.1		1.8	5.8	56.1	37.9	36.2	1.7	6.4	55.7
	D. melanogaste		SRR6743336 SRR6743337	30.6 34.3	28.5 31.9		6.7	62.7 61.2	30.1 33.5		2.2	6.5	63.4	30.1 34.6	28.4 32.6	1.7	6.6	
- 4	D. melanogaste D. melanogaste	19 974 036	SRR6743337	34.3 42.7	31.9	2.4	6.4	50.9	41.8		2.4	6.9	51.3	34.6 42.5	40.1	2.4	6.6	
	D. melanogaste D. melanogaste		SRR6743339	29.8	28.1			63.5	29.7			7.1	63.2	29.5	28.2	1.3		
	D. melanogaste		SRR6743340	37.7	35.5			57	37.1				57.8		36.5	1.7		
	D. melanogaste		SRR6743341	33.5	30.8		6.4	60.1	33.7			6.5			32	1.9		
9	D. melanogaste	26,395,792	SRR6743342	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
Ш																		
\vdash		Tatal C			75b	p (A) 25,29,3	3,41 Fragmented			75t	p (B) 25,31,3	5,43			75b	p (C) 25,33,3	7,45	
No.	Taxa	Total pe- reads	SRA	Complete %	Single-copy %	Duplicated %	%	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %
	M. musculus	33,700,156	SRR10067458	96	84.5	11.5	1.9	2.1	95.7	83.2	12.5	2			84.1	11.9	2	
2	M. musculus	41,236,457	SRR10067459	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	
	M. musculus		SRR10067460	96.2	82.8	13.4	0.8	3	96.4		12.6	0.9	2.7	96.1	83.3	12.8	0.9	3
	M. musculus		SRR10067461	94.4	84.4	10		3.7	93.9		10	2.1	4	94.4	84.2	10.2		3.7
	M. musculus		SRR10067462	95.8 94.5	85.1 84.6	10.7	1.2	3.3	96		10.2	1.2	2.8	95.8 94.5	85.2 84.5	10.6		3.3
	M. musculus		SRR10067463									2				10		3.4
	C. elegans C. elegans		SRR1585277 SRR1585278	75.3 75.5	65.6 63.9			22.3	75.6 75.4		8.9	2.5	21.9 22.4	75.4 75.2	66.1 64.4	9.3	2.4	22.2 22.6
	C. elegans		SRR8257107	73.9	69.9		2.7	23.4	74.2		4.5	2.6		74.7	70.4	4.3		
	C. elegans		SRR8257108	74.7	71.6			22.8	74.9			2.3	22.8	75	71.5	3.5		
5	C. elegans		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
	D. melanogaste	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. melanogaste		SRR8559045	94.6	75.7	18.9	0.8	4.6	95.2			0.6	4.2	94.8	76.7	18.1	0.6	
	D. melanogaste		SRR8559046	95.2	75.6			4	95.2					95.5	78.1	17.4		
	D. melanogaste		SRR8559047	95.5	77.6			4.1	95.5			0.6		95.7	78.6	17.1		3.6
	D. melanogaste D. melanogaste		SRR8559048 SRR8559049	94.7 95	72.1 75.3	22.6 19.7	0.9	4.4	94.9 95.2		22.6	0.9	4.2	94.8 94.4	73.5 77.4	21.3	1.2	4.8
0	D. IIIelaliogaste	90,329,370	3KK0339049		/3.3	19.7	0.0	4.4	93.2	70.4	10.0	0.0	4.2	54.4	//.4	1/	0.0	4.0
					100	bp (A) 25,35,4	7,61			100	bp (B) 25,37,5				1001	op (C) 25,41,5		
No.	Taxa	Total pe- reads	SRA	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %
	M. musculus		SRR1017092	95.3	79.6	15.7	1.8	2.9	95.7		17.1	1.5			77.9	17.4	1.5	
2	M. musculus	107,280,600	SRR1017093	96	76.5		1.8	2.2	96	80.7	15.3	1.4	2.6	96.9	78.8	18.1	1.2	1.9
	M. musculus		SRR1017094	96.2	80.9	15.3	0.7	3.1	96		16.6	1.3	2.7	96.8	80.8	16		2.3
	M. musculus		SRR5171077	96.2	81	15.2		1.8	96.1		13.4	2.1	1.8		33.3	0.6		
	M. musculus		SRR5171085	96.4	81.4	15		2.1	96.7			1.3	2	96.1	80.2	15.9		2.2
	M. musculus		SRR5171095	45.3	43.1	2.2		33.3	44.9			21.3	33.8	45	43	2	21.4	33.6
	C. elegans C. elegans		SRR2142254 SRR2142255	73.1 73.5	70.1 72.1	1.4		23.8	73.3 73.4		2.4	3.1	23.6	73.3 73.2	70.6 70.9	2.7	2.9	23.8
	C. elegans		SRR2142233 SRR2015313	56.6	55.1	1.4	11.6	31.8	56.4		0.8	12.1	31.5	56.4	55.5	0.9	12.1	31.5
	C. elegans		SRR2015311	69.5	67.6			24.9	69.7			5.7	24.6	69.7	68.1	1.6		24.6
	C. elegans		SRR2012785	74.8	64.7	10.1		22.6	75.1		10	2.5		75.1	64.2	10.9		22.5
6	C. elegans	14,372,593	SRR2012781	53.9	48.7	5.2	13.1	33	53.5		4.8	13.3	33.2		48.6	5.1	13.2	33.1
	D. melanogaste		SRR3018852	94.1	81.1			5.4	94.1			0.5		94.7	80.3	14.4		
	D. melanogaste		SRR3018855	93.5	77.3	16.2	0.9	5.6	93.5		15.3	0.8	5.7	93.6	76.9	16.7	1.3	5.1
	D. melanogaste		SRR3018862	94.2	82.3			5	94.7			0.9		94.9	83.9	11		
	D. melanogaste D. melanogaste	30,140,704	SRR3019045 SRR3019179	94.4	80.6 80.8	13.8 13.2		5.2 5.5	94.2			0.6		93.7 94.1	80.5 81.4	13.2	0.5	5.8 5.5
	D. meianogaste D. melanogaste		SRR3019179 SRR3019184	93.6	80.8	12.7	0.5	5.5	93.9		11.1	1.2	5.5	94.1	82.5	11.2	1.2	5.5
J		. 15,0.5,230	2	75.0	30.5	12.7	0.9	3.3	95.0	32.3	11	1.2	3.2	,,,,	32.3	11.2	1.2	3.1
					-	(A) 25,31,41	,51,65			150bi	(B) 25,33,43 Duplicated	,53,71			150bp	(C) 25,35,55	,75,85	
					150bp	(17) 20/02/42											Fragmented	
No	Taxa	Total pe-	SRA	Complete %	Single-copy	Duplicated %	Fragmented %	Missing %	Complete %	Single-copy %	%	Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	%	
	Taxa M. musculus	reads	SRA SRR10560364	Complete %	Single-copy % 82.2	Duplicated %	Fragmented %	Missing %	Complete %	%	% 13.5	% 1.5	Missing %	Complete % 96.7	% 83.4	% 13.3	% 1.6	Missing % 1.7
1	Taxa M. musculus M. musculus	21,173,335 22,731,971	SRR10560364 SRR10560365		82.2 79.1	Duplicated % 14.7 17.3	1.6 1.5		96.8 96.7	% 8 83.3 7 80.3	% 13.5 16.4	% 1.5 1.4	1.7 1.9	96.7 96.5	% 83.4 79.9	% 13.3 16.6	1.6	1.7 2.3
1 2 3	M. musculus M. musculus M. musculus	21,173,335 22,731,971 68,712,046	SRR10560364 SRR10560365 SRR8329325	96.9	82.2 79.1 84.3	14.7 17.3 10.2	1.6 1.5 1.6	1.5 2.1 3.9	96.8 96.7 94.6	% 83.3 7 80.3 6 85.1	% 13.5 16.4 9.5	% 1.5 1.4 2.1	1.7 1.9 3.3	96.7 96.5 94	% 83.4 79.9 84.6	% 13.3 16.6 9.4	% 1.6 1.2 2.4	1.7 2.3 3.6
1 2 3 4	M. musculus M. musculus M. musculus M. musculus	21,173,335 22,731,971 68,712,046 59,012,049	SRR10560364 SRR10560365 SRR8329325 SRR8329326	96.9 96.4 94.5 96	82.2 79.1 84.3 82.7	Duplicated % 14.7 17.3 10.2 13.3	1.6 1.5 1.6 1.3	1.5 2.1 3.9 3.7	96.8 96.7 94.6 95.6	8 83.3 80.3 85.1 88.3	13.5 16.4 9.5	1.5 1.4 2.1 1.7	1.7 1.9 3.3 2.7	96.7 96.5	% 83.4 79.9	% 13.3 16.6	1.6	1.7 2.3
1 2 3 4 5	M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus	21,173,335 22,731,971 68,712,046 59,012,049 21,930,527	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069	96.9 96.4 94.5 96 93.6	82.2 79.1 84.3 82.7 78.3	Duplicated % 14.7 17.3 10.2 13.3 15.3	1.6 1.5 1.6 1.3 2.6	1.5 2.1 3.9 3.7 3.8	96.8 96.7 94.6 95.6 94.3	% 83.3 80.3 85.1 83.3 80.	9.5 12.6 14.3	1.5 1.4 2.1 1.7 2.1	1.7 1.9 3.3 2.7 3.6	96.7 96.5 94 95.9	83.4 79.9 84.6 82.6	13.3 16.6 9.4 13.3	1.6 1.2 2.4 1.3	1.7 2.3 3.6 2.8
1 2 3 4 5	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans	21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359	96.9 96.4 94.5 96 93.6 75.6	82.2 79.1 84.3 82.7 78.3 69.1	14.7 17.3 10.2 13.3 15.3 6.5	1.6 1.5 1.6 1.3 2.6 2.4	1.5 2.1 3.9 3.7 3.8 22	96.8 96.7 94.6 95.6 94.3 75.3	% 83.3 83.3 80.3 85.1 83 83 80 85.1 83 80 84 85 85 85 85 85 85 85	9.5 12.6 14.3 7.2	1.5 1.4 2.1 1.7 2.1 2.7	1.7 1.9 3.3 2.7 3.6 22	96.7 96.5 94 95.9 75.5	83.4 79.9 84.6 82.6	13.3 16.6 9.4 13.3	1.6 1.2 2.4 1.3	1.7 2.3 3.6 2.8
1 2 3 4 5 1	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans	21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696 19,948,493	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358	96.9 96.4 94.5 96 93.6 75.6	% 82.2 79.1 84.3 82.7 78.3 69.1 69.3	14.7 17.3 10.2 13.3 15.3 6.5 6.7	1.6 1.5 1.6 1.3 2.6 2.4 2.2	1.5 2.1 3.9 3.7 3.8 22 21.8	96.8 96.7 94.6 95.6 94.3 75.3	% 83.3 80.3 85.1 83.3 80.3 85.1 83.3 80.3 80.3 80.3 68.1 69.4	13.5 16.4 9.5 12.6 14.3 7.2 6.7	1.5 1.4 2.1 1.7 2.1 2.7 2.1	1.7 1.9 3.3 2.7 3.6 22 21.8	96.7 96.5 94 95.9 75.5 76.1	83.4 79.9 84.6 82.6 69.5 69.6	13.3 16.6 9.4 13.3 6 6.5	% 1.6 1.2 2.4 1.3 2.7 2.1	1.7 2.3 3.6 2.8 21.8 21.8
1 2 3 4 5 1 2	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans	21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358	96.9 96.4 94.5 96 93.6 75.6 76	82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5	14.7 17.3 10.2 13.3 15.3 6.5 6.7	1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5	1.5 2.1 3.9 3.7 3.8 22 21.8	96.8 96.7 94.6 95.6 94.3 75.3 76.1	% 83.3 80.3 85.1 83.3 80.3 85.1 83.3 80.3 80.3 68.1 69.4 67.1	13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3	1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3	96.7 96.5 94 95.9 75.5 76.1 75.7	83.4 79.9 84.6 82.6 69.5 69.6 66.2	13.3 16.6 9.4 13.3 6 6.5 9.5	% 1.6 1.2 2.4 1.3 2.7 2.1 2.3	1.7 2.3 3.6 2.8 21.8 21.8 22
1 2 3 4 5 1 2 3 4	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans C. elegans C. elegans	21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407357	96.9 96.4 94.5 96 93.6 75.6	82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5	Duplicated % 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9	1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5	1.5 2.1 3.9 3.7 3.8 22 21.8	96.8 96.7 94.6 95.6 94.3 75.3 76.1	% 83.3 80.3 85.1 85.1 85.1 85.1 86.4 86.	13.5 16.4 9.5 12.6 14.3 7.2 6.7	1.5 1.4 2.1 1.7 2.1 2.7 2.1	1.7 1.9 3.3 2.7 3.6 22 21.8	96.7 96.5 94 95.9 75.5 76.1	83.4 79.9 84.6 82.6 69.5 69.6	13.3 16.6 9.4 13.3 6 6.5	1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3	1.7 2.3 3.6 2.8 21.8 21.8 22 22
1 2 3 4 5 1 2 3 4 5	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans	21,173,335 22,731,971 68,712,046 59,012,045 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407358	96.9 96.4 94.5 96 93.6 75.6 76 75.4	Single-copy % 82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5	Duplicated % 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9	Fragmented % 1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5 2.5	1.5 2.1 3.9 3.7 3.8 22 21.8 22.1	96.8 96.7 94.6 95.6 94.3 75.3 76.1 75.4	% 83.3 83.3 80.3 85.1 83.3 80.3 80.3 80.4 68.1 69.4 67.1 68.4 67.7	9% 13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3	1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.3 2.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3	96.7 96.5 94 95.9 75.5 76.1 75.7 75.7	83.4 79.9 84.6 82.6 69.5 69.6 66.2 67.5	13.3 16.6 9.4 13.3 6 6.5 9.5	1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3	1.7 2.3 3.6 2.8 21.8 21.8 22 22
1 2 3 4 5 1 2 3 4 5 6	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans C. elegans C. elegans C. elegans	21,173,335 22,731,971 68,712,046 59,012,046 21,930,527 20,345,696 19,948,492 21,276,093 23,993,704 25,110,365 22,967,010	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079065 SRR10407359 SRR10407358 SRR10407356 SRR10407356	96.9 96.4 94.5 96 93.6 75.6 75.4 75.5 75.7	82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5 67.5	Duplicated 9% 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9 8 7.4	Fragmented % 1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5 2.5 2.1 2.8	1.5 2.1 3.9 3.7 3.8 22 21.8 22.1 22	96.8 96.7 94.6 95.6 94.3 75.3 76.1 75.4 75.4	9% 83.3 80.3 85.1 85.1 85.1 85.1 86.1 86.1 66.4 67.1 68.4 67.7 68.8 68.8 68.8 68.8 67.7 68.8 68.8 68.8 68.8 67.7 68.8 68.8 68.8 68.8 67.7 68.8 68	13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3	1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.3 2.4 2.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3 22.2	96.7 96.5 94 95.9 75.5 76.1 75.7 75.7	83.4 79.9 84.6 82.6 69.5 69.6 66.2 67.5 68.2	9% 13.3 16.6 9.4 13.3 6 6.5 9.5 8.2	% 1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3 2.3	1.7 2.3 3.6 2.8 21.8 21.8 22 22 22
1 2 3 4 5 1 2 3 4 5 6 1 2	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans C. elegans C. elegans C. elegans D. melanogaste D. melanogaste	21,173,335 22,731,971 68,712,046 59,012,046 21,930,527 20,345,696 21,276,093 23,993,704 25,110,365 22,967,010 48,276,226 47,552,414	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407355 SRR10407355 SRR10407355 SRR10407358 SRR10407358	96.9 96.4 94.5 96 93.6 75.6 75.7 75.7 75.7 75.2	82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5 68.3 68.4 71	Duplicated 9% 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9 8 7.4 6.8 3.2 14.5	Fragmented % 1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5 2.5 2.1 2.8 3 1.3	1.5 2.1 3.9 3.7 3.8 22 21.8 22.1 22 22.2 22.2	96.8 96.7 94.6 95.6 94.3 75.3 76.1 75.4 75.4 75.4 93.8	% 83.3 83.3 80.3 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1	9% 13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3 7 7.5 6.6 3.9	96 1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.7 2.1 2.3 2.4 2.3 2.7 2.9 1.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3 22.2 22.5 21.9 23.1 4.9	96.7 96.5 94 95.9 75.5 76.1 75.7 75.6 74.9 94.8	9% 83.4 79.9 84.6 82.6 69.5 69.6 66.2 67.5 68.2	96 13.3 16.6 9.4 13.3 6 6.5 9.5 8.2 7.4 6.9 3	96 1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3 2.3 2.8 3	1.7 2.3 3.6 2.8 21.8 21.8 22 22 22.1 22.3 22.7 4
1 2 3 4 5 1 2 3 4 5 6 1 2	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans D. melanogaste D. melanogaste D. melanogaste	21,173,335 22,731,971 68,712,046 59,012,045 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,016 8,276,228 47,552,414 45,807,064	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407356 SRR10407355 SRR10407354 SRR10407354 SRR10407354 SRR10407354 SRR10407354	96.9 96.4 94.5 96 93.6 75.6 75.4 75.5 75.7 75.2 74.2 94.5	82.2 79.1. 84.3 82.7 78.3 69.1 69.3 67.5 68.3 68.4 71 80 81.7	Duplicated % 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9 8 7.4 6.8 3.2 14.5 11.7	Fragmented % 1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5 2.5 2.1 2.8 3 1.3 1.1	1.5 2.1 3.9 3.7 3.8 22 21.8 22.1 22 22.2 22.2 22.8 4.2	96.8 96.7 94.6 95.6 94.3 75.3 76.1 75.4 75.4 75.4 93.8	% 83.3 83.3 80.3 85.1 83.8 80.6 68.1 69.4 67.1 68.4 67.7 68.8 70.1 77.8 81.4 81.	9% 13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3 7 7.5 6.6 3.9 16	96 1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.3 2.4 2.3 2.7 2.9 1.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3 22.2 22.5 21.9 23.1 4.9	96.7 96.5 94 95.9 75.5 76.1 75.7 75.6 74.9 94.8	9% 83.4 79.9 84.6 82.6 69.5 69.6 66.2 67.5 68.2 68.3 11.4 83.6	9% 13.3 16.6 9.4 13.3 6 6.5 9.5 8.2 7.4 6.9 3 13.4	96 1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3 2.3 2.8 3 1.2	1.7 2.3 3.6 2.8 21.8 21.8 22 22 22.1 22.3 22.7 4
1 2 3 4 5 1 2 3 4 5 6 1 2 3 4 5	M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans C. elegans C. elegans C. elegans D. melanogaste D. melanogaste	21,173,335 22,731,971 68,712,046 59,012,045 21,930,527 20,345,696 19,948,493 21,276,092 23,993,704 (48,276,226 47,752,414 45,807,066 (29,221,598	SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407355 SRR10407355 SRR10407355 SRR10407358 SRR10407358	96.9 96.4 94.5 96 93.6 75.6 75.7 75.7 75.7 75.2	82.2 79.1 84.3 82.7 78.3 69.1 69.3 67.5 68.3 68.4 71	Duplicated % 14.7 17.3 10.2 13.3 15.3 6.5 6.7 7.9 8 7.4 6.8 3.2 14.5 11.7	Fragmented % 1.6 1.5 1.6 1.3 2.6 2.4 2.2 2.5 2.5 2.1 2.8 3 1.3	1.5 2.1 3.9 3.7 3.8 22 21.8 22.1 22 22.2 22.2	96.8 96.7 94.6 95.6 94.3 75.3 76.1 75.4 75.4 75.4 93.8	% 83.3 83.3 80.3 85.1 85.1 83.3 86.5 85.1 80.5 80.	% 13.5 16.4 9.5 12.6 14.3 7.2 6.7 8.3 7.5 6.6 3.9 16 11.8 7.4 7.5 1.6 11.8 7.4 7.5 7	96 1.5 1.4 2.1 1.7 2.1 2.7 2.1 2.7 2.1 2.3 2.4 2.3 2.7 2.9 1.3	1.7 1.9 3.3 2.7 3.6 22 21.8 22.3 22.2 22.5 21.9 23.1 4.9	96.7 96.5 94 95.9 75.5 76.1 75.7 75.6 74.9 94.8	9% 83.4 79.9 84.6 82.6 69.5 69.6 66.2 67.5 68.2	96 13.3 16.6 9.4 13.3 6 6.5 9.5 8.2 7.4 6.9 3	96 1.6 1.2 2.4 1.3 2.7 2.1 2.3 2.3 2.3 2.8 3 1.2	1.7 2.3 3.6 2.8 21.8 21.8 22 22 22.1 22.3 22.7 4

\Box	rinity - BUSC	CO4			50	Obp (A) 25,29	,33			50	Obp (B) 25,31,	35			50	Obp (C) 25,33,	37	
Nº.		Total pe-	SRA	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %	Complete %	Single-copy	Duplicated	Fragmented	Missing %
	M. musculus	reads 33.540.466	SRR10342165	96.7	69.7	27	7 1.8	1.5			27.8	1.7	1.4		69.5	27.1	1.7	1.7
	M. musculus		SRR10342166	97.7	63.2	34.5		1.4	97.8			0.8	1.4	97.8	63.6	34.2	0.8	1.4
	M. musculus		SRR10342167	97.6	62.9			1.2	97.8			1.2	1	97.5	63.1	34.4	1.3	1.2
	M. musculus		SRR9211836	92.3	79	13.3		3.9	92.4			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
	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
	M. musculus		SRR9211839	91.4				3.7	91.2				3.7	91.3	80.3	11	4.9	3.8
	C. elegans		SRR4181026	74.8	69.7	5.1		22.1	74.7			3.2	22.1	74.8	70.0	4.8	3.1	22.1
2	C. elegans		SRR4181032	75.1	69.8	5.3		22.5	75.2			2.4	22.4	75.2	69.6	5.6	2.4	22.4
	. elegans		SRR4181033	75.4	69.4	6.0		21.9	75.3		5.8	2.7	22.0	75.4	69.7	5.7	2.7	21.9
	. elegans		SRR4181034	74.9	68.2	6.7		22.1	74.7			3.2	22.1	74.9	68.0	6.9	3.0	22.1
	C. elegans C. elegans		SRR4181036 SRR4181037	75.0 75.4	69.4 69.9	5.6 5.5		21.8	75.2 75.2		5.9	3.0 2.5	21.8	75.1 75.2	69.0 69.9	6.1 5.3	3.1 2.5	21.8 22.3
	eiegans D. melanogaste		SRR4101037	34.6	28.6			52.3	34.4			13.4	52.2	34.2	28.1	6.1	13.5	52.3
	D. melanogaste		SRR6743335	32.6	20.0	5.6		54.6	32.6		5.5	12.5	54.9	32.8	27.5	5.3	12.3	54.9
). melanogaste		SRR6743336	26	22.1	3.9		60.9	25.9		3.8	13.4	60.7	26	21.8	4.2		60.8
	D. melanogaste		SRR6743337	29.8	24.6			60.6	29.9		5.7	9.5	60.6	29.7	24.5	5.2	9.7	60.6
5). melanogaste	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. melanogaste		SRR6743339	26.3	20.5			63.7	26.8				64.1	26.8	21.5	5.3		64.2
7	D. melanogaste		SRR6743340	33.2	27.5			55.9	33.4				56.1	33.7	27.6		10.1	56.2
). melanogaste		SRR6743341	28.9	24	4.9	11.2	59.9			4.2	10.7	59.4		24.7	4.8	10.9	59.6
9	D. melanogaste	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
			-				L											
\vdash		Total pe-	 		75b Single-copy	p (A) 25,29,3 Duplicated	Fragmented			75t Single-copy	p (B) 25,31,3 Duplicated	Fragmented			75b Single-copy	p (C) 25,33,3 Duplicated	7,45 Fragmented	
Nº.		reads	SRA	Complete %	%	%	%	Missing %	Complete %	%	%	%	Missing %	Complete %	%	%	%	Missing %
	M. musculus		SRR10067458	96.7	66.8			1.5					1.6		66.7	30.2		
	M. musculus		SRR10067459	97.2	59.9	37.3		1.3	97.3		37.4	1.4	1.3	97.1	58.7	38.4	1.4	1.5
	M. musculus		SRR10067460	98	62.7	35.3		1.1	97.6		33.6	1.2	1.2	97.8	61.7	36.1	0.9	1.3
	M. musculus		SRR10067461	94.1	52.9	41.2		2.5	94.4			3.4	2.2	94.1	52.9	41.2	3.4	2.5
	M. musculus M. musculus		SRR10067462 SRR10067463	95.5 94.1	54.3 54.3	41.2		2.2	95.7 94		41.2	2.1	2.2	95.4 94	54.8 55.6	40.6	2.3	2.3
	n. musculus C. elegans		SRR1585277	76.3	64.5			2.1	76.3			2.6	21.1	76.2	63.6	12.6	2.6	2.1
	elegans elegans		SRR1585277	76.5	64.2	12.3		20.9	76.4			2.6	21.1	76.2	63.2	13.1	2.6	21.2
	C. elegans		SRR8257107	75.3	69.4	5.9		21.9	75.2			2.7	22.1	75.2	69.6	5.6	2.7	22.1
	C. elegans		SRR8257108	75	68.9			22.2	75.1			2.7	22.2	74.9	68.4	6.5	2.8	22.3
	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. melanogaste		SRR8559044	94.7	57.8			4.4	94.5	56.3	38.2	1	4.5	94.8	57.9	36.9	0.9	4.3
2	D. melanogaste		SRR8559045	95.4	55.3	40.1		3.8	95.2		41.2	0.9	3.9	95.4	56.2	39.2	0.8	3.8
). melanogaste		SRR8559046	95.5	54.4	41.1		3.7	95.4			0.8	3.8	95.2	54.2	41	0.9	3.9
	D. melanogaste		SRR8559047	95.1	54.7	40.4		4.3	94.9			0.8	4.3	95.1	56.1	39	0.6	4.3
		102,413,880		95.1	49.3			4.1	95.5			0.9	3.6	95.4	49.4	46	0.8	3.8
6	D. melanogaste	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
\Box					100	bp (A) 25,35,4	47.61			100	⊥ bp (B) 25,37,5	5 63			100	bp (C) 25,41,5	7 67	
П		Total pe-			Single-copy	Duplicated	Fragmented			Single-copy	Duplicated	Fragmented			Single-copy	Duplicated	Fragmented	
Nº	axa M. musculus	reads	SRA SRR1017092	Complete % 97.6	39.1	58.5	1.2	Missing % 1.2	Complete % 97.9		60.9	1.4	Missing % 0.7	Complete % 98	35	63	1	Missing %
	M. musculus		SRR1017092	97.8	38.3	59.5		0.8	98.3			0.6	1.1	98.3	38.3	60	0.5	1.2
	M. musculus		SRR1017094	98.3	36.9	61.4		1.1	98.4			0.6	1	98.4	36.5	61.9	0.8	0.8
	M. musculus		SRR5171077	34.8	28.7	6.1		36.3	34.7		5.9	29.1	36.2	34.8	28.8	6	28.9	36.3
	M. musculus		SRR5171085	97.8	41.7	56.1		0.7	97.9	41.6	56.3	1.5	0.6	97.6	42.1	55.5	1.5	0.9
7	M. musculus		SRR5171095	47.9	36.5			24.2	47.8		10.8	28	24.2		36.9	10.9	28	24.2
	C. elegans		SRR2142254	72.8	63.6			23.7				3.5	23.6		63.8	8.9	3.5	23.8
	C. elegans		SRR2142255	73	65.7	7.3		23.6	73.2			3.4	23.4	73	65.5	7.5		23.6
	. elegans		SRR2015313	53.6	42	11.6		31.9	53.8			14	32.2	53.7	41.6	12.1	14.2	32.1
	C. elegans C. elegans		SRR2015311 SRR2012785	68.4 75.9	54.9 62.5			25.2 21.6	68.3 75.8			6.7 2.5	25 21.7	68.6 75.8	55.7 63.1	12.9 12.7	6.3 2.6	25.1 21.6
	elegans C. elegans		SRR2012785 SRR2012781	/5.9	02.5	13.4	2.5	21.6	/5.8	02.6	13.2	2.5	21.7	/3.8	03.1	12.7	2.6	21.6
	o. melanogaste		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
	D. melanogaste		SRR3018855	93.4	64.2	29.2		5.6	93.8	65.5	28.3	0.9	5.3	93.8	64	29.8	0.9	5.3
3	D. melanogaste	24,773,404	SRR3018862	94.7	67.9			4.6	94.8			0.7	4.5		67.4	27.4	0.7	4.5
	D. melanogaste	30,140,704	SRR3019045	94.2	65.5			4.8	94.4			0.9	4.7	94.2	64.7	29.5	0.9	4.9
5	D. melanogaste	25,828,680	SRR3019179	94.4	64.6			4.9	94.4			0.7	4.9	94.3	64.3	30	0.7	5
					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
6). melanogaste	19,049,236	SRR3019184	94.3														
6	D. melanogaste	19,049,236	SRR3019184	94.3		(4) 25 24	F1 6F				· (B) 2F 22 :-	F2 71				(C) 2F 2F		
ь	D. melanogaste		SRR3019184	94.3	150bp Single-copy	(A) 25,31,41 Duplicated	,51,65 Fragmented			150bj Single-copy	(B) 25,33,43 Duplicated	,53,71 Fragmented			150bp Single-copy	(C) 25,35,55 Duplicated	,75,85 Fragmented	
Nº -	Гаха	Total pe- reads	SRA	Complete %	Single-copy %	Duplicated %	Fragmented %	Missing %	Complete %	%	(B) 25,33,43 Duplicated %	,53,71 Fragmented %	Missing %	Complete %	Single-copy %	Duplicated %	,75,85 Fragmented %	Missing %
Nº 1	Taxa M. musculus	Total pereads	SRA 5 SRR10560364	Complete % 98.1	Single-copy % 50.5	Duplicated % 47.6	Fragmented %	0.7	97.9	50.1	47.8	% 1	1.1	98	Single-copy % 51.6	Duplicated % 46.4	Fragmented %	1
Nº 1 2	Taxa M. musculus M. musculus	Total pe- reads 21,173,335 22,731,971	SRA 5 SRR10560364 5 SRR10560365	Complete % 98.1 98.1	Single-copy % 50.5 46.2	### April 2015 Pupilicated ### April 2015 ### April	Fragmented % 1.2 0.8	0.7 1.1	97.9 98.1	% 50.1 47.6	% 47.8 50.5	% 1 0.8	1.1 1.1	98 98.1	Single-copy % 51.6 47.4	946.4 50.7	Fragmented % 1 0.8	1.1
1 2 4	Faxa M. musculus M. musculus M. musculus	Total pe- reads 21,173,335 22,731,971 68,712,046	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325	Complete % 98.1 98.1 95.5	50.5 46.2 42.3	947.6 51.9 53.2	Fragmented % 1.2 0.8	0.7 1.1 1.5	97.9 98.1 95.8	% 50.1 47.6 41.9	% 47.8 50.5 53.9	% 1 0.8 2.8	1.1 1.1 1.4	98 98.1 96.1	51.6 47.4 40	946.4 50.7 56.1	### 1 0.8 2.5	1 1.1 1.4
1 2 4 5 5	Faxa M. musculus M. musculus M. musculus M. musculus	Total pe- reads 21,173,335 22,731,971 68,712,046 59,012,049	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 9 SRR8329326	Complete % 98.1 98.1 95.5 97.2	50.5 46.2 42.3 36.9	### Puplicated #### ### #### #### #### #### #### #### #### ######	Fragmented % 1.2 0.8 2 3 1.4	0.7 1.1 1.5 1.4	97.9 98.1 95.8 97.4	50.1 47.6 41.9 39.3	47.8 50.5 53.9 58.1	0.8 2.8 1	1.1 1.1 1.4 1.6	98 98.1 96.1 97.5	\$ingle-copy % 51.6 47.4 40 39.8	Duplicated % 46.4 50.7 56.1 57.7	### 1 0.8 2.5 1.3	1 1.1 1.4 1.2
1 2 4 5 6	Faxa M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus	Total pereads 21,173,335 22,731,971 68,712,046 59,012,049 21,930,527	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 9 SRR8329326 7 SRR7079069	Complete % 98.1 98.1 95.5 97.2 96.9	50.5 46.2 42.3 36.9 47.6	90 47.6 51.9 53.2 60.3 49.3	Fragmented % 1.2 0.8 2 3 1.4 1.7	0.7 1.1 1.5 1.4 1.4	97.9 98.1 95.8 97.4 97.1	50.1 47.6 41.9 39.3 44.1	47.8 50.5 53.9 58.1	1 0.8 2.8 1 1.4	1.1 1.1 1.4 1.6 1.5	98 98.1 96.1 97.5 97.1	51.6 47.4 40 39.8 44.4	946.4 50.7 56.1 57.7 52.7	1 0.8 2.5 1.3 1.6	1 1.1 1.4 1.2 1.3
Nº 1 2 4 5 6 1	Faxa M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans	Total pereads 21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 5 SRR8329326 7 SRR7079069 5 SRR10407359	Complete % 98.1 98.1 95.5 97.2 96.9 76.6	50.5 46.2 42.3 36.9 47.6 65.8	47.6 51.9 53.2 60.3 49.3	Fragmented % 1.2 0.8 3 1.4 1.7 3 2.7	0.7 1.1 1.5 1.4 1.4 20.7	97.9 98.1 95.8 97.4 97.1 76.6	50.1 47.6 41.9 39.3 44.1 6 65.6	47.8 50.5 53.9 58.1 53.9	1 0.8 2.8 1 1.4 2.7	1.1 1.1 1.4 1.6 1.5 20.7	98.1 96.1 97.5 97.1 76.8	\$1.6 47.4 40 39.8 44.4 66.6	96.46.4 50.7 56.1 57.7 52.7 10.2	Fragmented % 1 0.8 2.5 1.3 1.6 2.6	1 1.1 1.4 1.2 1.3 20.6
1 2 4 5 6 1 1 2	M. musculus C. elegans C. elegans	Total pereads 21,173,335 22,731,971 68,712,046 59,012,046 21,930,527 20,345,696 19,948,493	SRA SRR10560364 SRR10560365 SRR8329325 SRR8329326 7 SRR7079069 SRR10407359 SRR10407358	Complete % 98.1 98.1 95.5 97.2 96.9 76.6	\$ingle-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8	47.6 51.9 53.2 60.3 49.3 10.8	Fragmented % 1.2 0.8	0.7 1.1 1.5 1.4 1.4 20.7 20.9	97.9 98.1 95.8 97.4 97.1 76.6	9 50.1 47.6 3 41.9 4 39.3 44.1 6 65.6 6 63.9	47.8 50.5 53.9 58.1 53 11	9% 1 0.8 2.8 1 1.4 2.7 2.1	1.1 1.1 1.4 1.6 1.5 20.7	98 98.1 96.1 97.5 97.1 76.8 76.9	\$1.6 47.4 40 39.8 44.4 66.6 65.2	96.46.4 50.7 56.1 57.7 52.7 10.2 11.7	Fragmented % 1 0.8 2.5 1.3 1.6 2.6 2.1	1 1.1 1.4 1.2 1.3 20.6
No 1 2 4 5 6 1 2 3	Faxa M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans	Total pe- reads 21,173,335 22,731,971 68,712,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 5 SRR8329326 7 SRR7079069 5 SRR10407359	Complete % 98.1 98.1 95.5 97.2 96.9 76.6	\$ingle-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8	90 47.6 51.9 53.2 60.3 49.3 10.8 12.2	Fragmented % 1.2	0.7 1.1 1.5 1.4 1.4 20.7	97.9 98.1 95.8 97.4 97.1 76.6 76.9	9 50.1 47.6 3 41.9 4 39.3 44.1 6 65.6 9 63.9	47.8 50.5 53.9 58.1 53 11 13 12.3	1 0.8 2.8 1 1.4 2.7	1.1 1.1 1.4 1.6 1.5 20.7	98 98.1 96.1 97.5 97.1 76.8 76.9	\$1.6 47.4 40 39.8 44.4 66.6 65.2	96.46.4 50.7 56.1 57.7 52.7 10.2	Fragmented % 1 0.8 2.5 1.3 1.6 2.6 2.1	1 1.1 1.4 1.2 1.3 20.6 21 21
No 1 2 4 5 6 1 2 3 4 4	M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans	Total pe- reads 21,173,335 22,731,971 68,712,046 59,012,046 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704	SRA \$RR10560364 \$RR10560365 \$RR8329325 \$RR8329325 \$RR7079069 \$RR10407359 \$RR10407358 \$RR10407357	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6	\$ingle-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8	Duplicated % 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1	Fragmented	0.7 1.1 1.5 1.4 1.4 20.7 20.9	97.9 98.1 95.8 97.4 97.1 76.6 76.9	9% 50.1 47.6 8 41.9 1 39.3 . 44.1 6 65.6 9 63.9 7 64.4	47.8 50.5 53.9 58.1 53 11 13 12.3	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6	1.1 1.4 1.6 1.5 20.7 21 20.7	98 98.1 96.1 97.5 97.1 76.8 76.9	\$1.6 47.4 40 39.8 44.4 66.6 65.2	Duplicated % 46.4 50.7 56.1 57.7 52.7 10.2 11.7 11.5	Fragmented % 1 0.8 2.5 1.3 1.6 2.6 2.1 2.5	1 1.1 1.4 1.2 1.3 20.6 21 21
No 1 2 4 5 6 1 2 3 4 5 5	M. musculus C. elegans C. elegans C. elegans C. elegans	Total pe- reads 21,173,335 22,731,971 68,712,046 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365	SRA SRR10560364 SRR10560365 SRR8329325 SRR8329326 SRR7079069 SRR10407359 SRR10407357 SRR10407357	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6	Single-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8 65	Duplicated % 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1	Fragmented	0.7 1.1 1.5 1.4 1.4 20.7 20.9 20.9 21.3	97.9 98.1 95.8 97.4 97.1 76.6 76.9 76.7	9% 50.1 47.6 8 41.9 1 39.3 . 44.1 6 65.6 9 63.9 7 64.4	9% 47.8 50.5 53.9 58.1 53.9 11 13 12.3	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6 2.3	1.1 1.4 1.6 1.5 20.7 21 20.7 21.3	98 98.1 96.1 97.5 97.1 76.8 76.9 76.5	Single-copy % 51.6 47.4 40 39.8 44.4 66.6 65.2 65	Duplicated % 46.4 50.7 56.1 57.7 52.7 10.2 11.7 11.5 10.3	Fragmented % 1 0.8 2.5 1.3 1.6 2.6 2.1 2.5 2.4	1 1.1 1.4 1.2 1.3 20.6 21 21 21.1
Nº 1 2 4 5 6 1 2 3 4 5 6 6	M. musculus M. musculus M. musculus M. musculus M. musculus M. musculus C. elegans C. elegans C. elegans C. elegans C. elegans	Total pe- reads 21,173,332 22,731,971 68,712,046 59,012,045 21,930,527 20,345,696 21,276,093 23,993,704 25,110,365 22,967,016 8,276,228	SRA 5RR10560364 5RR10560365 5RR8329325 5RR8329326 5RR7079069 5RR10407359 5RR10407357 5RR10407355 5RR10407355 5RR10407355	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6 76.3 76.4	50.5 50.5 46.2 42.3 36.9 47.6 65.8 64.8 65 66.2 65.8	96 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1 10.6 6.1	Fragmented % 1.2 0.8 1.3 1.4 1.7 2.7 2.1 2.5 2.4 2.2 2.6	0.7 1.1 1.5 1.4 20.7 20.9 20.9 21.3 21.4	97.9 98.1 95.8 97.4 97.1 76.6 76.7 76.7 76.4	% 50.1 47.6 41.9 41.9 41.9 41.9 41.1 41.	9% 47.8 50.5 53.9 58.1 53 11 13 12.3 9.2 9.1	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6 2.3 2.3	1.1 1.4 1.6 1.5 20.7 21 20.7 21.3 21.2	98.1 96.1 97.5 97.1 76.8 76.9 76.5 76.3	Single-copy % 51.6 47.4 40 39.8 44.4 66.6 65.2 65 66.2	Duplicated % 46.4 50.7 56.1 57.7 52.7 10.2 11.7 11.5 10.3	1 0.8 2.5 1.3 1.6 2.6 2.1 2.5 2.4 2.2	1 1.1 1.4 1.2 1.3 20.6 21 21 21.1 21.5
No 1 2 4 4 5 6 6 1 1 2 1 3 1 4 1 5 6 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M. musculus M. musculus M. musculus M. musculus M. musculus L. elegans	Total pereads 21,173,335 22,731,971 68,712,046 59,012,045 21,930,522 20,345,696 19,948,493 21,276,093 23,993,704 25,110,365 22,967,010 28,276,252,414 47,552,414	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 5 SRR329326 5 SRR7079069 5 SRR10407359 5 SRR10407355 5 SRR10407355 5 SRR10407354 5 SRR10407355 5 SRR10407355	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6 76.3 76.4	Single-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8 65 66.2 65.8	Duplicated % 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1 10.6 6.1	Fragmented % 1.2 0.8 1.3 1.4 1.7 2.7 2.1 2.5 2.4 2.2 2.6 1.2 2.6 1.2 1.2 1.3 1.2 1.3 1.3 1.4 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	0.7 1.1 1.5 1.4 20.7 20.9 20.9 21.3 21.4	97.9 98.1 95.8 97.4 97.1 76.6 76.7 76.4 76.5	% 50.1 47.6 39.3 44.1 65.6 66.4 67.2 67.4 67.2 68.9 60.4 60.	9% 47.8 50.5 53.9 58.1 53 11 13 12.3 9.2 9.1 6.3 33.8	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6 2.3 2.3 2.3	1.1 1.1 1.4 1.6 1.5 20.7 21 20.7 21.3 21.2	98.1 96.1 97.5 97.1 76.8 76.9 76.5 76.3	Single-copy % 51.6 47.4 40 39.8 44.4 66.6 65.2 65 66.2 66	Duplicated % 46.4 50.7 56.1 57.7 52.7 10.2 11.7 11.5 10.3 10.3 3.4 6.8 33.4	Fragmented %6 1 0.8 2.5 1.3 1.6 2.6 2.1 2.5 2.4 2.2 2.6 1.2 1.6 1.2	1 1.1 1.4 1.2 1.3 20.6 21 21 21.1 21.5
No. 1	Faxa M. musculus C. elegans C. melanogast D. melanogast D. melanogast	Total pereads 21,173,335 22,731,971 68,712,046 21,930,527 20,345,696 21,926,693 21,276,093 22,991,046 25,110,366 22,967,016 48,8276,228 47,552,414 45,807,064	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 5 SRR329326 5 SRR7079069 5 SRR10407358 5 SRR10407355 5 SRR10407355 5 SRR10407355 5 SRR10407357 5 SRR10407357 5 SRR10407357 5 SRR10407357 5 SRR10407358	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6 76.3 76.4 93.6	Single-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8 65 66.2 65.8 69.1 60.6	Duplicated % 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1 33.8	Fragmented % 1.2 0.8 1.3 1.4 1.7 2.7 2.2.1 2.5 2.4 2.2 2.6 3.1.2 3.1 3.1 4.2 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	0.7 1.1 1.5 1.4 1.4 20.7 20.9 20.9 21.3 21.4 22.2	97.9 98.1 95.8 97.4 97.1 76.6 76.5 76.7 76.4 76.5 94.2	96 50.1 47.6 41.9 43.3 44.1 6 65.6 6 63.9 64.4 6 67.2 6 68.9 9 60.4	9% 47.8 50.5 53.9 58.1 13 12.3 9.2 9.1 6.3 33.8 29.7	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6 2.3 2.3 2.6 1.3 1.2	1.1 1.4 1.6 1.5 20.7 21 20.7 21.3 21.2	98.1 96.1 97.5 97.1 76.8 76.9 76.5 76.3 77.4 94.3	Single-copy 96 51.6 47.4 40 39.8 44.4 66.6 65.2 65 66.2 66 68.6 60.9 63.3	Duplicated % 46.4 50.7 56.1. 57.7 52.7 10.2 11.7 11.5 10.3 6.8 33.4	Fragmented %6 1 0.88 2.5 1.3 1.6 2.6 2.1 2.5 2.4 2.2 2.6 1.2 1.2	1 1.1 1.4 1.2 1.3 20.6 21 21 21.1 21.5 22 4.5
No. 1 2 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 1 1 2 2 3 3 3 4 4 5 6 6 6 1 1 2 2 3 3 3 4 4 5 6 6 6 1 1 2 2 3 3 3 4 4 5 6 6 6 1 1 2 2 3 3 3 4 4 5 6 6 6 6 1 1 2 2 3 3 3 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	M. musculus M. musculus M. musculus M. musculus M. musculus L. elegans	Total pereads 21,173,335 21,73,397 68,712,046 59,012,046 59,012,049 21,930,527 20,345,696 19,948,493 21,276,093 23,993,704 25,110,366 22,967,016 48,676,228 47,5752,414 45,807,064	SRA 5 SRR10560364 5 SRR10560365 5 SRR8329325 5 SRR329326 5 SRR7079069 5 SRR10407359 5 SRR10407355 5 SRR10407355 5 SRR10407354 5 SRR10407355 5 SRR10407355	Complete % 98.1 98.1 95.5 97.2 96.9 76.6 77 76.6 76.3 76.4	Single-copy % 50.5 46.2 42.3 36.9 47.6 65.8 64.8 65 66.2 65.8	Duplicated % 47.6 51.9 53.2 60.3 49.3 10.8 12.2 11.6 10.1 33.8	Fragmented (%) 1.2 0.8 3 1.4 1.7 2.7 2.1 2.5 2.4 2.2 2.6 3.1.2 4.7 4.7 4.7 4.7 4.7 4.7 5.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6	0.7 1.1 1.5 1.4 20.7 20.9 20.9 21.3 21.4	97.9 98.1 95.8 97.4 97.1 76.6 76.7 76.4 76.5	90 50.1 47.6 8 41.9 1 39.3 44.1 6 65.6 63.9 7 64.4 6 67.2 6 67.4 2 68.9 2 60.4 6 63.7	9% 47.8 50.5 53.9 58.1 13 12.3 9.2 9.1 6.3 33.8 29.7	9% 1 0.8 2.8 1 1.4 2.7 2.1 2.6 2.3 2.3 2.3	1.1 1.1 1.4 1.6 1.5 20.7 21 20.7 21.3 21.2	98.1 96.1 97.5 97.1 76.8 76.9 76.5 76.3 77.4 94.3	Single-copy % 51.6 47.4 40 39.8 44.4 66.6 65.2 65 66.2 66	Duplicated % 46.4 50.7 56.1 57.7 52.7 10.2 11.7 11.5 10.3 10.3 3.4 6.8 33.4	Fragmented %6 1 0.8 2.5 1.3 1.6 2.6 2.1 2.5 2.4 2.2 2.6 1.2 1.6 1.2	1 1.1 1.4 1.2 1.3 20.6 21 21 21.1 21.5

0bp							
All data by buse							
Shapiro-Wilk n	ormality 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 kme	ers						
Shapiro-Wilk n		(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 n	ormality 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
). melanogaster							
Shapiro-Wilk n	ormality test	(p > 0.05)					
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p	Significant
Complete					-	< 0.05)	
Complete Single copy	4.53E-03	2.83E-03	3.58E-03	no	-	0.9992701	no
Single-copy Duplicated	0.2013 5.53E-02	1.23E-01 4.67E-02	1.72E-01 3.22E-02	yes	_	8.62E-01	no
Fragmented	0.003331	1.31E-02	8.40E-03	no	_	0.8590528	no
Fragmented Missing	4.31E-03	3.00E-03	8.40E-03 4.47E-03	no	-	0.8590528	no
111331119	1.312 03	3.002 03	1172 03			0.55 1500 1	110
<i>I. musculus</i> Shapiro-Wilk n	ormality test	(n > 0.05)					
Juapu O-Wilk III	ormancy test	(p > 0.03)				Kruskal-Wallis	
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	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

5bp							
II data by bus	СО						
Shapiro-Wilk n	ormality 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 kme	ers						
Shapiro-Wilk n	ormality test	(p > 0.05)					
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significan
Complete	3.13E-04	3.58E-04	3.95E-04	no	-	0.9472942	no
•	0.3689	2.08E-01	3.95E-04 3.16E-01		-	0.34/2342	
Single-copy Duplicated	0.3689 2.54E-01	2.08E-01 2.91E-01	1.21E-01	yes		-	no
Duplicated	2.54E-01 2.54E-01	5.70E-01	1.21E-01 9.43E-02	yes		-	no
Fragmented Missing	1.26E-04	1.18E-04	1.05E-04	yes	_	0.9927532	no
Missing	1.20L-04	1.16L-04	1.03L-04	IIO	-	0.9927332	110
C. elegans							
Shapiro-Wilk n	ormality test	(p > 0.05)					
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significan
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
). melanogaster							
Shapiro-Wilk n	ormality test	(p > 0.05)				Kruskal-Wallis	
Shapiro-Wilk n			KmarC	Normally	ANOVA	Kruskal-Wallis test (p	Significan
	KmerA	KmerB	KmerC	distributed	ANOVA	test (p < 0.05)	_
Complete	KmerA 3.31E-01	KmerB 1.66E-01	1.71E-01	distributed yes		test (p < 0.05)	no
Complete Single-copy	KmerA 3.31E-01 0.008752	KmerB 1.66E-01 1.15E-02	1.71E-01 5.24E-03	yes no	-	test (p < 0.05)	no no
Complete Single-copy Duplicated	KmerA 3.31E-01 0.008752 6.48E-03	KmerB 1.66E-01 1.15E-02 9.53E-03	1.71E-01 5.24E-03 5.17E-03	yes no no	-	test (p < 0.05) - 9.06E-01 8.19E-01	no no no
Complete Single-copy Duplicated Fragmented	KmerA 3.31E-01 0.008752 6.48E-03 0.03849	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01	1.71E-01 5.24E-03 5.17E-03 4.93E-02	yes no no no	-	+ (p < 0.05) - 9.06E-01 8.19E-01 0.5969728	no no no
Complete Single-copy Duplicated	KmerA 3.31E-01 0.008752 6.48E-03	KmerB 1.66E-01 1.15E-02 9.53E-03	1.71E-01 5.24E-03 5.17E-03	yes no no	-	test (p < 0.05) - 9.06E-01 8.19E-01	no no no
Complete Single-copy Duplicated Fragmented Missing	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01	1.71E-01 5.24E-03 5.17E-03 4.93E-02	yes no no no	-	+ (p < 0.05) - 9.06E-01 8.19E-01 0.5969728	no no no
Complete Single-copy Duplicated Fragmented	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01	1.71E-01 5.24E-03 5.17E-03 4.93E-02	yes no no no	-	test (p < 0.05) - 9.06E-01 8.19E-01 0.5969728 - Kruskal-Wallistest (p	no no no
Complete Single-copy Duplicated Fragmented Missing M. musculus Shapiro-Wilk n	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01	1.71E-01 5.24E-03 5.17E-03 4.93E-02 7.37E-02	yes no no no yes Normally distributed	-	test (p < 0.05) - 9.06E-01 8.19E-01 0.5969728 - Kruskal-Wallis	no no no no no
Complete Single-copy Duplicated Fragmented Missing 1. musculus Shapiro-Wilk n	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01 cormality test KmerA 2.64E-02	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01 (p > 0.05) KmerB 4.90E-02	1.71E-01 5.24E-03 5.17E-03 4.93E-02 7.37E-02 KmerC 4.46E-02	yes no no yes Normally distributed	ANOVA	test (p < 0.05) - 9.06E-01 8.19E-01 0.5969728 - Kruskal-Wallistest (p < 0.05) 0.9843138	no no no no no no no
Complete Single-copy Duplicated Fragmented Missing M. musculus Shapiro-Wilk n Complete Single-copy	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01 cormality test KmerA 2.64E-02 0.008143	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01 (p > 0.05) KmerB 4.90E-02 8.00E-03	1.71E-01 5.24E-03 5.17E-03 4.93E-02 7.37E-02 KmerC 4.46E-02 6.67E-03	yes no no no yes Normally distributed		test (p < 0.05) - 9.06E-01 8.19E-01 0.5969728 - Kruskal-Wallistest (p < 0.05) 0.9843138 9.64E-01	no no no no no no no no no
Complete Single-copy Duplicated Fragmented Missing 1. musculus Shapiro-Wilk n	KmerA 3.31E-01 0.008752 6.48E-03 0.03849 1.71E-01 cormality test KmerA 2.64E-02	KmerB 1.66E-01 1.15E-02 9.53E-03 6.10E-01 1.29E-01 (p > 0.05) KmerB 4.90E-02	1.71E-01 5.24E-03 5.17E-03 4.93E-02 7.37E-02 KmerC 4.46E-02	yes no no yes Normally distributed	ANOVA	test (p < 0.05) - 9.06E-01 8.19E-01 0.5969728 - Kruskal-Wallistest (p < 0.05) 0.9843138	no no no no no no no no

00bp							
All data by bus Shapiro-Wilk n		(n > 0.05)					
зпари о- w пк п	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 kme	ers						
Shapiro-Wilk n	ormality test	(p > 0.05)					
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significan
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	2.79E-04 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	<u>-</u>	0.8619683	no
111331119	1.032 03	1.102 03	3.072 03	110		0.0013003	110
C. elegans							
Shapiro-Wilk n	ormality test	(p > 0.05)					
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significan
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
). melanogaster							
Shapiro-Wilk n	ormality test	(p > 0.05)				Kruskal-Wallis	
	KmerA	KmerB	KmerC	Normally distributed	ANOVA	test (p < 0.05)	Significan
Complete	6.43E-01	2.64E-01	6.03E-01	yes		- 0.05)	no
Single-copy	0.00425	9.98E-03	9.18E-03	no	_	9.91E-01	no
Duplicated	6.16E-03	9.98E-03 1.21E-02	9.18E-03 9.19E-03	no	-	9.91E-01	no
Fragmented	0.102-03	9.68E-01	8.77E-01	yes		9.79L-01 -	no
rraginenteu	2.00E-01	3.87E-01	1.46E-01	yes		-	no
Missing	2.002 01	5.07 2 02	11.102.01	700			
Missing							
1. musculus	ormality test	(p > 0.05)					
Missing II. musculus Shapiro-Wilk n	ormality test KmerA	(p > 0.05)	KmerC	Normally distributed	ANOVA	Kruskal-Wallis test (p < 0.05)	Significan
1. musculus			KmerC 4.94E-04		ANOVA	test (p	Significan
1. musculus Shapiro-Wilk n	KmerA	KmerB		distributed		test (p < 0.05)	_
f. musculus Shapiro-Wilk n Complete	KmerA 1.62E-04	KmerB 1.84E-04	4.94E-04	distributed	-	test (p < 0.05) 0.9391398	no
f. musculus Shapiro-Wilk n Complete Single-copy	KmerA 1.62E-04 0.006094	KmerB 1.84E-04 8.98E-03	4.94E-04 6.52E-03	no no	-	test (p < 0.05) 0.9391398 8.80E-01	no no

50bp All data by buse	CO						
Shapiro-Wilk n		(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 kme	ers						
Shapiro-Wilk n		(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 n	ormality 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 n	ormality 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 n	_			Normally		skal-Wallis test	
	KmerA	KmerB	KmerC	distributed	ANOVA	(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



Category	Sample	Program	Score	Reads	Length	ID
Complete	ERR3026433_Pinnigorgia_flava	Transpi	96.3	30,545,400	50	Α
Complete	ERR3026434_Sinularia_cruciata	Transpi	91.6	22,160,908	50	Α
Complete	ERR3026435_Tubipora_musica	Transpi	95.3	23,006,724	50	Α
Complete	ERR3040053_Heliopora_coerulea	Transpi	94.6	29,000,821	50	Α
Complete	SRR8280777_Godzilliognomus_frondosus	Transpi	87.5	14,086,834	75	В
Complete	SRR8745910_Galeodes_sp	Transpi	84.3	6,356,774	75	В
Complete	SRR8745911_Peripatoides_novaezealandiae_onyo	Transpi	84.9	5,768,550	75	В
Complete	ERR1000783_Paracentrotus_lividus	Transpi	81.7	6,803,316	75	В
Complete	SRR10744002_Paracentrotus_lividus	Transpi	94.3	13,583,857	75	В
Complete	SRR1232685_Nephtys_caeca	Transpi	29.6	1,576,665	75	В
Complete	SRR1271607_Gnathostomula_paradoxa	Transpi	56	5,954,962	75	В
Complete	SRR1271706_Macrodasys_sp	Transpi	74.7	3,204,609	75	В
Complete	SRR1273732_Lepidodermella_squamata	Transpi	54.4	4,370,938	75	В
Complete	SRR1273789_Cephalothrix_linearis	Transpi	82.6	4,869,244	75	В
Complete	SRR5569439_Acropora_palmata	Transpi	69.6	10,476,071	75	В
Complete	SRR8601367_Acropora_pulchra	Transpi	92.4	14,037,157	75	В
Complete	SRR1041944_Ephydatia_muelleri	Transpi	92	11,425,188	100	С
Complete	SRR1042012_Oscarella_pearsei	Transpi	92.6	11,306,242	100	С
Complete	SRR1168575_Spongilla_lacustris	Transpi	85	5,136,881	100	С
Complete	SRR1711043_Mycale_phylophylla_adult	Transpi	77.9	11,408,543	100	С
Complete	SRR1793376_Haliclona_tubifera	Transpi	93.5	16,356,602	100	С
Complete	SRR504690_Sycon_coactum	Transpi	83.8	9,098,097	100	С
Complete	SRR1145776 Peripatopsis capensis	Transpi	62.4	11,638,180	100	С
Complete	SRR1505119_Monodonta_labio	Transpi	85.7	10,388,770	100	С
Complete	SRR1560310_Lyonsia_floridana	Transpi	79.6	9,919,645	100	С
Complete	SRR1560359 Mercenaria campechiensis	Transpi	22.9	11,935,267	100	С
Complete	SRR1560432_Neotrigonia_margaritacea	Transpi	62.1	11,215,767	100	С
Complete	SRR1560458_Cardites_antiquatus	Transpi	49	11,916,756		С
Complete	SRR1561723 Sphaerium nucleus	Transpi	36	18,539,173	100	С
Complete	SRR1611556_Hemithiris_psittacea	Transpi	92.8	9,221,875	100	С
Complete	SRR1611560_Malacobdella_grossa	Transpi	94	8,307,739	100	С
Complete	SRR1611565_Phoronis_psammophila	Transpi	94.1	12,949,999	100	С
Complete	SRR1796434_Catenula_lemnae	Transpi	53.5	3,028,636	100	С
Complete	SRR3097584_Florometra	Transpi	97.8	32,710,859	100	С
Complete	SRR3105702 Childia submaculatum	Transpi	81.8	6,089,955	100	С
Complete	SRR331123_Ennucula_tenuis	Transpi	95.2	14,420,942	100	С
Complete	SRR7655554_Ircinia_fasciculata	Transpi	74.9	13,420,109	100	С
Complete	SRR7754744_Krohnitta_subtilis	Transpi	90	15,954,007	100	С
Complete	SRR10527303_Octolasmis_warwickii	Transpi	93.4	15,813,391	150	D
Complete	SRR3350463_Dimya_lima	Transpi	52.1	5,426,850		
Complete	SRR3404576_Brachionus_plicatilis	Transpi	94.3	7,403,847	150	
Complete	SRR4113507_Calanus_finmarchicus	Transpi	77.2	10,633,606	150	
Complete	SRR4294206_Millepora_alcicornis	Transpi	96.9	24,645,545	150	
Complete	SRR504694_Corticium_candelabrum	Transpi	91.5	18,897,095	150	
Complete	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	83.1	5,471,351	150	
Complete	SRR5626553_Nautilus_pompilius	Transpi	63.7	16,461,197		
Complete	SRR5873556_Neocalanus_Flemingeri	Transpi	89.1	4,112,626	150	
Complete	SRR8393254_Apostichopus_japonicus	Transpi	92	8,289,770	150	
Complete	SRR8491966_Porites_pukoensis	Transpi	99.4	16,448,725	150	
Single-Copy	ERR3026433_Pinnigorgia_flava	Transpi	84.7	30,545,400		

Single-Copy	ERR3026434_Sinularia_cruciata	Transpi	81.9	22,160,908	50	Α
Single-Copy	ERR3026435_Tubipora_musica	Transpi	85.6	23,006,724	50	Α
Single-Copy	ERR3040053_Heliopora_coerulea	Transpi	86	29,000,821	50	Α
Single-Copy	SRR8280777_Godzilliognomus_frondosus	Transpi	77.7	14,086,834	75	В
Single-Copy	SRR8745910_Galeodes_sp	Transpi	76.9	6,356,774	75	В
Single-Copy	SRR8745911_Peripatoides_novaezealandiae_onyo	Transpi	80.3	5,768,550	75	В
Single-Copy	ERR1000783_Paracentrotus_lividus	Transpi	74.1	6,803,316	75	В
Single-Copy	SRR10744002_Paracentrotus_lividus	Transpi	81.6	13,583,857	75	В
Single-Copy	SRR1232685_Nephtys_caeca	Transpi	29	1,576,665	75	В
Single-Copy	SRR1271607_Gnathostomula_paradoxa	Transpi	35.8	5,954,962	75	В
Single-Copy	SRR1271706_Macrodasys_sp	Transpi	64.4	3,204,609	75	В
Single-Copy	SRR1273732_Lepidodermella_squamata	Transpi	47.4	4,370,938	75	В
Single-Copy	SRR1273789_Cephalothrix_linearis	Transpi	80.2	4,869,244	75	В
Single-Copy	SRR5569439_Acropora_palmata	Transpi	60.6	10,476,071	75	В
ingle-Copy	SRR8601367_Acropora_pulchra	Transpi	80	14,037,157	75	В
Single-Copy	SRR1041944_Ephydatia_muelleri	Transpi	70.1	11,425,188	100	С
ingle-Copy	SRR1042012_Oscarella_pearsei	Transpi	72.9	11,306,242	100	С
Single-Copy	SRR1168575_Spongilla_lacustris	Transpi	64.1	5,136,881	100	
Single-Copy	SRR1711043_Mycale_phylophylla_adult	Transpi	72.9	11,408,543	100	
Single-Copy	SRR1793376 Haliclona tubifera	Transpi	69.8	16,356,602	100	С
Single-Copy	SRR504690 Sycon coactum	Transpi	65.8	9,098,097	100	
Single-Copy	SRR1145776 Peripatopsis capensis	Transpi	59.6	11,638,180	100	
ingle-Copy	SRR1505119 Monodonta labio	Transpi	80.2	10,388,770	100	
ingle-Copy	SRR1560310 Lyonsia floridana	Transpi	73.1	9,919,645	100	
ingle-Copy	SRR1560359 Mercenaria campechiensis	Transpi	19.3	11,935,267	100	С
ingle-Copy	SRR1560432_Neotrigonia_margaritacea	Transpi	59.4	11,215,767	100	
ingle-Copy	SRR1560458_Cardites_antiquatus	Transpi	46.6	11,916,756	100	
ingle-Copy	SRR1561723_Sphaerium_nucleus	Transpi	27.1	18,539,173	100	
Single-Copy	SRR1611556_Hemithiris_psittacea	Transpi	82.5	9,221,875	100	С
Single-Copy	SRR1611560 Malacobdella grossa	Transpi	83	8,307,739	100	
Single-Copy	SRR1611565_Phoronis_psammophila	Transpi	77.8	12,949,999	100	
Single-Copy	SRR1796434 Catenula lemnae	Transpi	48.9	3,028,636	100	
Single-Copy	SRR3097584_Florometra	Transpi	87.3	32,710,859	100	
ingle-Copy	SRR3105702 Childia submaculatum	Transpi	77.9	6,089,955	100	
ingle-Copy	SRR331123_Ennucula_tenuis	Transpi	85.3	14,420,942	100	
Single-Copy	SRR7655554 Ircinia fasciculata	Transpi	60.3	13,420,109	100	
Single-Copy	SRR7754744_Krohnitta_subtilis	Transpi	60.7	15,954,007	100	
Single-Copy	SRR10527303 Octolasmis warwickii	Transpi	64.4	15,813,391	150	
Single-Copy	SRR3350463 Dimya lima	Transpi	50.4	5,426,850	150	
Single-Copy	SRR3404576_Brachionus_plicatilis	Transpi	84.9	7,403,847	150	
Single-Copy	SRR4113507_Calanus_finmarchicus	Transpi	62.1	10,633,606	150	
ingle-Copy	SRR4294206_Millepora_alcicornis	Transpi	83.6	24,645,545	150	
ingle-Copy	SRR504694_Corticium_candelabrum	Transpi	75.3	18,897,095	150	
ingle-Copy	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	74.2	5,471,351	150	
ingle-Copy	SRR5626553_Nautilus_pompilius	Transpi	59.5	16,461,197	150	
Single-Copy	SRR5873556_Neocalanus_Flemingeri	Transpi	80.2	4,112,626	150	
Single-Copy	SRR8393254_Apostichopus_japonicus	Transpi	67.4	8,289,770	150	
Single-Copy	SRR8491966_Porites_pukoensis	Transpi	38.2	16,448,725	150	
Ouplicated	ERR3026433_Pinnigorgia_flava	Transpi	11.6	30,545,400	50	
Duplicated			9.7	22,160,908	50	
Duplicated	ERR3026434_Sinularia_cruciata ERR3026435_Tubipora_musica	Transpi Transpi	9.7	23,006,724	50	

Duplicated	ERR3040053_Heliopora_coerulea	Transpi	8.6	29,000,821	50	Α
Duplicated	SRR8280777_Godzilliognomus_frondosus	Transpi	9.8	14,086,834	75	В
Duplicated	SRR8745910_Galeodes_sp	Transpi	7.4	6,356,774	75	В
Duplicated	SRR8745911_Peripatoides_novaezealandiae_onyo	Transpi	4.6	5,768,550	75	В
Duplicated	ERR1000783_Paracentrotus_lividus	Transpi	7.6	6,803,316	75	В
Duplicated	SRR10744002_Paracentrotus_lividus	Transpi	12.7	13,583,857	75	В
Duplicated	SRR1232685 Nephtys caeca	Transpi	0.6	1,576,665	75	В
Duplicated	SRR1271607 Gnathostomula paradoxa	Transpi	20.2	5,954,962	75	В
Duplicated	SRR1271706 Macrodasys sp	Transpi	10.3	3,204,609	75	В
Duplicated	SRR1273732 Lepidodermella squamata	Transpi	7	4,370,938	75	
 Duplicated	SRR1273789_Cephalothrix_linearis	Transpi	2.4	4,869,244	75	В
 Duplicated	SRR5569439_Acropora_palmata	Transpi	9	10,476,071	75	
Duplicated	SRR8601367 Acropora pulchra	Transpi	12.4	14,037,157	75	В
 Duplicated	SRR1041944_Ephydatia_muelleri	Transpi	21.9	11,425,188	100	
Duplicated	SRR1042012 Oscarella pearsei	Transpi	19.7	11,306,242	100	
Duplicated	SRR1168575 Spongilla lacustris	Transpi	20.9	5,136,881	100	
Duplicated	SRR1711043_Mycale_phylophylla_adult	Transpi	5	11,408,543	100	
Duplicated	SRR1793376 Haliclona tubifera	Transpi	23.7	16,356,602	100	
Duplicated	SRR504690 Sycon coactum	Transpi	18	9,098,097	100	
Duplicated	SRR1145776 Peripatopsis capensis	Transpi	2.8	11,638,180	100	
Duplicated	SRR1505119 Monodonta labio	Transpi	5.5	10,388,770	100	
Duplicated	SRR1560310_Lyonsia_floridana	Transpi	6.5	9,919,645	100	
Duplicated	SRR1560359 Mercenaria campechiensis	Transpi	3.6	11,935,267	100	
Duplicated	SRR1560432 Neotrigonia margaritacea	Transpi	2.7	11,215,767	100	
Duplicated	SRR1560458 Cardites antiquatus	Transpi	2.4	11,916,756	100	
Duplicated	SRR1561723_Sphaerium_nucleus	Transpi	8.9	18,539,173	100	
Duplicated	SRR1611556 Hemithiris psittacea	Transpi	10.3	9,221,875	100	
Duplicated	SRR1611560 Malacobdella grossa	Transpi	11	8,307,739	100	
Duplicated	SRR1611565 Phoronis psammophila	Transpi	16.3	12,949,999	100	
Duplicated	SRR1796434 Catenula lemnae	Transpi	4.6	3,028,636	100	
Duplicated	SRR3097584 Florometra	Transpi	10.5	32,710,859	100	
Duplicated	SRR3105702 Childia submaculatum	Transpi	3.9	6,089,955	100	
Duplicated	SRR331123_Ennucula_tenuis	Transpi	9.9	14,420,942	100	
Duplicated	SRR765554 Ircinia fasciculata	Transpi	14.6	13,420,109	100	
Duplicated	SRR7754744_Krohnitta_subtilis	Transpi	29.3	15,954,007	100	
Ouplicated Ouplicated	SRR10527303_Octolasmis_warwickii SRR3350463_Dimya_lima	Transpi	1.7	15,813,391 5,426,850	150 150	
Duplicated	SRR3404576_Brachionus_plicatilis	Transpi Transpi	9.4	7,403,847	150	
	SRR4113507_Calanus_finmarchicus				150	
Duplicated	SRR4294206 Millepora alcicornis	Transpi	15.1	10,633,606	150	
Duplicated		Transpi	13.3 16.2	24,645,545	150	
Duplicated	SRR504694_Corticium_candelabrum	Transpi		18,897,095		
Duplicated	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	8.9	5,471,351	150	
Duplicated	SRR5626553_Nautilus_pompilius	Transpi	4.2	16,461,197	150	
Duplicated	SRR5873556_Neocalanus_Flemingeri	Transpi	8.9	4,112,626	150	
Duplicated	SRR8393254_Apostichopus_japonicus	Transpi	24.6	8,289,770	150	
Duplicated	SRR8491966_Porites_pukoensis	Transpi	61.2	16,448,725	150	
ragmented	ERR3026433_Pinnigorgia_flava	Transpi	1.7	30,545,400	50	
ragmented	ERR3026434_Sinularia_cruciata	Transpi	5.3	22,160,908	50	
-ragmented	ERR3026435_Tubipora_musica	Transpi	2.2	23,006,724	50	
Fragmented	ERR3040053_Heliopora_coerulea	Transpi	3.8	29,000,821	50	Α

Fragmented	SRR8745910_Galeodes_sp	Transpi	11.3	6,356,774	75	В
Fragmented	SRR8745911_Peripatoides_novaezealandiae_onyo	Transpi	6.4	5,768,550	75	В
Fragmented	ERR1000783 Paracentrotus lividus	Transpi	9.8	6,803,316	75	В
Fragmented	SRR10744002_Paracentrotus_lividus	Transpi	3.2	13,583,857	75	В
Fragmented	SRR1232685_Nephtys_caeca	Transpi	17.3	1,576,665	75	В
Fragmented	SRR1271607_Gnathostomula_paradoxa	Transpi	22	5,954,962	75	В
Fragmented	SRR1271706_Macrodasys_sp	Transpi	12.2	3,204,609	75	В
Fragmented	SRR1273732_Lepidodermella_squamata	Transpi	20.7	4,370,938	75	В
Fragmented	SRR1273789 Cephalothrix linearis	Transpi	10.8	4,869,244	75	В
ragmented	SRR5569439 Acropora palmata	Transpi	17.9	10,476,071	75	В
ragmented	SRR8601367 Acropora pulchra	Transpi	5.5	14,037,157	75	В
- -ragmented	SRR1041944_Ephydatia_muelleri	Transpi	2.7	11,425,188	100	С
ragmented	SRR1042012 Oscarella pearsei	Transpi	2.1	11,306,242	100	С
ragmented	SRR1168575 Spongilla lacustris	Transpi	9	5,136,881	100	С
ragmented	SRR1711043_Mycale_phylophylla_adult	Transpi	11	11,408,543	100	С
ragmented	SRR1793376_Haliclona_tubifera	Transpi	1.4	16,356,602	100	
ragmented	SRR504690_Sycon_coactum	Transpi	7	9,098,097	100	
ragmented	SRR1145776_Peripatopsis_capensis	Transpi	22.2	11,638,180	100	
ragmented	SRR1505119 Monodonta labio	Transpi	8.9	10,388,770	100	
ragmented	SRR1560310 Lyonsia floridana	Transpi	14.5	9,919,645	100	
ragmented	SRR1560359 Mercenaria campechiensis	Transpi	18	11,935,267	100	С
ragmented	SRR1560432 Neotrigonia margaritacea	Transpi	19.8	11,215,767	100	
ragmented	SRR1560458 Cardites antiquatus	Transpi	23.1	11,916,756	100	
ragmented	SRR1561723 Sphaerium nucleus	Transpi	32.1	18,539,173	100	
ragmented	SRR1611556 Hemithiris psittacea	Transpi	3.1	9,221,875	100	
ragmented	SRR1611560 Malacobdella grossa	Transpi	2.4	8,307,739	100	
ragmented	SRR1611565 Phoronis psammophila	Transpi	4.5	12,949,999	100	
ragmented	SRR1796434 Catenula lemnae	Transpi	16.3	3,028,636	100	С
ragmented	SRR3097584_Florometra	Transpi	0.6	32,710,859	100	С
ragmented	SRR3105702_Childia_submaculatum	Transpi	3.4	6,089,955	100	С
ragmented	SRR331123 Ennucula tenuis	Transpi	3.2	14,420,942	100	
ragmented	SRR7655554 Ircinia fasciculata	Transpi	15	13,420,109	100	
ragmented	SRR7754744_Krohnitta_subtilis	Transpi	6.2	15,954,007	100	
ragmented	SRR10527303 Octolasmis warwickii	Transpi	2.7	15,813,391	150	
ragmented	SRR3350463_Dimya_lima	Transpi	22.5	5,426,850	150	
ragmented	SRR3404576_Brachionus_plicatilis	Transpi	0.8	7,403,847	150	
ragmented	SRR4113507_Calanus_finmarchicus	Transpi	13.3	10,633,606	150	
ragmented	SRR4294206_Millepora_alcicornis	Transpi	1	24,645,545	150	
ragmented	SRR504694_Corticium_candelabrum	Transpi	4.6	18,897,095	150	
ragmented	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	11.1	5,471,351	150	
ragmented	SRR5626553_Nautilus_pompilius	Transpi	25.3	16,461,197	150	
ragmented	SRR5873556_Neocalanus_Flemingeri	Transpi	6	4,112,626	150	
ragmented	SRR8393254 Apostichopus japonicus	Transpi	6	8,289,770	150	
ragmented	SRR8491966_Porites_pukoensis	Transpi	0.5	16,448,725	150	
Aissing	ERR3026433 Pinnigorgia flava	Transpi	2	30,545,400	50	
Viissing	ERR3026434 Sinularia cruciata	Transpi	3.1	22,160,908	50	
Viissing	ERR3026435 Tubipora musica	Transpi	2.5	23,006,724	50	
Missing	ERR3040053_Heliopora_coerulea	Transpi	1.6	29,000,724	50	
Missing	SRR8280777_Godzilliognomus_frondosus	Transpi	7.1	14,086,834	75	
Viissing	SRR8745910 Galeodes sp	Transpi	4.4	6,356,774	75	
Viissing	SRR8745911_Peripatoides_novaezealandiae_onyo	·	8.7	5,768,550	75	

NAT	EDD4000703 Daves at all 2 11 11	-	0.5	6 002 246	75	_
Missing	ERR1000783_Paracentrotus_lividus	Transpi	8.5	6,803,316	75	
Missing	SRR10744002_Paracentrotus_lividus	Transpi	2.5	13,583,857	75	
Missing	SRR1232685_Nephtys_caeca	Transpi	53.1	1,576,665	75	
Missing	SRR1271607_Gnathostomula_paradoxa	Transpi	22	5,954,962	75	
Missing	SRR1271706_Macrodasys_sp	Transpi	13.1	3,204,609	75	
Missing	SRR1273732_Lepidodermella_squamata	Transpi	24.9	4,370,938	75	
Missing	SRR1273789_Cephalothrix_linearis	Transpi	6.6	4,869,244	75	
Missing	SRR5569439_Acropora_palmata	Transpi	12.5	10,476,071	75	
Missing	SRR8601367_Acropora_pulchra	Transpi	2.1	14,037,157	75	
Missing	SRR1041944_Ephydatia_muelleri	Transpi	5.3	11,425,188	100	
Missing	SRR1042012_Oscarella_pearsei	Transpi	5.3	11,306,242	100	
Missing	SRR1168575_Spongilla_lacustris	Transpi	6	5,136,881	100	
Missing	SRR1711043_Mycale_phylophylla_adult	Transpi	11.1	11,408,543	100	С
Missing	SRR1793376_Haliclona_tubifera	Transpi	5.1	16,356,602	100	С
Missing	SRR504690_Sycon_coactum	Transpi	9.2	9,098,097	100	С
Missing	SRR1145776_Peripatopsis_capensis	Transpi	15.4	11,638,180	100	С
Missing	SRR1505119_Monodonta_labio	Transpi	5.4	10,388,770	100	С
Missing	SRR1560310_Lyonsia_floridana	Transpi	5.9	9,919,645	100	С
Missing	SRR1560359_Mercenaria_campechiensis	Transpi	59.1	11,935,267	100	С
Missing	SRR1560432_Neotrigonia_margaritacea	Transpi	18.1	11,215,767	100	С
Missing	SRR1560458_Cardites_antiquatus	Transpi	27.9	11,916,756	100	С
Missing	SRR1561723_Sphaerium_nucleus	Transpi	31.9	18,539,173	100	С
Missing	SRR1611556_Hemithiris_psittacea	Transpi	4.1	9,221,875	100	С
Missing	SRR1611560_Malacobdella_grossa	Transpi	3.6	8,307,739	100	С
Missing	SRR1611565_Phoronis_psammophila	Transpi	1.4	12,949,999	100	С
Missing	SRR1796434_Catenula_lemnae	Transpi	30.2	3,028,636	100	С
Missing	SRR3097584 Florometra	Transpi	1.6	32,710,859	100	С
Missing	SRR3105702 Childia submaculatum	Transpi	14.8	6,089,955	100	С
Missing	SRR331123 Ennucula tenuis	Transpi	1.6	14,420,942	100	С
Missing	SRR7655554_Ircinia_fasciculata	Transpi	10.1	13,420,109	100	
Missing	SRR7754744 Krohnitta subtilis	Transpi	3.8	15,954,007	100	
Missing	SRR10527303 Octolasmis warwickii	Transpi	3.9	15,813,391	150	
Missing	SRR3350463_Dimya_lima	Transpi	25.4	5,426,850	150	
Missing	SRR3404576 Brachionus plicatilis	Transpi	4.9	7,403,847	150	
Missing	SRR4113507_Calanus_finmarchicus	Transpi	9.5	10,633,606	150	
Missing	SRR4294206_Millepora_alcicornis	Transpi	2.1	24,645,545	150	
Missing	SRR504694 Corticium candelabrum	Transpi	3.9	18,897,095	150	
Missing	SRR5140141_Eoleptestheria_cf_ticinensis	Transpi	5.8	5,471,351	150	
Missing	SRR5626553_Nautilus_pompilius	Transpi	11	16,461,197	150	
Missing	SRR5873556 Neocalanus Flemingeri	Transpi	4.9	4,112,626	150	
Missing	SRR8393254_Apostichopus_japonicus	Transpi	2	8,289,770	150	
			0.1		150	
Missing	SRR8491966_Porites_pukoensis	Transpi	93.6	16,448,725	50	
Complete	ERR3026433_Pinnigorgia_flava	Trinity		30,545,400		
Complete	ERR3026434_Sinularia_cruciata	Trinity	84.9	22,160,908	50	
Complete	ERR3026435_Tubipora_musica	Trinity	91.6	23,006,724	50	
Complete	ERR3040053_Heliopora_coerulea	Trinity	89.5	29,000,821	50	
Complete	SRR8280777_Godzilliognomus_frondosus	Trinity	82.2	14,086,834	75	
Complete	SRR8745910_Galeodes_sp	Trinity	82.8	6,356,774	75	
Complete	SRR8745911_Peripatoides_novaezealandiae_onyo	·	83.3	5,768,550	75	
Complete	ERR1000783_Paracentrotus_lividus	Trinity	73.9	6,803,316	75	
Complete	SRR10744002_Paracentrotus_lividus	Trinity	93.4	13,583,857	75	В

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Complete	SRR1232685_Nephtys_caeca	Trinity	26.6	1,576,665	75	
Complete	SRR1271607_Gnathostomula_paradoxa	Trinity	54.1	5,954,962	75	
Complete	SRR1271706_Macrodasys_sp	Trinity	72.6	3,204,609	75	
Complete	SRR1273732_Lepidodermella_squamata	Trinity	52.1	4,370,938	75	
Complete	SRR1273789_Cephalothrix_linearis	Trinity	79.7	4,869,244	75	
Complete	SRR5569439_Acropora_palmata	Trinity	66.1	10,476,071	75	
Complete	SRR8601367_Acropora_pulchra	Trinity	89.8	14,037,157	75	
Complete	SRR1041944_Ephydatia_muelleri	Trinity	94.4	11,425,188	100	
Complete	SRR1042012_Oscarella_pearsei	Trinity	92.6	11,306,242	100	
Complete	SRR1168575_Spongilla_lacustris	Trinity	85	5,136,881	100	
Complete	SRR1711043_Mycale_phylophylla_adult	Trinity	77.4	11,408,543	100	С
Complete	SRR1793376_Haliclona_tubifera	Trinity	94.2	16,356,602	100	С
Complete	SRR504690_Sycon_coactum	Trinity	82.6	9,098,097	100	С
Complete	SRR1145776_Peripatopsis_capensis	Trinity	61.6	11,638,180	100	С
Complete	SRR1505119_Monodonta_labio	Trinity	84.2	10,388,770	100	С
Complete	SRR1560310_Lyonsia_floridana	Trinity	76.7	9,919,645	100	С
Complete	SRR1560359_Mercenaria_campechiensis	Trinity	20.3	11,935,267	100	С
Complete	SRR1560432_Neotrigonia_margaritacea	Trinity	57.7	11,215,767	100	С
Complete	SRR1560458_Cardites_antiquatus	Trinity	42.7	11,916,756	100	С
Complete	SRR1561723_Sphaerium_nucleus	Trinity	34.6	18,539,173	100	С
Complete	SRR1611556_Hemithiris_psittacea	Trinity	94.5	9,221,875	100	С
Complete	SRR1611560_Malacobdella_grossa	Trinity	94.3	8,307,739	100	С
Complete	SRR1611565_Phoronis_psammophila	Trinity	92.6	12,949,999	100	С
Complete	SRR1796434 Catenula lemnae	Trinity	52.5	3,028,636	100	С
Complete	SRR3097584 Florometra	Trinity	98	32,710,859	100	С
Complete	SRR3105702 Childia submaculatum	Trinity	81.8	6,089,955	100	С
Complete	SRR331123 Ennucula tenuis	Trinity	94.2	14,420,942	100	С
Complete	SRR7655554 Ircinia fasciculata	Trinity	71.4	13,420,109	100	С
Complete	SRR7754744 Krohnitta subtilis	Trinity	88.2	15,954,007	100	С
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	
Complete	SRR4113507_Calanus_finmarchicus	Trinity	79.8	10,633,606	150	
Complete	SRR4294206_Millepora_alcicornis	Trinity	97.3	24,645,545	150	
Complete	SRR504694_Corticium_candelabrum	Trinity	91.2	18,897,095	150	
Complete	SRR5140141 Eoleptestheria cf ticinensis	Trinity	84.8	5,471,351	150	
Complete	SRR5626553_Nautilus_pompilius	Trinity	62.2	16,461,197	150	
Complete	SRR5873556_Neocalanus_Flemingeri	Trinity	88.8	4,112,626	150	
Complete	SRR8393254 Apostichopus japonicus	Trinity	91.6	8,289,770	150	
•	SRR8491966 Porites pukoensis				150	
Complete		Trinity	99.4	16,448,725		
Single-Copy	ERR3026433_Pinnigorgia_flava	Trinity	66.6	30,545,400	50	
Single-Copy	ERR3026434_Sinularia_cruciata	Trinity	68	22,160,908	50	
Single-Copy	ERR3026435_Tubipora_musica	Trinity	73.5	23,006,724	50	
Single-Copy	ERR3040053_Heliopora_coerulea	Trinity	65.7	29,000,821	50	
Single-Copy	SRR8280777_Godzilliognomus_frondosus	Trinity	63.6	14,086,834	75	
Single-Copy	SRR8745910_Galeodes_sp	Trinity	51	6,356,774	75	
Single-Copy	SRR8745911_Peripatoides_novaezealandiae_onyo		66.7	5,768,550	75	
Single-Copy	ERR1000783_Paracentrotus_lividus	Trinity	40.8	6,803,316	75	
Single-Copy	SRR10744002_Paracentrotus_lividus	Trinity	30	13,583,857	75	
Single-Copy	SRR1232685_Nephtys_caeca	Trinity	23.9	1,576,665	75	В

Single-Copy	SRR1271706_Macrodasys_sp	Trinity	56.5	3,204,609	75	В
Single-Copy	SRR1273732_Lepidodermella_squamata	Trinity	40.4	4,370,938	75	В
Single-Copy	SRR1273789_Cephalothrix_linearis	Trinity	65.7	4,869,244	75	В
Single-Copy	SRR5569439_Acropora_palmata	Trinity	46.2	10,476,071	75	В
Single-Copy	SRR8601367_Acropora_pulchra	Trinity	58.7	14,037,157	75	В
Single-Copy	SRR1041944_Ephydatia_muelleri	Trinity	33.3	11,425,188	100	С
Single-Copy	SRR1042012_Oscarella_pearsei	Trinity	32.7	11,306,242	100	С
Single-Copy	SRR1168575_Spongilla_lacustris	Trinity	41.7	5,136,881	100	С
Single-Copy	SRR1711043_Mycale_phylophylla_adult	Trinity	47.8	11,408,543	100	С
Single-Copy	SRR1793376_Haliclona_tubifera	Trinity	27.8	16,356,602	100	С
Single-Copy	SRR504690_Sycon_coactum	Trinity	47	9,098,097	100	С
Single-Copy	SRR1145776_Peripatopsis_capensis	Trinity	48.7	11,638,180	100	С
Single-Copy	SRR1505119 Monodonta labio	Trinity	58.9	10,388,770	100	С
Single-Copy	SRR1560310_Lyonsia_floridana	Trinity	52.4	9,919,645	100	С
Single-Copy	SRR1560359 Mercenaria campechiensis	Trinity	13.7	11,935,267	100	С
Single-Copy	SRR1560432_Neotrigonia_margaritacea	Trinity	47.3	11,215,767	100	
Single-Copy	SRR1560458 Cardites antiquatus	Trinity	32.3	11,916,756	100	
Single-Copy	SRR1561723 Sphaerium nucleus	Trinity	16.4	18,539,173	100	
Single-Copy	SRR1611556 Hemithiris psittacea	Trinity	29.1	9,221,875	100	
Single-Copy	SRR1611560_Malacobdella_grossa	Trinity	20.4	8,307,739	100	
Single-Copy	SRR1611565 Phoronis psammophila	Trinity	21.6	12,949,999	100	
Single-Copy	SRR1796434_Catenula_lemnae	Trinity	31.7	3,028,636	100	
Single-Copy	SRR3097584 Florometra	Trinity	41.3	32,710,859	100	
Single-Copy	SRR3105702_Childia_submaculatum	Trinity	25.9	6,089,955	100	
ingle-Copy	SRR331123_Ennucula_tenuis	Trinity	53.8	14,420,942	100	
ingle-Copy	SRR7655554_Ircinia_fasciculata	Trinity	35.9	13,420,109	100	
ingle-Copy	SRR7754744 Krohnitta subtilis	Trinity	32.2	15,954,007	100	
Single-Copy	SRR10527303_Octolasmis_warwickii	Trinity	27.6	15,813,391	150	
Single-Copy	SRR3350463_Dimya_lima	Trinity	34	5,426,850	150	
Single-Copy	SRR3404576_Brachionus_plicatilis	Trinity	57.7	7,403,847	150	
Single-Copy	SRR4113507_Calanus_finmarchicus	Trinity	31.7	10,633,606	150	
Single-Copy	SRR4294206_Millepora_alcicornis	Trinity	48.7	24,645,545	150	
Single-Copy	SRR504694_Corticium_candelabrum	Trinity	33.7	18,897,095	150	
Single-Copy	SRR5140141 Eoleptestheria cf ticinensis	Trinity	44.5	5,471,351	150	
Single-Copy	SRR5626553_Nautilus_pompilius	Trinity	34.4	16,461,197	150	
Single-Copy	SRR5873556_Neocalanus_Flemingeri	Trinity	60.2	4,112,626	150	
Single-Copy	SRR8393254 Apostichopus japonicus	Trinity	26.2	8,289,770	150	
Single-Copy	SRR8491966 Porites pukoensis	Trinity	23.5	16,448,725	150	
Duplicated	ERR3026433 Pinnigorgia flava	Trinity	27	30,545,400	50	
Duplicated	ERR3026434 Sinularia cruciata	Trinity	16.9	22,160,908	50	
Duplicated	ERR3026435_Tubipora_musica	Trinity	18.1	23,006,724	50	
Duplicated	ERR3040053_Heliopora_coerulea	Trinity	23.8	29,000,724	50	
Duplicated	SRR8280777_Godzilliognomus_frondosus	Trinity	18.6	14,086,834	75	
Duplicated	SRR8745910_Galeodes_sp	Trinity	31.8	6,356,774	75	
Duplicated	SRR8745911_Peripatoides_novaezealandiae_t	·	16.6	5,768,550	75	
Duplicated	ERR1000783_Paracentrotus_lividus	Trinity	33.1	6,803,316	75	
					75	
Duplicated	SRR10744002_Paracentrotus_lividus	Trinity	63.4	13,583,857		
Duplicated	SRR1232685_Nephtys_caeca	Trinity	2.7	1,576,665	75	
Duplicated	SRR1271607_Gnathostomula_paradoxa	Trinity	26	5,954,962	75	
Duplicated	SRR1271706_Macrodasys_sp	Trinity	16.1	3,204,609	75	R

Duplicated	SRR1273789 Cephalothrix linearis	Trinity	14	4,869,244	75	В
Duplicated	SRR5569439_Acropora_palmata	Trinity	19.9	10,476,071	75	В
Duplicated	SRR8601367 Acropora pulchra	Trinity	31.1	14,037,157	75	В
	SRR1041944_Ephydatia_muelleri	Trinity	61.1	11,425,188	100	С
Duplicated	SRR1042012 Oscarella pearsei	Trinity	59.9	11,306,242	100	С
	SRR1168575_Spongilla_lacustris	Trinity	43.3	5,136,881	100	С
Duplicated	SRR1711043 Mycale phylophylla adult	Trinity	29.6	11,408,543	100	С
Duplicated	SRR1793376 Haliclona tubifera	Trinity	66.4	16,356,602	100	С
Duplicated	SRR504690 Sycon coactum	Trinity	35.6	9,098,097	100	С
Duplicated	SRR1145776 Peripatopsis capensis	Trinity	12.9	11,638,180	100	С
Duplicated	SRR1505119_Monodonta_labio	Trinity	25.3	10,388,770	100	
Duplicated	SRR1560310_Lyonsia_floridana	Trinity	24.3	9,919,645	100	С
Duplicated	SRR1560359 Mercenaria campechiensis	Trinity	6.6	11,935,267	100	С
 Duplicated	SRR1560432 Neotrigonia margaritacea	Trinity	10.4	11,215,767	100	
Duplicated	SRR1560458 Cardites antiquatus	Trinity	10.4	11,916,756	100	
Duplicated	SRR1561723 Sphaerium nucleus	Trinity	18.2	18,539,173	100	
Duplicated	SRR1611556 Hemithiris psittacea	Trinity	65.4	9,221,875	100	
Duplicated	SRR1611560 Malacobdella grossa	Trinity	73.9	8,307,739	100	
Duplicated	SRR1611565 Phoronis psammophila	Trinity	71	12,949,999	100	
Duplicated	SRR1796434 Catenula lemnae	Trinity	20.8	3,028,636	100	
Duplicated	SRR3097584 Florometra	Trinity	56.7	32,710,859	100	
Duplicated	SRR3105702_Childia_submaculatum	Trinity	55.9	6,089,955	100	
Duplicated	SRR331123 Ennucula tenuis	Trinity	40.4	14,420,942	100	
Duplicated	SRR7655554 Ircinia fasciculata	Trinity	35.5	13,420,109	100	
Duplicated	SRR7754744 Krohnitta subtilis	Trinity	56	15,954,007	100	
Duplicated	SRR10527303 Octolasmis warwickii	Trinity	69.9	15,813,391	150	
Duplicated	SRR3350463 Dimya lima	Trinity	19.1	5,426,850	150	
Duplicated	SRR3404576_Brachionus_plicatilis	Trinity	37.8	7,403,847	150	
Duplicated	SRR4113507_Calanus_finmarchicus	Trinity	48.1	10,633,606	150	
Duplicated	SRR4294206 Millepora alcicornis	Trinity	48.6	24,645,545	150	
Duplicated	SRR504694 Corticium candelabrum	Trinity	57.5	18,897,095	150	
Duplicated	SRR5140141 Eoleptestheria cf ticinensis	Trinity	40.3	5,471,351	150	
Duplicated	SRR5626553_Nautilus_pompilius	Trinity	27.8	16,461,197	150	
Duplicated	SRR5873556 Neocalanus Flemingeri	Trinity	28.6	4,112,626	150	
Duplicated	SRR8393254 Apostichopus japonicus	Trinity	65.4	8,289,770	150	
Duplicated	SRR8491966_Porites_pukoensis	Trinity	75.9	16,448,725	150	
-ragmented	ERR3026433_Pinnigorgia_flava	Trinity	4.6	30,545,400	50	
ragmented	ERR3026434 Sinularia cruciata	Trinity	11.3	22,160,908	50	
ragmented	ERR3026435_Tubipora_musica	Trinity	5.8	23,006,724	50	
-ragmented	ERR3040053_Heliopora_coerulea	Trinity	8.5	29,000,724	50	
-ragmented	SRR8280777_Godzilliognomus_frondosus	Trinity	11.3	14,086,834	75	
-ragmented	SRR8745910_Galeodes_sp	Trinity	13.9	6,356,774	75	
ragmented	SRR8745911_Peripatoides_novaezealandiae_onyo		9.3	5,768,550	75	
ragmented	ERR1000783_Paracentrotus_lividus	Trinity	18	6,803,316	75	
ragmented	SRR10744002 Paracentrotus lividus	Trinity	4.8	13,583,857	75	
ragmented	SRR1232685 Nephtys caeca	Trinity	28.2	1,576,665	75	
ragmented	SRR1271607_Gnathostomula_paradoxa	Trinity	25.6	5,954,962	75	
ragmented	SRR1271706_Macrodasys_sp	Trinity	15.4	3,204,609	75	
ragmented					75	
	SRR1273732_Lepidodermella_squamata	Trinity	25.8	4,370,938	75	
Fragmented Fragmented	SRR1273789_Cephalothrix_linearis SRR5569439 Acropora palmata	Trinity Trinity	16.2 22.5	4,869,244 10,476,071	75	

Fragmented	SRR8601367_Acropora_pulchra	Trinity	8.3	14,037,157	75	В
Fragmented	SRR1041944_Ephydatia_muelleri	Trinity	1.5	11,425,188	100	С
Fragmented	SRR1042012_Oscarella_pearsei	Trinity	2.7	11,306,242	100	С
Fragmented	SRR1168575_Spongilla_lacustris	Trinity	10.2	5,136,881	100	С
Fragmented	SRR1711043_Mycale_phylophylla_adult	Trinity	13.4	11,408,543	100	С
ragmented	SRR1793376_Haliclona_tubifera	Trinity	1.3	16,356,602	100	С
- ragmented	SRR504690_Sycon_coactum	Trinity	8.4	9,098,097	100	С
- ragmented	SRR1145776_Peripatopsis_capensis	Trinity	30.3	11,638,180	100	С
- ragmented	SRR1505119_Monodonta_labio	Trinity	12.3	10,388,770	100	С
ragmented	SRR1560310_Lyonsia_floridana	Trinity	20.1	9,919,645	100	С
ragmented	SRR1560359_Mercenaria_campechiensis	Trinity	21.8	11,935,267	100	С
ragmented	SRR1560432_Neotrigonia_margaritacea	Trinity	27.8	11,215,767	100	С
ragmented	SRR1560458_Cardites_antiquatus	Trinity	33.1	11,916,756	100	С
ragmented	SRR1561723 Sphaerium nucleus	Trinity	43.3	18,539,173	100	С
ragmented	SRR1611556 Hemithiris psittacea	Trinity	4.2	9,221,875	100	С
ragmented	SRR1611560 Malacobdella grossa	Trinity	2.6	8,307,739	100	
ragmented	SRR1611565 Phoronis psammophila	Trinity	6.5	12,949,999	100	
ragmented	SRR1796434 Catenula lemnae	Trinity	18.6	3,028,636	100	С
ragmented	SRR3097584_Florometra	Trinity	1.2	32,710,859	100	
ragmented	SRR3105702 Childia submaculatum	Trinity	5	6,089,955	100	
ragmented	SRR331123 Ennucula tenuis	Trinity	4.7	14,420,942	100	С
ragmented	SRR7655554 Ircinia fasciculata	Trinity	19.4	13,420,109	100	
ragmented	SRR7754744 Krohnitta subtilis	Trinity	8.3	15,954,007	100	
ragmented	SRR10527303 Octolasmis warwickii	Trinity	0.7	15,813,391	150	
ragmented	SRR3350463 Dimya lima	Trinity	29.9	5,426,850	150	
ragmented	SRR3404576_Brachionus_plicatilis	Trinity	0.4	7,403,847	150	
ragmented	SRR4113507 Calanus finmarchicus	Trinity	16.8	10,633,606	150	
ragmented	SRR4294206_Millepora_alcicornis	Trinity	1	24,645,545	150	
ragmented	SRR504694_Corticium_candelabrum	Trinity	5.8	18,897,095	150	
ragmented	SRR5140141_Eoleptestheria_cf_ticinensis	Trinity	12.9	5,471,351	150	
ragmented	SRR5626553 Nautilus pompilius	Trinity	32.8	16,461,197	150	
ragmented	SRR5873556 Neocalanus Flemingeri	Trinity	7.3	4,112,626	150	
ragmented	SRR8393254_Apostichopus_japonicus	Trinity	7.3	8,289,770	150	
ragmented	SRR8491966_Porites_pukoensis	Trinity	0.6	16,448,725	150	
Missing	ERR3026433_Pinnigorgia_flava	Trinity	1.8	30,545,400	50	
Missing	ERR3026434 Sinularia cruciata	Trinity	3.8	22,160,908	50	
Missing	ERR3026435 Tubipora musica	Trinity	2.6	23,006,724	50	
Missing	ERR3040053 Heliopora coerulea	Trinity	2	29,000,821	50	
Missing	SRR8280777_Godzilliognomus_frondosus	Trinity	6.5	14,086,834	75	
Missing	SRR8745910 Galeodes sp	Trinity	3.3	6,356,774	75	
Missing	SRR8745911_Peripatoides_novaezealandiae_u		7.4	5,768,550	75	
Missing	ERR1000783 Paracentrotus lividus	Trinity	8.1	6,803,316	75	
Viissing	SRR10744002_Paracentrotus_lividus	Trinity	1.8	13,583,857	75	
Missing	SRR1232685 Nephtys caeca	Trinity	45.2	1,576,665	75	
Missing	SRR1271607_Gnathostomula_paradoxa	Trinity	20.3	5,954,962	75	
Viissing	SRR1271706_Macrodasys_sp	Trinity	12	3,204,609	75	
Viissing	SRR1273732_Lepidodermella_squamata	Trinity	22.1	4,370,938	75	
Missing	SRR1273789_Cephalothrix_linearis	Trinity	4.1	4,869,244	75	
Missing	SRR5569439_Acropora_palmata	Trinity	11.4	10,476,071	75	
Viissing	SRR8601367 Acropora pulchra	Trinity	1.9	14,037,157	75	
Viissing	SRR1041944_Ephydatia_muelleri	Trinity	4.1	11,425,188	100	

Missing	SRR1042012 Oscarella pearsei	Trinity	4.7	11,306,242	100	С
Missing	SRR1168575_Spongilla_lacustris	Trinity	4.8	5,136,881	100	С
Missing	SRR1711043_Mycale_phylophylla_adult	Trinity	9.2	11,408,543	100	С
Missing	SRR1793376_Haliclona_tubifera	Trinity	4.5	16,356,602	100	С
Missing	SRR504690_Sycon_coactum	Trinity	9	9,098,097	100	С
Missing	SRR1145776_Peripatopsis_capensis	Trinity	8.1	11,638,180	100	С
Missing	SRR1505119_Monodonta_labio	Trinity	3.5	10,388,770	100	С
Missing	SRR1560310_Lyonsia_floridana	Trinity	3.2	9,919,645	100	С
Missing	SRR1560359_Mercenaria_campechiensis	Trinity	57.9	11,935,267	100	С
Missing	SRR1560432_Neotrigonia_margaritacea	Trinity	14.5	11,215,767	100	С
Missing	SRR1560458_Cardites_antiquatus	Trinity	24.2	11,916,756	100	С
Missing	SRR1561723_Sphaerium_nucleus	Trinity	22.1	18,539,173	100	С
Missing	SRR1611556_Hemithiris_psittacea	Trinity	1.3	9,221,875	100	С
Missing	SRR1611560_Malacobdella_grossa	Trinity	3.1	8,307,739	100	С
Missing	SRR1611565_Phoronis_psammophila	Trinity	0.9	12,949,999	100	С
Missing	SRR1796434_Catenula_lemnae	Trinity	28.9	3,028,636	100	С
Missing	SRR3097584_Florometra	Trinity	0.8	32,710,859	100	С
Missing	SRR3105702_Childia_submaculatum	Trinity	13.2	6,089,955	100	С
Missing	SRR331123_Ennucula_tenuis	Trinity	1.1	14,420,942	100	С
Missing	SRR7655554_Ircinia_fasciculata	Trinity	9.2	13,420,109	100	С
Missing	SRR7754744_Krohnitta_subtilis	Trinity	3.5	15,954,007	100	С
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