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SUPPLEMENTARY MATERIALS

SUPPLEMENTAL FIGURES AND TABLES LEGENDS

Figure S1. Detailed flowchart of the TIDAL program.

After the split, transposon insertions are detected through the steps on the left, while deletions are detected through the steps on the right. Complete parameter details are described in the Methods section.

Figure S2. Comparison of the overall transposon distributions and genomic architecture between the current Release6/dm6 build and the previous Release5/dm3 build, and functional annotations of TE InDels in cell line genomes.

(A) The percentage content of RepeatMasker masked sequences per 50kb window is shown above the banding patterns for each chromosome of the *D. melanogaster* genome. Many of the regions previously absent in the diagrams for Release5/dm3 were not assembled as contiguous portions of the main chromosome arms. (B) Proportions of the functional annotations for TE InDels in the various cell line genomes. This panel relates to Fig. 2.

Figure S3. Genomic PCR validation of TIDAL predictions for *D. melanogaster* S2c1 cells (Part 1) and ISO1 sub-strains (Part 2).

Part 1: (A) Transposon insertions validation tests for S2c1 cells predictions. Top, schematic of primers designed to flank the TE insertion by pairing to unique genomic sequence. Middle, gels of 15 sites tested by PCR with genomic DNA from S2c1 cells, and ISO1-BL and RAL-362 flies. Bottom, table listing the loci with TE insertions tested in the PCR assays above. (B) Transposons deletions validation tests for S2c1 cells predictions. Top, schematic of primers designed to flank the TE depletion by pairing to unique genomic sequence. Middle, gels of 10 sites tested by PCR with genomic DNA from S2c1 cells, and ISO1-BL and RAL-362 flies. Bottom, table listing the loci with TE deletions tested in the PCR assays above. Asterisks mark judgement calls for validations based on the absence of the reference genome allele for TE Insertions and

presence of a smaller band in the TE Depletions as an indication that the PCR result was supportive of the TIDAL prediction. **Part 2: (C)** Transposon insertions validation tests for ISO1-BL predictions. Top, schematic of primers designed to flank the TE insertion by pairing to unique genomic sequence. Middle, gels of 12 sites tested by PCR with genomic DNA from RAL-362, ISO1-UC, and ISO1-BL flies. Bottom, table listing the loci with TE insertions tested in the PCR assays above. **(D)** Transposons depletions validation tests for ISO1-BL predictions. Top, schematic of primers designed to flank the TE depletion by pairing to unique genomic sequence (left) and a PCR that uses one reverse primer base-pairing to the TE sequence present in the reference genome sequence (right). The reverse primer against the TE is more prone to generating a TE amplicon artifact. Middle, gels of 12 sites tested by PCR with genomic DNA from RAL-362, ISO1-UC, and ISO1-BL flies. Left gels are PCRs from primers that both flank the TE, while the right gels are PCRs with one reverse primer against TE sequence, which tends to fail more frequently with primer dimers. Bottom, table listing the loci with TE depletions tested in the PCR assays above.

Figure S4. Additional analyses of TEs in Canton-S sub-strains.

(A) Euler diagrams showing the overlap of TE InDels between sub-strains from 5 different labs, with all TE InDels in the top diagrams, whereas below are only the TE InDels with $CR \geq 3.0$. **(B)** Similar Euler diagrams as in **(A)** except that the CanS-JC sub-strain replaces the CanS-SH sub-strain. These diagrams are to illustrate the notably stronger overlap in TE insertions between the CanS-JC and the CanS-TP sub-strains, which are two lines maintained independently but both originating from the same single lab source. **(C)** Proportions of all of the InDels by TE family between the CanS sub-strains. **(D)** Proportions of InDels with $CR \geq 3.0$ by TE family between the CanS sub-strains, which is generally similar to the proportions of all TE InDels in **(C)**. **(E)** Proportions of the genomic functional annotations immediately near the sites of TE InDels. **(F)** Scatterplot comparing sequencing depth to numbers of TE InDels detected amongst CanS sub-strain libraries (various combinations of independent sequencing runs). Trend lines show linear relationship between sequencing depth and server

processing time, and logarithmic relationship between depth and numbers of TE InDels detected by TIDAL.

Figure S5. Additional analyses of TEs in ISO1 sub-strains.

(A) Euler diagrams comparing the overlap of TE InDels between –BL and –CL sub-strain of ISO1, (B) between –BL and –AS sub-strains, and (C) between different tissues of the ISO1–AS fly line. Abbreviations: BL, Bloomington; CL, Charles Langley lab; AS, Alan Spradling lab; HEm12, Haploid Embryo samples 1&2; Ova, Ovaries; LSg123, Larval Salivary gland samples 1,2,3; Emb123, Embryos sample 1,2,3. The ISO1-BL library is from adult females from the Bloomington Drosophila Stock Center, the ISO1-CL libraries (whole flies and haploid embryos) are from the Langley lab, and the ISO1-AS libraries (ovaries, embryos, and larval salivary glands) are from the Spradling lab. (D) Proportions of InDels by TE family between ISO1 sub-strains. (E) Comparison of the InDels proportions by TE family predicted by TIDAL from different combinations of sequencing runs of the ISO1-BL libraries. Greater sequencing depth generally uncovers the rarer TE InDels in the genomic library. (F) Scatterplot comparing sequencing depth to numbers of TE InDels detected amongst ISO1 sub-strains. Trend lines show linear relationship between sequencing depth and server processing time, and logarithmic relationship between depth and numbers of TE InDels detected by TIDAL. (G) Scatterplot comparing sequencing depth to numbers of TE InDels detected amongst various combinations of independent sequencing runs of the ISO1-BL library. (H) Calculations of transposition rates in the ISO1-BL sub-strain for each TE per genomic copy and per generation, assuming that ~450 generations (~15 years between the sequencing of ISO1-BL and the original reference genome isolate, and an average 12 day life cycle).

Figure S6. Additional benchmarking results comparing TIDAL with LnB, CnT, and TEMP programs for TE insertion predictions in DGRP fly strains.

(A) For DGRP strains that are only analyzed by TEMP and TIDAL, there is much greater overlap in TE depletion predictions between the two programs (red bars) compared to the TE insertion predictions. (B) Table comparing the general design,

distinctions, and limitations of our TIDAL program compared to the other three programs with common outputs for DGRP strains. A diagram of chromosome 4's high density of transposons, from Figure S2, is shown as a reminder for how false positives can be spotted in other programs. **(C)** Euler diagrams of the overlap in TE insertions predicted by all four programs for RAL-109 and RAL-391 strains, with diagrams on the left showing all TE insertions and the diagrams on the right that lack obvious false positives such as Chr4 and Chr#Het predictions, these are frequently repetitive genomic loci that for some reason have not been masked by RepeatMasker. Note the removal of these false positives largely only reduce the predictions unique to TEMP and CnT programs.

Figure S7. Comparison of genomic PCR validation tests between TIDAL, LnB, CnT and TEMP programs for transposon insertions predictions for the RAL-765 strains. **(A)** Transposon insertions only predicted by TIDAL. Top, gels of 12 sites tested by PCR with genomic DNA from RAL-765, RAL-362, RAL-517, and ISO1-BL flies. Bottom, table listing the loci with TE insertions tested in the PCR assays above. The same format of panel A extends to panels B, C, and D. **(B)** Transposon insertions predicted by LnB which also mostly overlap with TIDAL calls. **(C)** Transposon insertions only predicted by the TEMP program. **(D)** Transposon insertions only predicted by the CnT program. Asterisks mark judgement calls for validations based on the absence of the reference genome allele for TE Insertions and presence of a smaller band in the TE Depletions as an indication that the PCR result was supportive of the TIDAL prediction.

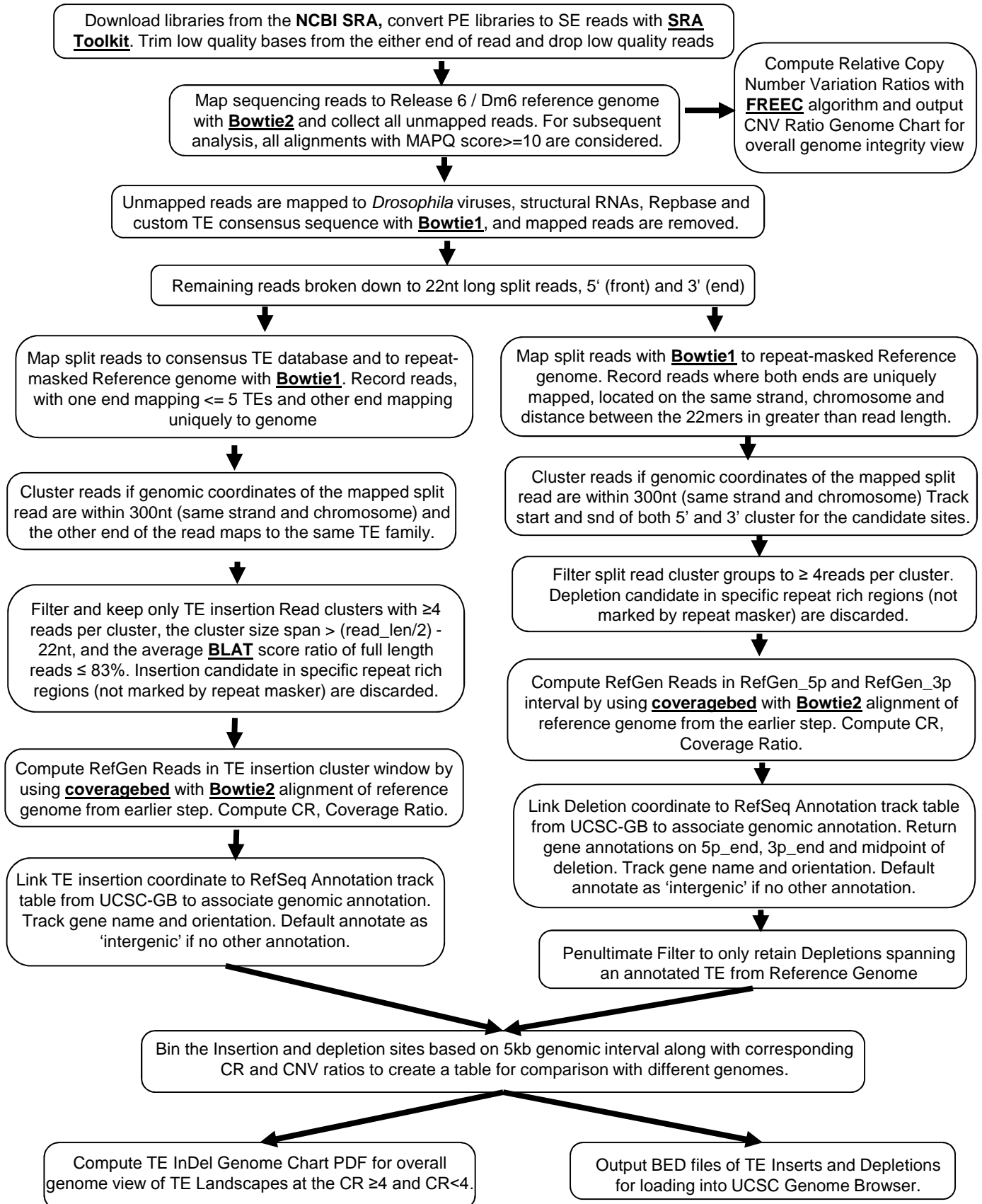
Figure S8. Detailed profiles of transposon depletion landscapes in DGRP and DGN fly strains and pools of flies. **(A)** 45 DGRP Fly strains. **(B)** 46 DGN Fly strains. **(C)** 32 Pools of flies. The top panels show the total counts of transposon insertions, the middle panels show the proportions of each transposon class, and the bottom panels show the proportions of the transposon species with ≥ 20 insertions (the rest are grouped together at the top). The dashed lines and labels in the bottom panels mark notable transposon species.

Figure S9. Detailed profiles of transposon insertion landscapes in DGRP and DGN fly strains and pools of flies, referring to the abridged profiles in Fig. 5. (A) 45 DGRP Fly strains. (B) 46 DGN Fly strains. (C) 32 Pools of flies. The top panels show the total counts of transposon insertions, the middle panels show the proportions of each transposon class, and the bottom panels show the proportions of the transposon species with ≥ 20 insertions (the rest are grouped together at the top). The dashed lines and labels in the bottom panels mark notable transposon species.

Table S1. Details and accession numbers for Illumina libraries of *D. melanogaster* cell lines and fly strains analyzed in this study and incorporated into the TIDAL-Fly database. There are 5 tabs in this worksheet. (A) *D. melanogaster* cell lines. (B) DGRP fly strains. (C) DGN fly strains. (D) Key for the demographics of DGN fly strains. (E) Pools of flies.

Table S2. Oligonucleotides used in this study.

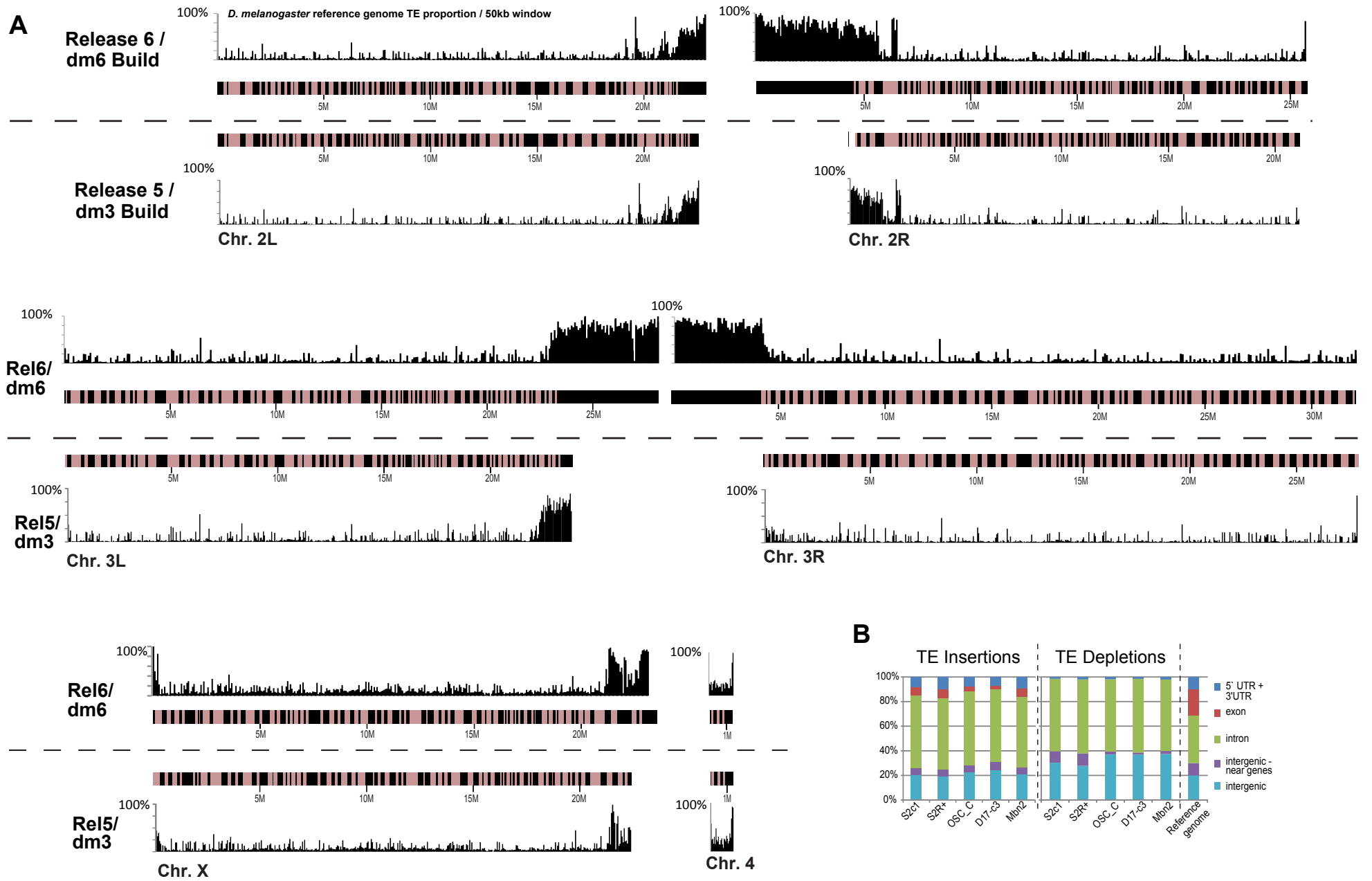
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Figure S1.



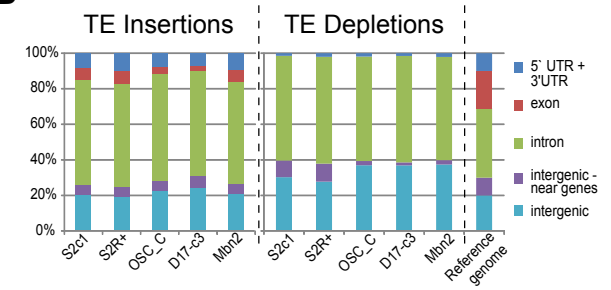
See Methods Text for details of program parameters and equations.

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Figure S2.

A

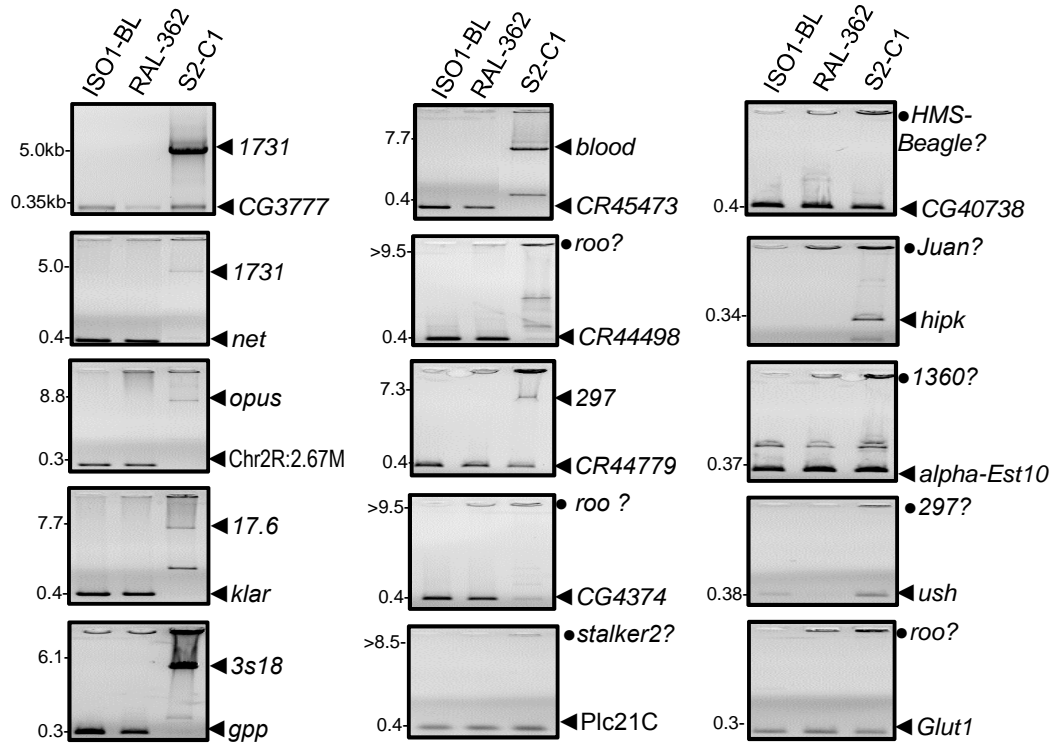
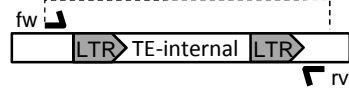


B



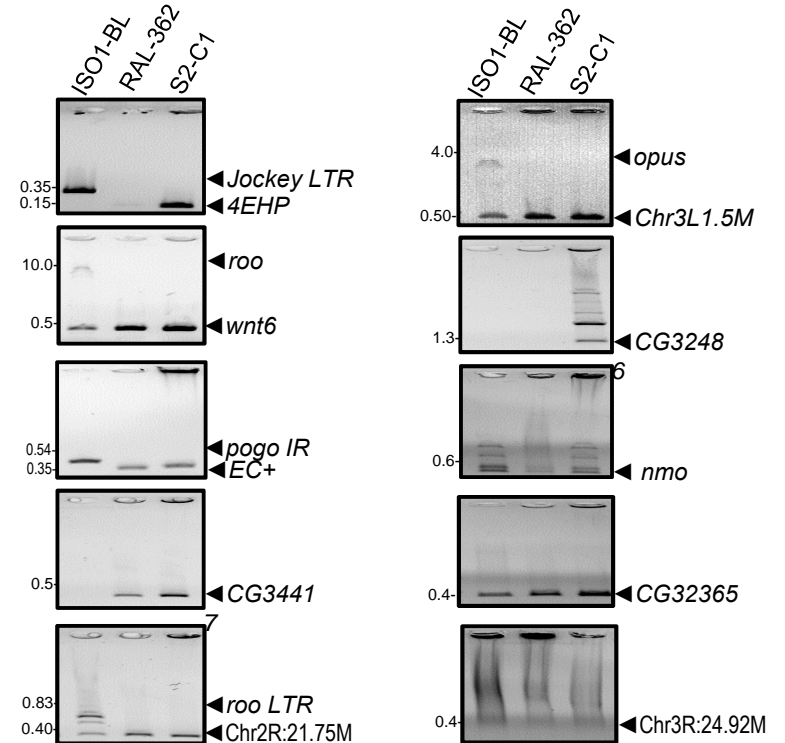
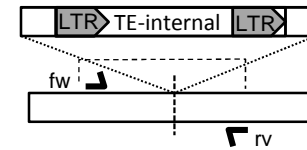
A

TE insertions genomic PCR



B

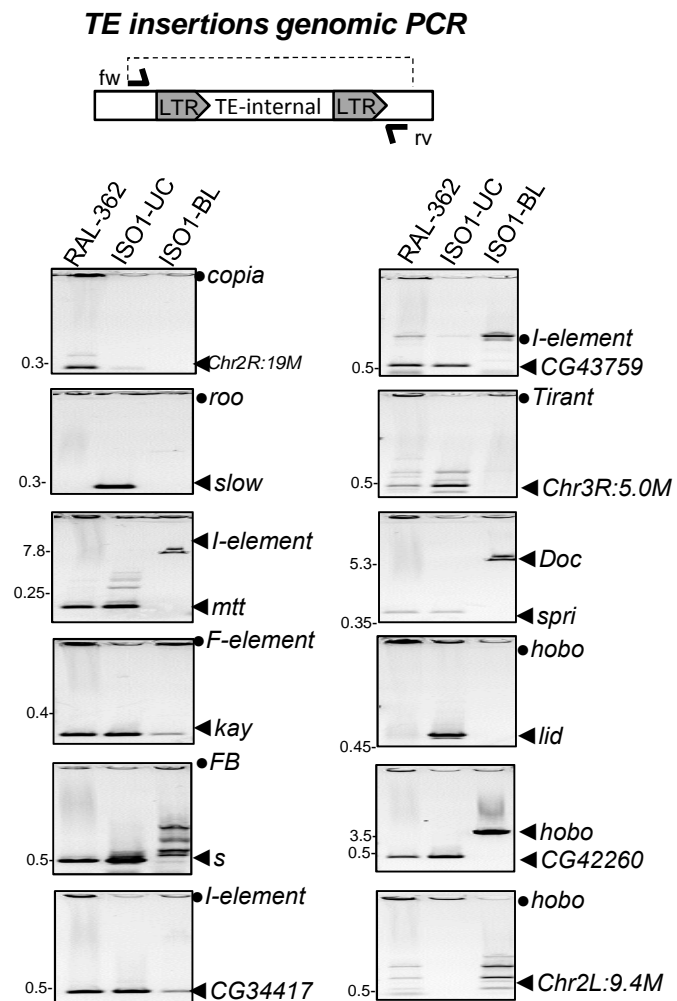
TE depletions genomic PCR



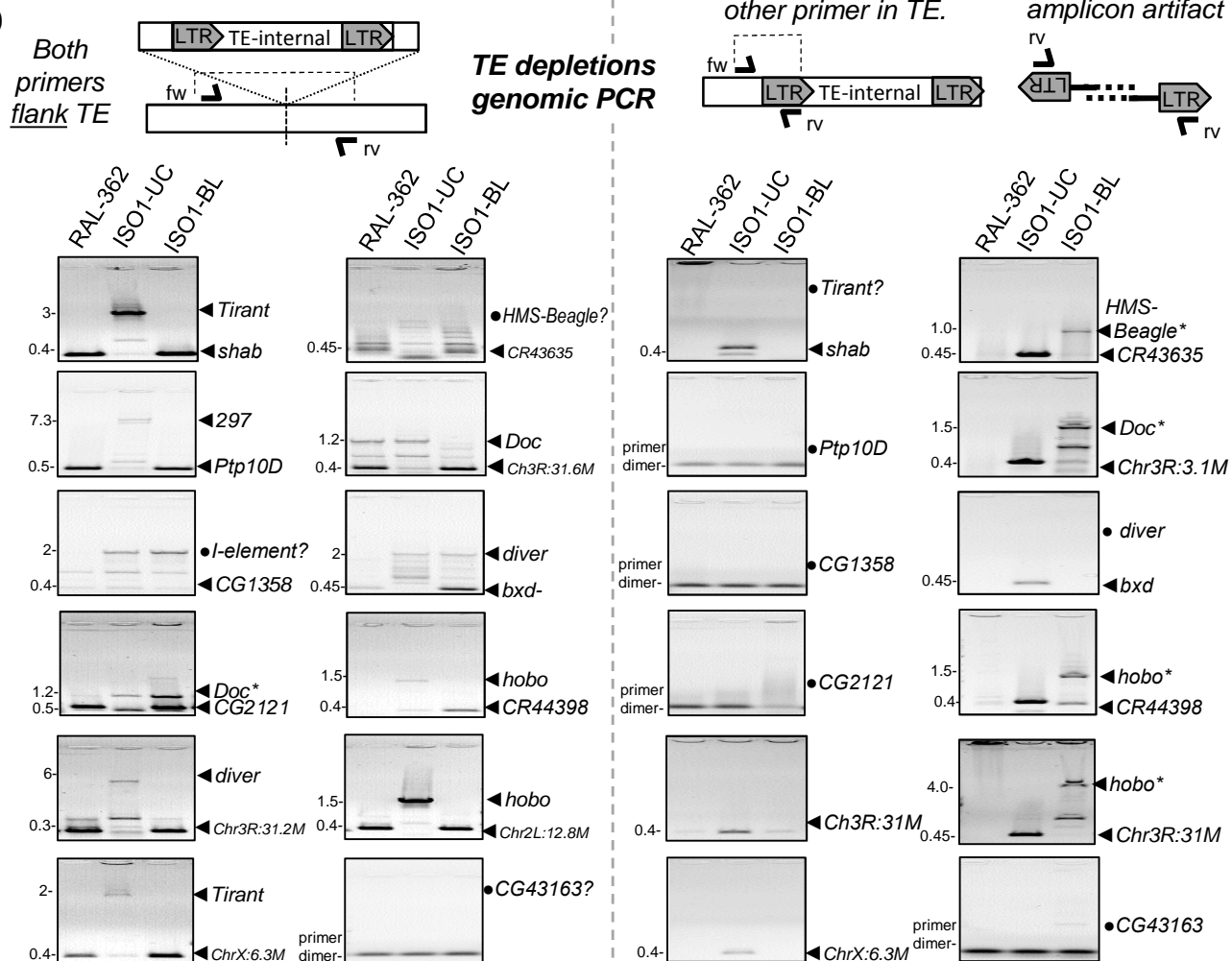
Site. No.	T.E.	Locus	Nearest Gene	Coverage Ratio	Size w/o insertion	Size with insertion	PCR evidence
1	1731	chrX:325934-326139	CG3777 +,CG32816 -	4.5	349	4998	yes
2	1731	chr2L:87055-87258	net -	4	404	5053	yes
3	opus	chr2R:2675584-2675743	not near genes	3.4	332	8891	yes
4	17.6	chr3L:516184-516383	klar -	5.1	349	7788	yes
5	3S18	chr3R:6430955-6431163	gpp +	5.6	293	6126	yes
6	blood	chrX:141518-141720	CR45473 -	5.6	379	7790	yes
7	roo	chrX:6005755-6005959	CR44498 +	5	381	9473	yes*
8	297	chrX:1082310-1082488	CR44779 +,CG3655 -	3.7	373	7368	yes
9	roo	chr3R:23470563-23470775	CG4374 -	4	367	9459	yes*
10	Stalker2	chr2L:312233-312444	Plc21C +	5.9	411	8661	no
11	HMS-Beagle	chr2R:544728-544940	CG40378 +	4.9	353	6882	yes*
12	Juan	chr3L:552782-552981	hipk +	3.3	344	4580	no
13	1360	chr3R:7492347-7492543	alpha-Est10 -	4.7	374	4480	no
14	297	chr2L:522270-522480	ush +	4.9	386	7381	no
15	roo	chr3L:957937-958157	Glut1 +	7.6	296	9388	no

Site. no.	T.E.	Locus	Nearest Gene	Coverage Ratio	Size with depletion	Size without depletion	PCR evidence
1	jockey	chr3R:24072059-24072628	4EHP -	4.5	150	341	yes
2	roo	chr2L:7343256-7350536	Wnt6 +	4.6	5757	7480	yes
3	pogo	chrX:3842276-3842647	ec +	5.8	355	541	yes
4	Tirant	chrX:6562758-6571399	CG34417 +	5.2	1240	8802	yes
5	roo	chr2R:21753020-21753663	not near genes	5.2	405	833	yes
6	opus	chr3L:15423693-15426700	not near genes	4.6	2642	3160	yes
7	Tirant	chr3L:3061219-3069958	CG32486 -	4.6	1350	8912	yes*
8	Stalker4	chr3L:7886449-7889129	CG32365 +	4.3	1107	2873	no
9	NOF	chr3L:7985303-7987783	nmo +	4.2	620	2650	no
10	Doc	chr3R:24927069-24932010	not near genes	5.7	395	5120	no

C

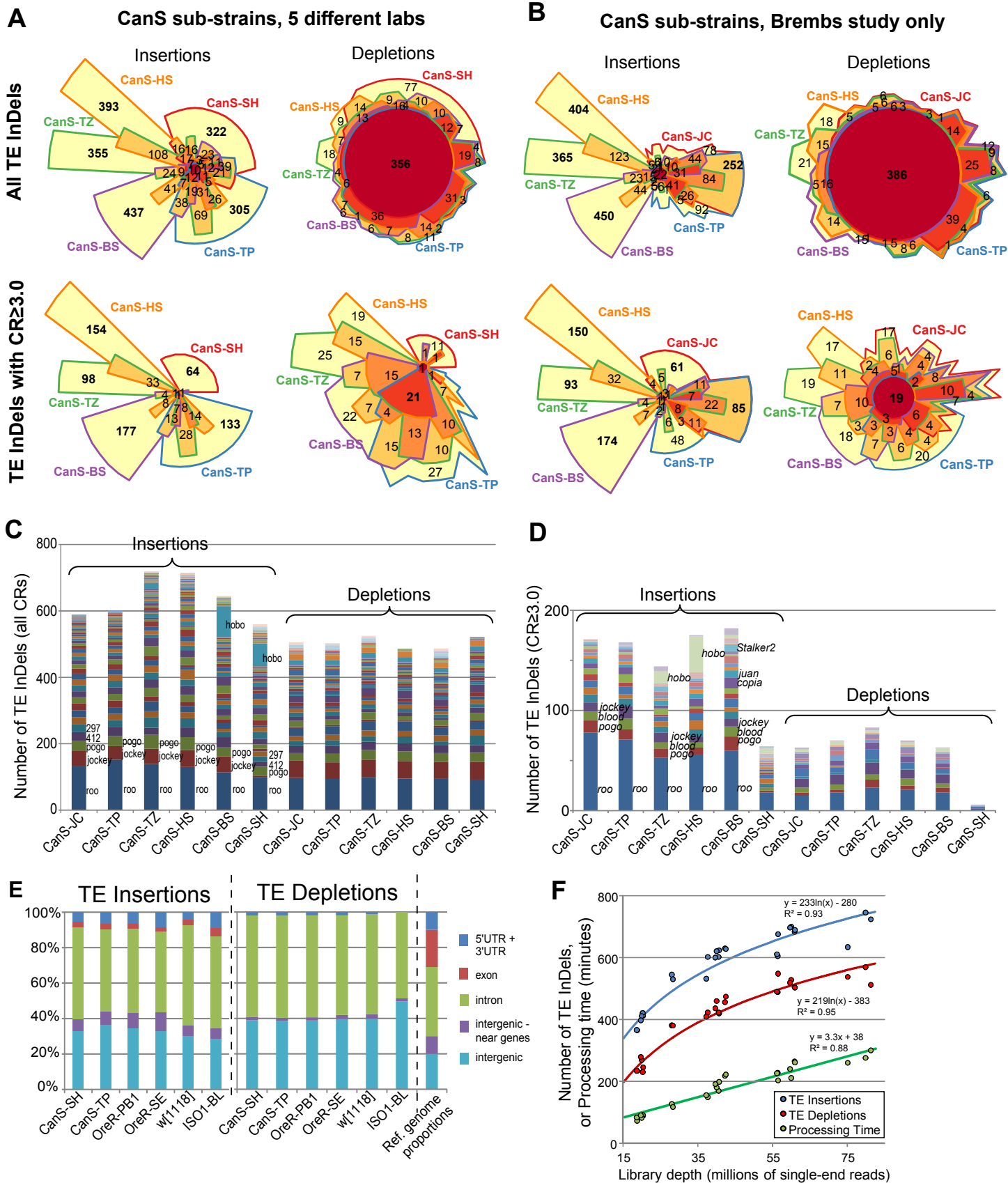


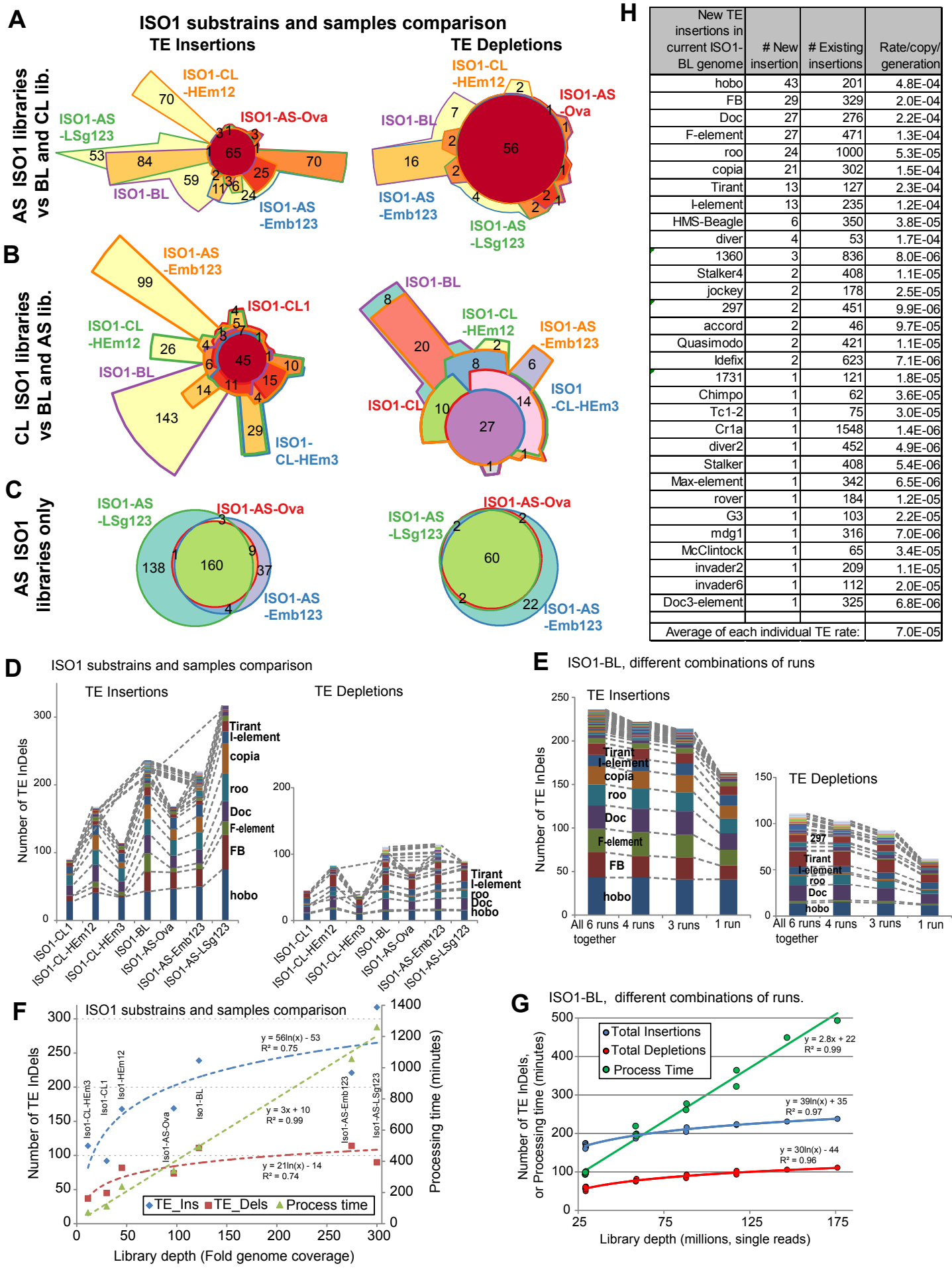
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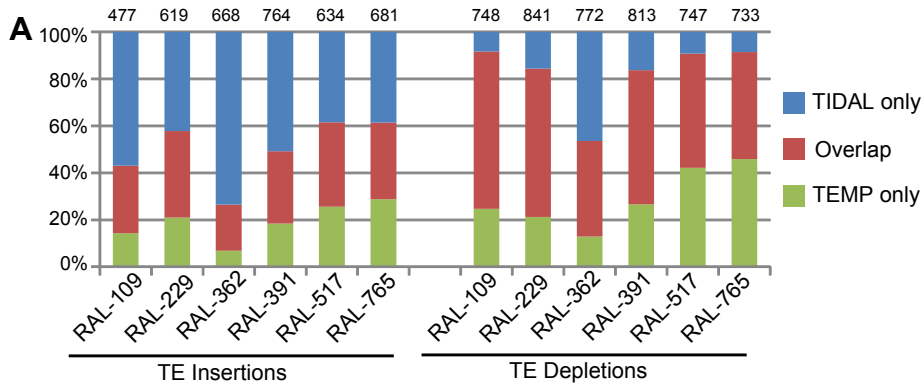


Site No.	Locus	Nearest gene	T.E.	C.R.	size w/o insertion	size with insertion	PCR validation
1	chr2R:19768184-19768307	not near genes	copia	4.5	295bp	5.1kb	yes
2	chr3L:4390337-4390468	slow	roo	4.5	330bp	9kb	yes
3	chr2R:8528862-8528983	mtt	I-element	4.4	273bp	7.8kb	yes
4	chr3R:29777197-29777247	kay	F-element	17.9	414bp	5kb	yes
5	chr2L:1068653-1068778	s	FB	4.2	517bp	2kb	yes
6	chrX:6542904-6543018	CG34417	I-element	4.3	501bp	7.9 kb	yes
7	chrX:19018636-19018748	CG43759	copia	4.7	469bp	5.6kb	yes
8	chr3R:5066592-5066727	not near genes	Tirant	4.4	515bp	9kb	yes
9	chrX:10556247-10556301	spri	Doc	5.7	363bp	5.3kb	yes
10	chr2L:5999659-5999785	lid	hobo	5.6	479bp	3.5kb	yes
11	chr2R:22786248-22786444	CG42260	hobo	5.3	523bp	3.5 kb	yes
12	chr2L:9485261-9485390	not near genes	hobo	4.2	514bp	3.5kb	no

Site No.	Locus	Nearest gene	T.E.	C.R.	size with depletion	size without depletion	PCR validation	
							Flank TE	Gene-T.E.
1	chr3L:2927813-2927871	shab+	Tirant	3.5	393bp	8.5kb	Yes	yes
2	chrX:11633392-11633445	Ptp10D+	297	2.9	497bp	7.3kb	Yes	No
3	chr2R:7608382-7608431	CG1358-	I-element	2.6	509bp	5.4kb	No	No
4	chr2R:8398189-8398240	CG2121-	Doc	3	502bp	5.0kb	Yes*	No
5	chr3R:31279353-31279405	not near genes	diver	2.5	436bp	6.4kb	Yes	yes
6	chrX:6335185-6335241	not near genes	Tirant	4.6	380bp	2.7kb	Yes	yes
7	chr3R:5045818-5045876	CR43635-	HMS-Beagle	4.4	448bp	7.3kb	No	yes*
8	chr3R:31691509-31691562	not near genes	Doc	4.3	449bp	5.0kb	Yes	yes*
9	chr3R:16756294-16756346	bx-d	diver	3.6	436 bp	6.4kb	Yes	yes*
10	chr2L:17951924-17951978	CR44398-	hobo	3.5	381bp	1.7kb	Yes	yes*
11	chr2L:12861671-12861728	not near genes	hobo	3.5	458bp	1.7kb	Yes	yes*
12	chr3L:8481746-8481802	CG43163-	roo	3.3	487bp	9.4kb	No	No

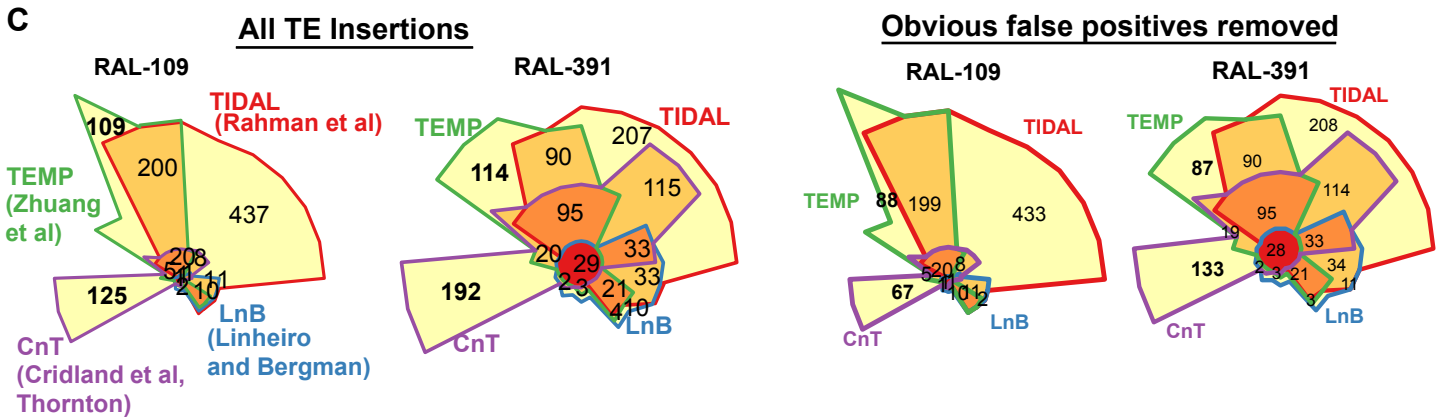
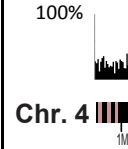




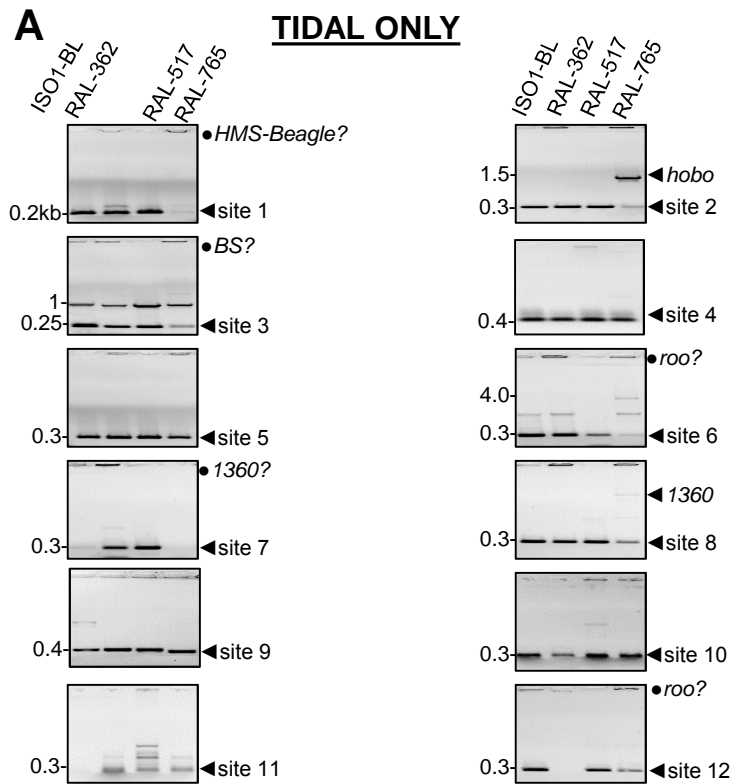


B

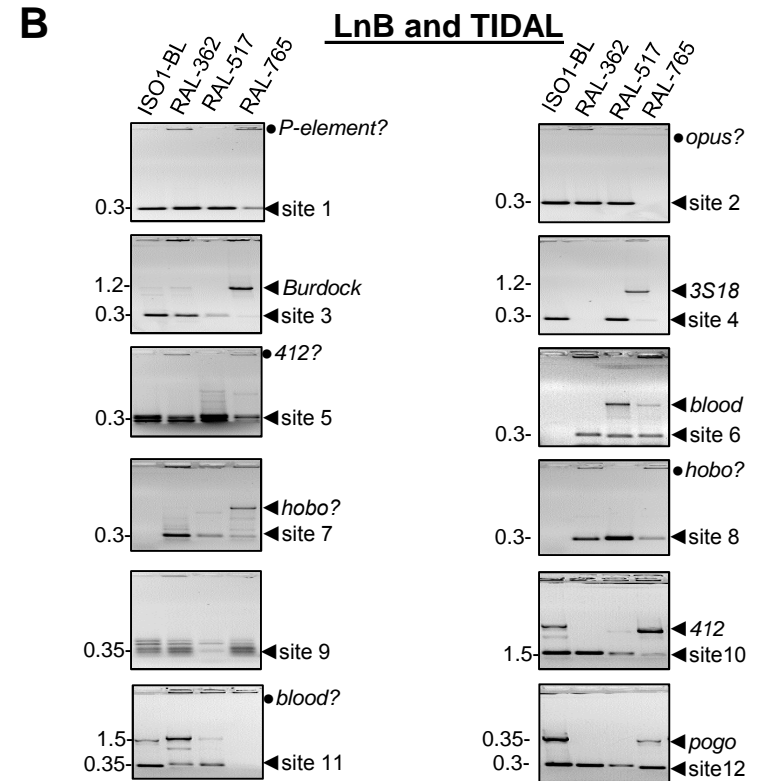
Program	TIDAL-Fly	TEMP	CnT	LnB
Citation	(Rahman et al, this study)	(Zhuang et al, 2014)	(Cridland et al, 2013)	(Linheiro and Bergman, 2012)
Pipeline summary	Bowtie1 aligner for split reads, Bowtie2 aligner for reference genome reads, and BLAT to enforce TE insertion read calls. Only single-end split reads processed for discordant mappings on both sides of InDel.	BWA aligner, full tracking of matched paired ends, comparison to reference supporting reads across strains and computes a population frequency.	BWA aligner, full tracking of matched paired ends, reconstruction of candidate InDels, use of BlastN for validation	BLAT aligner for split reads, first stage identifies discordant reads, second stage selects only unambiguous reads on both sides of TE insertion.
Distinctions	Optimization of split short-read approaches to balance sensitivity with specificity. Strain-specific TE landscapes in user-accessible outputs that include rich genomic annotations for Dm6/Rel6 genome release.	Versatility in application being applied to both <i>Drosophila</i> and human genomes. Strain-specific DGRP InDels genomic locations can be extracted.	Outputs and analyses focused on population genetics studies for <i>Drosophila</i> .	Identifies specific Target Site Duplication sequences. First split-read pipeline applied to both 454-Roche and Illumina datasets from DGRP fly genomes.
Limitations	Excludes any TE InDels in major heterochromatin, given high mapping ambiguity. Cannot automatically determine Target Site Duplication sequences. Currently only optimized for <i>Drosophila melanogaster</i> genomes.	Several program-specific predictions in <i>Drosophila</i> , some in heterochromatic regions, that have potential to be artifacts. Libraries with multiple read lengths can trip up program.	Many program-specific predictions, some in heterochromatic regions, that have potential to be artifacts. Outputs only available for libraries meeting read depth cutoff. TE Depletion data at broad population level, not strain level.	Pioneering pipeline sacrificed sensitivity by promoting strong specificity of BLAT algorithm. Only detects TE insertions, no capacity to detect TE depletions.



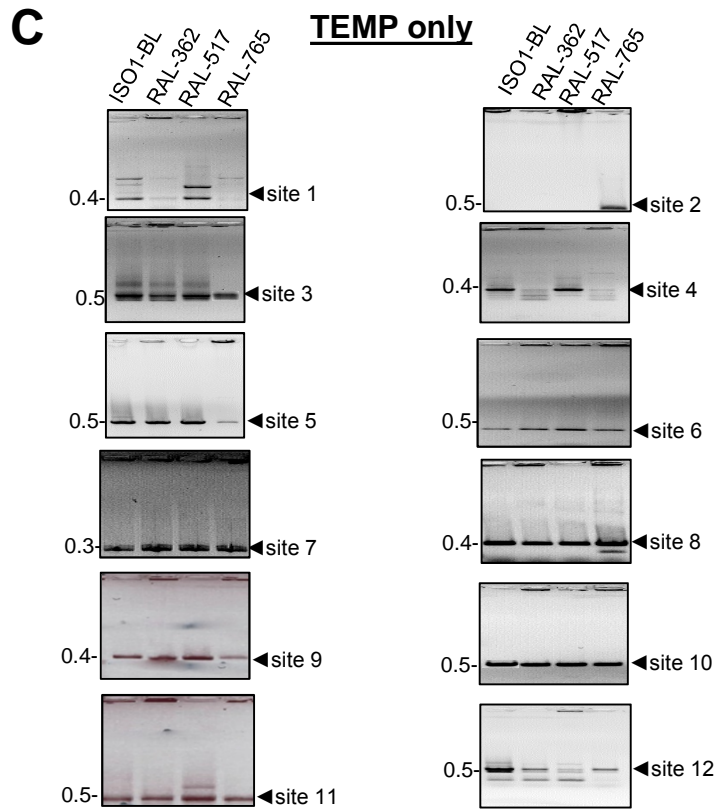
Rahman, et al., Figure S7, Part 1



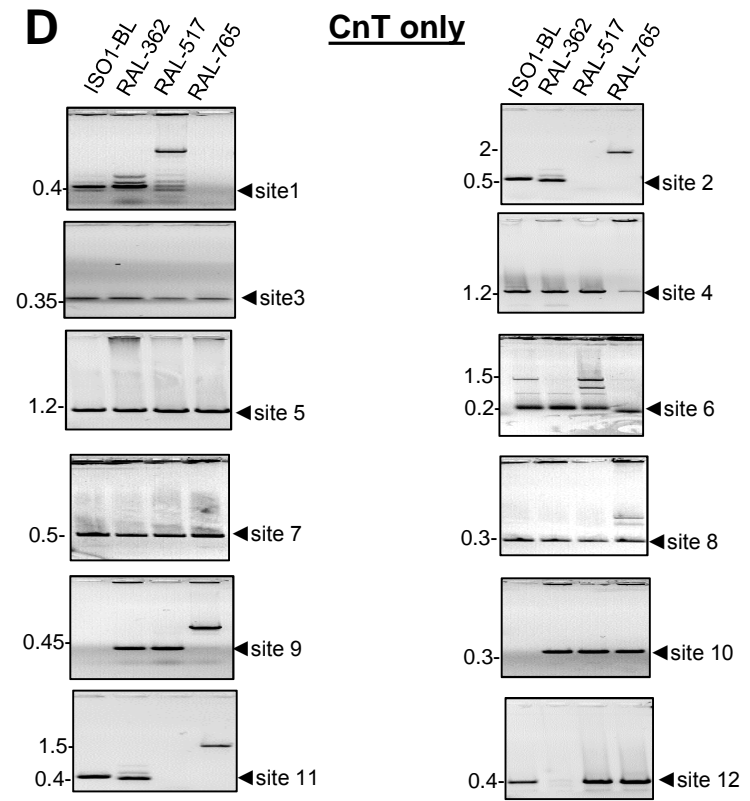
Site. No.	T.E.	Locus	Coverage Ratio	Size w/o insertion	Size with insertion	PCR evidence
1	HMS-Beagle	chr2L:8133670:-8133752	2.4	275	7575	yes
2	hobo	chr2L:19834994-19835061	4.7	354	3354	yes
3	BS	chr2L:12227998-12228146	5.3	274	5374	yes
4	pogo	chr2R:12581030-12581105	5	333	2533	no
5	mdg1	chr2R:7621371-7621430	4	328	7628	no
6	roo	chr3L:4481564-4481640	4.1	337	9337	yes
7	1360	chr3L:18394377-18394445	4.2	360	4760	yes
8	1360	chr3R:4885334-4885399	1.7	354	4754	yes
9	jockey	chr3R:20125023-20125087	2.4	360	5360	no
10	roo	chr3R:11089486-11089562	5.4	359	9359	no
11	hobo	chrX:7785488-7785556	3.3	342	3342	no
12	roo	chrX:15391856-15391929	4.1	341	9341	yes



Site. No.	T.E.	Locus	Coverage Ratio	Size w/o insertion	Size with insertion	PCR evidence
1	P-element	chr2L:267478-267547	4.4	314	3214	yes
2	opus	chr2L:1167146-1167232	2.6	386	8386	yes
3	Burdock	chr2L:20800099-20800248	5.8	329	6729	yes
4	3S18	chr2R:9380884-9380961	2.4	365	6465	yes
5	412	chr2R:9442941-9443015	3.9	331	7931	yes
6	blood	chr2R:11578561-11578638	5.6	372	5672	yes
7	hobo	chr3L:934796-934851	8.3	364	3364	yes
8	hobo	chr3L:22566716-22566793	4.3	367	3367	yes
9	Burdock	chr3R:18968019-18968094	3.8	375	6775	no
10	412	chr3R:30626323-30626403	5.2	379	7979	yes
11	blood	chrX:6487781-6487856	4.3	375	5675	yes
12	pogo	chrX:21399401-21399469	3.6	381	2581	yes

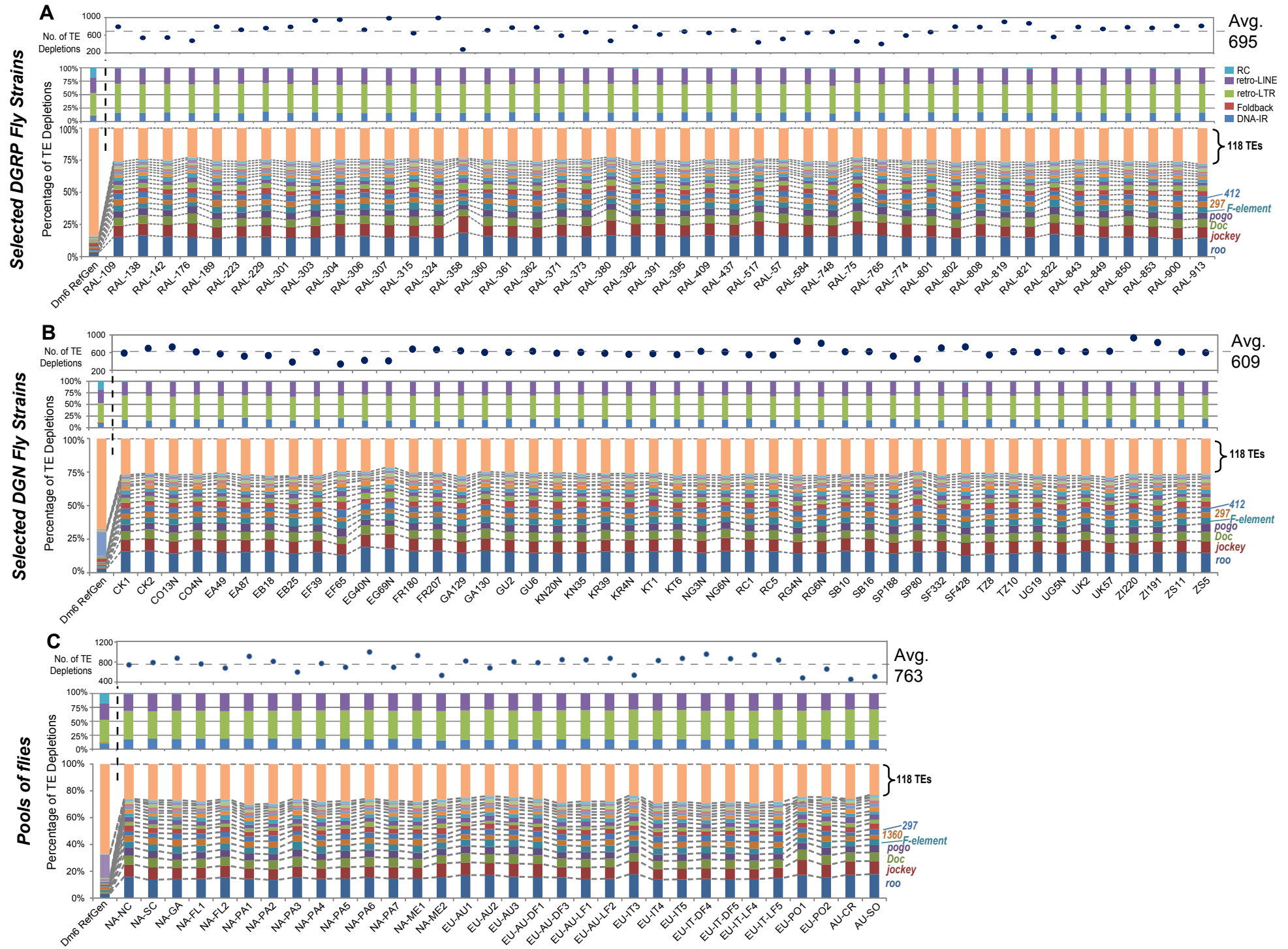


Site. No.	Locus	Amplicon Size	PCR evidence
1	chr2L:9850436-9850443	383	yes
2	chr2L:1558495-1558995	482	no
3	chr2R:5334166-5334666	494	yes
4	chr2R:2095477-2095485	405	no
5	chr3L:9571935-9572435	482	yes
6	chr3L:5056174-5056674	499	no
7	chr3R:5035704-5035739	296	no
8	chr3R:1211275-1211285	398	no
9	chrX:294866-294869	395	yes
10	chrX:5410656-5411156	488	no
11	chrY:203747-204247	487	no
12	chrY:1565254-1565753	645	no



Site. No.	Locus	Amplicon Size*	PCR evidence
1	chrX:4334105-4334327	376	yes
2	chrX:14001033-14007159	6092	yes
3	chr3R:7696150-7703338	7171	no
4	chr3R:14021702-14023463	1734	yes
5	chr3L:4361048-4361901	844	no
6	chr3L:17180645-17180660	394	no
7	chr2R:6948454-6948972	493	no
8	chr2R:13064762-13064861	357	yes
9	chr2L:1809645-1810122	447	yes
10	chr2L:9783398-9783415	394	no
11	chr4:180927-183823	2892	yes
12	chr4:999517-1001425	2008	no

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Figure S8.



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Figure S9.

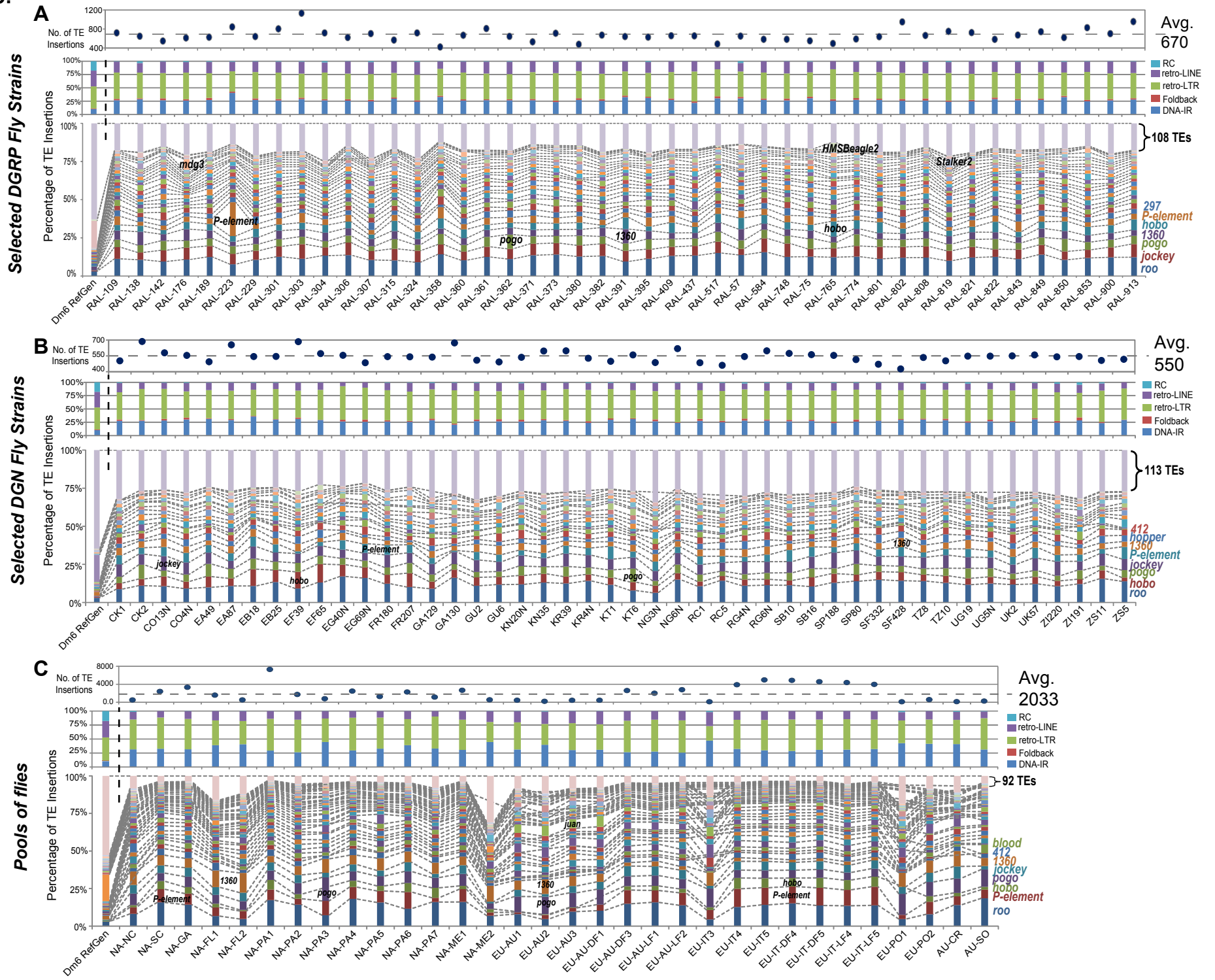


Table S1A. Drosophila Cell Lines in the TIDAL-Fly v1 database

Number	Official name	Tissue origin	Origin genotype	modENCODE Name	Library ID*	SRR Accession	Min Library Length	Library Size (M)	Read 1 length	Read 2 length	Latest Ref	Other accessions	
1	S2_C1	Embryo	Oregon R	n/a	S2c1	SRR1983913	150	33.8	150	na	This Study		
2	S2R+	Embryo	Oregon R	modENCODE_5492	S2R+	SRR497719	100	7.7	100	100	Lee et al. Genome Bio 2014	SRR497722	2x75
3	S1	Embryo	Oregon R	modENCODE_5491	S1	SRR497713	75	31.8	75	75	Lee et al. Genome Bio 2014		
4	S3	Embryo	Oregon R	modENCODE_5493	S3	SRR497721	100	11.4	100	100	Lee et al. Genome Bio 2014		
5	Sg4	Embryo	Oregon R	modENCODE_5494	Sg4	SRR497720	100	20.5	100	100	Lee et al. Genome Bio 2014		
6	W2	Wing disc	Oregon R	modENCODE_5495	W2	SRR497730	75	30.5	75	75	Lee et al. Genome Bio 2014		
7	CME W1 Cl.8+	L3 wing disc	Oregon R	modENCODE_5480	Cl.8	SRR497726	75	18.8	75	75	Lee et al. Genome Bio 2014		
8	CME L1	L3 leg disc	Oregon R	modENCODE_5489	L1	SRR497712	100	46.9	100	100	Lee et al. Genome Bio 2014		
9	OSS_C	Ovary	?	n/a	OSS_C	SRR1185816	150	33.7	150	na	Sytnikova et al. Genome Res 2014		
10	OSS_E	Ovary	?	n/a	OSS_E	SRR1185793	150	26.6	150	na	Sytnikova et al. Genome Res 2014		
11	OSC_C	Ovary	?	n/a	OSC_C	SRR609664	100	65.7	100	na	Sienski et al. Cell 2013		
12	OSC_E	Ovary	?	n/a	OSC_C	SRR1185771	150	24.6	150	na	Sytnikova et al. Genome Res 2014		
13	ML-DmD16-c3	L3 wing disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5482	D16-c3	SRR497710	100	36.6	100	100	Lee et al. Genome Bio 2014	SRR497715	2x75
14	ML-DmD17-c3	L3 haltere disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5483	D17-c3	SRR497725	100	43.4	100	100	Lee et al. Genome Bio 2014		
15	ML-DmD20-c2	L3 antennal disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5484	D20-c2	SRR497724	75	26.7	75	75	Lee et al. Genome Bio 2014		
16	ML-DmD20-c5	L3 antennal disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5490	D20-c5	SRR497723	100	12.5	100	100	Lee et al. Genome Bio 2014	SRR497718	2x75
17	ML-DmD4-c1	L3 mixed discs	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5486	D4-c1	SRR497716	75	36.5	75	75	Lee et al. Genome Bio 2014		
18	ML-DmD8	L3 wing disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5487	D8	SRR497729	75	29.4	75	75	Lee et al. Genome Bio 2014		
19	ML-DmD9	L3 wing disc	y ¹ v ¹ f ¹ mal ^{F1}	modENCODE_5488	D9	SRR497711	100	30.2	100	100	Lee et al. Genome Bio 2014	SRR497714	2x75
20	1182-4H	Embryo	mh	modENCODE_5479	1182-4H	SRR497717	100	21.1	100	100	Lee et al. Genome Bio 2014		
21	Mbn2	L3 hemocytes	l(2)mbn	modENCODE_5496	Mbn2	SRR497728	75	18.3	75	75	Lee et al. Genome Bio 2014		

Table S1B. Drosophila Lab Strains in the TIDAL-Fly v1 database

Number	Stock ID*	Stock Location	Genome Type	Library ID*	SRA Accession	Min Read Length	PE Reads (M)	Read Length 1	Read Length 2	Data Group
1	Oregon R	Terry Orr-Weaver	OregonR adult mix male female	OreR-TO1	SRR1538752	125	8.6	125	125	ModEncode
2	Oregon R	Terry Orr-Weaver	OregonR adult mix male female	OreR-TO2	SRR1538753	85	36.1	85	85	ModEncode
3	Oregon R	Sarah Elgin	OregonR adult mix male female	OreR-SE	SRR1538754	125	27.7	125	125	ModEncode
4	Oregon R	Peter Cherbas	OregonR adult mix male female	OreR-PB1	SRR1538751	85	38	125	85	ModEncode
5	Oregon R	Peter Cherbas	OregonR adult mix male female	OreR-PB2	SRR1538755	125	9.9	125	125	ModEncode
6	Oregon R	modENCODE_5497_Brent Graveley	OregonR adult virgin female	OreR-BG	SRR497727	75	19.9	75	75	ModEncode
7	Oregon-R	Dworkin lab	OregonR adult mix male female	OreR-Dw1	SRR1104304, SRR1104305	75	16.7,18	75	75	Dworkin Lab, Genetics paper
8	DarkFly	Fuse lab	OregonR-S mix	OreR-Dark	DRR001446	48	44.5	48	48	Izutsu Fuse PlosONE paper
9	Samarkand	Dworkin lab	Samarkand adult mix	Samar-Dw1	SRR1104160, SRR1104161	75	12.9	75	75	Dworkin Lab, Genetics paper
10	Canton-S substrain JC	Brembs lab, Julien Colomb from Tomas Preat	20 adult females	CanS-JC	ERR744541, ERR744542, ERR744543, ERR744544	100	8.8, 8.7, 8.7, 8.7	100	100	Brembs Lab, F1000 paper and this study
11	Canton-S substrain BS	Brembs lab, Bruno Swinderen from Ralf Greenspan	20 adult females	CanS-BS	ERR744549, ERR744550, ERR744551, ERR744552	100	7.1, 7.1, 7.2, 7.2	100	100	Brembs Lab, F1000 paper and this study
12	Canton-S substrain HS	Brembs lab, Henrike Scholz from Ulrike Herberlein	20 adult females	CanS-HS	ERR744545, ERR744546, ERR744547, ERR744548	100	10.3, 10.2, 10.3, 10.2	100	100	Brembs Lab, F1000 paper and this study
13	Canton-S substrain TP	Brembs lab, Tim Tully lab, Brandeis	20 adult females	CanS-TP	ERR744537, ERR744538, ERR744539, ERR744540	100	9.4, 9.4, 9.5, 9.6	100	100	Brembs Lab, F1000 paper and this study
14	Canton-S substrain TZ	Brembs lab, Troy Zars from Martin Heisenberg	20 adult females	CanS-TZ	ERR744533, ERR744534, ERR744535, ERR744536	100	10.2, 10.1, 10.0, 10.0	100	100	Brembs Lab, F1000 paper and this study
15	CanS-SH	Stowers Institute, Scott Hawley lab	Adult mix, iso-2,3,X	CanS-SH	SRR2044310	150	25.5	150	150	Public deposit
16	w[1118]	Stowers Institute, Scott Hawley lab	Adult mix, iso-2,3,X	w_1118	SRR2044312	150	27.2	150	150	Public deposit
17	ISO1 - BL	Bergman lab, ISO1 from Bloomington	10 adult males	ISO1-BL	ERR701706, ERR701707, ERR701708, ERR701709, ERR701710, ERR701711	100	15, 14.9, 14.9, 15.1, 14.8, 15.0	100	100	Gutzwiller et al, ArXiv
18	ISO1-CL1	Langley lab ISO1, mixed adults	mixed adult	ISO1-CL1	SRR350908	75	21.8	100	100	Langley et al (Begun), Genetics 2012
19	ISO1-CL-HEm3	Langley lab ISO1, haploid embryos	haploid embryos	ISO1-CL-HEm3	SRR306608	100	16.4	100	100	Langley et al (Begun), Genetics 2012
20	ISO1-CL-HEm12	Langley lab ISO1, haploid embryos	haploid embryos	ISO1-CL-HEm12	SRR097732, SRR306607	75	24.2, 19.7	75	75	Langley et al (Begun), Genetics 2012
21	ISO1-AS-Ova	Spradling lab ISO1, Ovaries	females	ISO1-AS-Ova	SRR1519054	100	71.5	100	100	Yarosh and Spradline, GenesDev 2014
22	ISO1-AS-Emb123	Spradling lab, ISO1 embryos	0-18hr embryos	ISO1-AS-Emb123	SRR1516224	100	81.8, 69.1, 50.5	100	100	Yarosh and Spradline, GenesDev 2014
23	ISO1-AS-LSg123	Spradling lab ISO1, L3 Salivary gland	L3 instar	ISO1-AS-LSg123	SRR1516221, SRR1516223, SRR1516225	100	62.9, 88.4, 68.6	100	100	Yarosh and Spradline, GenesDev 2014
24	OreR-AS-FC	Spradling lab OreR, stq10-14 follicle cells	females	OreR-AS-FC	SRR1519051	100	43.1	100	100	Yarosh and Spradline, GenesDev 2014

Table S1C. Drosophila Lab Strains in the TIDAL-Fly v1 database

Genomes previously examined in McKay et al, Nature 2012, and Huang et al, Genome Res, 2014

PHASE 1: First Set of Libraries Analyzed for the paper. The remaining libraries in Phase 2 below are also listed in the TIDAL-Fly database

Library	Stock ID*	Stock Location	Genome Type	SRA Accession	Library ID*	SRA Accession	Min Read Length	Read Length 1	Read Length 2	Data Group	Reads (M)	Raw Read Length:Read Number	Freeze	Bloomington Stock	Synonym	NCBI SRA	Reads	Mapped Reads	Mapped Coverage	Strains
1	DGRP_362	Bloomington-25187	inbred line, mix of	SRX006288	RAL-362	SRR846985	125	merged, use min length	125.0	DGRP-F1 + F2	56.3	45bp:18900352, 75bp:19241828, 125bp:19241828, 125bp:19241828	DGRP-F1 + F2	Blo	25187 RAL-362	SRX006288 and	70.4	70,371,466	39.4	1
2	DGRP_517	Bloomington-25197	inbred line, mix of	SRX024363	RAL-517	SRR933579	75	merged, use min length	75.0	DGRP-F1	59.8	45bp:75005702, 75bp:44531158	DGRP-F1	Blo	25197 RAL-517	SRX024363 and	115.8	115,773,424	37	2
3	DGRP_765	Bloomington-25204	inbred line, mix of	SRX006169	RAL-765	SRR933595	75	75.0	75.0	DGRP-F1	19.7	75bp:39893442	DGRP-F1	Blo	25204 RAL-765	SRX006169 and	38.1	38,107,800	16.3	3
4	DGRP_109	Bloomington-28140	inbred line, mix of	SRX020246	RAL-109_75b	SRR835219	75	merged, use min length	125.0	DGRP-F1	44.8	75bp:28899572, 125bp:60695744	DGRP-F1	Blo	28140 RAL-109	SRX020246 and	78.6	78,598,946	48.7	4
5	DGRP_109	Bloomington-28140	inbred line, mix of	SRX020246	RAL-109_125b	SRR835219	125	merged, use min length	125.0	DGRP-F1	44.8	75bp:28899572, 125bp:60695744	DGRP-F1	Blo	28140 RAL-109	SRX020246 and	78.6	78,598,946	48.7	4
6	DGRP_229	Bloomington-29653	inbred line, mix of	SRX021052	RAL-229_75b	SRR835221	75	merged, use min length	125.0	DGRP-F1	49.6	75bp:27785294, 125bp:71504164	DGRP-F1	Blo	29653 RAL-229	SRX021052 and	83.9	83,937,442	52.7	5
7	DGRP_229	Bloomington-29653	inbred line, mix of	SRX021052	RAL-229_125b	SRR835221	125	merged, use min length	125.0	DGRP-F1	49.6	75bp:27785294, 125bp:71504164	DGRP-F1	Blo	29653 RAL-229	SRX021052 and	83.9	83,937,442	52.7	5
8	DGRP_301	Bloomington-25175	inbred line, mix of	SRX005978	RAL-301_75b	SRR835223	75	merged, use min length	125.0	DGRP-F2	73.6	45bp:13099368, 64bp:10588312, 75bp:45373906	DGRP-F2	Blo	25175 RAL-301	SRX155995 and	133.5	133,504,636	71.7	6
9	DGRP_301	Bloomington-25175	inbred line, mix of	SRX005978	RAL-301_125b	SRR835223	125	merged, use min length	125.0	DGRP-F2	73.6	45bp:13099368, 64bp:10588312, 75bp:45373906	DGRP-F2	Blo	25175 RAL-301	SRX155995 and	133.5	133,504,636	71.7	6
10	DGRP_303	Bloomington-25176	inbred line, mix of	SRX005986	RAL-303_100b	SRR835228	100	merged, use min length	100.0	DGRP-F2	161.6	45bp:79536584, 64bp:4167822, 100bp:4167822, 100bp:4167822	DGRP-F2	Blo	25176 RAL-303	SRX155978 and	287.4	287,358,990	148	7
11	DGRP_303	Bloomington-25176	inbred line, mix of	SRX005986	RAL-303_125b	SRR835228	125	merged, use min length	100.0	DGRP-F2	161.6	45bp:79536584, 64bp:4167822, 100bp:4167822, 100bp:4167822	DGRP-F2	Blo	25176 RAL-303	SRX155978 and	287.4	287,358,990	148	7
12	DGRP_304	Bloomington-25177	inbred line, mix of	SRX005988	RAL-304_75b	SRR835236	75	merged, use min length	100.0	DGRP-F2	142.5	45bp:25081192, 64bp:7071260, 75bp:45373906	DGRP-F2	Blo	25177 RAL-304	SRX156009 and	252.1	252,108,056	133.6	8
13	DGRP_304	Bloomington-25177	inbred line, mix of	SRX005988	RAL-304_100b	SRR835236	100	merged, use min length	100.0	DGRP-F2	142.5	45bp:25081192, 64bp:7071260, 75bp:45373906	DGRP-F2	Blo	25177 RAL-304	SRX156009 and	252.1	252,108,056	133.6	8
14	DGRP_304	Bloomington-25177	inbred line, mix of	SRX005988	RAL-304_125b	SRR835236	125	merged, use min length	100.0	DGRP-F2	142.5	45bp:25081192, 64bp:7071260, 75bp:45373906	DGRP-F2	Blo	25177 RAL-304	SRX156009 and	252.1	252,108,056	133.6	8
15	DGRP_306	Bloomington-37525	inbred line, mix of	SRX006140	RAL-306_75b	SRR835242	75	merged, use min length	125.0	DGRP-F2	63.2	45bp:29368112, 64bp:8510324, 75bp:45373906	DGRP-F2	Blo	37525 RAL-306	SRX156007 and	100.4	100,446,332	50.7	9
16	DGRP_306	Bloomington-37525	inbred line, mix of	SRX006140	RAL-306_125b	SRR835242	125	merged, use min length	125.0	DGRP-F2	63.2	45bp:29368112, 64bp:8510324, 75bp:45373906	DGRP-F2	Blo	37525 RAL-306	SRX156007 and	100.4	100,446,332	50.7	9
17	DGRP_307	Bloomington-25179	inbred line, mix of	SRX006186	RAL-307_75b	SRR835247	75	merged, use min length	75.0	DGRP-F2	144.8	36bp:9641364, 45bp:17304248, 75bp:45373906	DGRP-F2	Blo	25179 RAL-307	SRX156012 and	252.2	252,236,309	142.1	10
18	DGRP_307	Bloomington-25179	inbred line, mix of	SRX006186	RAL-307_100b	SRR835247	100	merged, use min length	100.0	DGRP-F2	144.8	36bp:9641364, 45bp:17304248, 75bp:45373906	DGRP-F2	Blo	25179 RAL-307	SRX156012 and	252.2	252,236,309	142.1	10
19	DGRP_307	Bloomington-25179	inbred line, mix of	SRX006186	RAL-307_125b	SRR835247	125	merged, use min length	125.0	DGRP-F2	144.8	36bp:9641364, 45bp:17304248, 75bp:45373906	DGRP-F2	Blo	25179 RAL-307	SRX156012 and	252.2	252,236,309	142.1	10
20	DGRP_315	Bloomington-25181	inbred line, mix of	SRX006143	RAL-315_75b	SRR835252	75	merged, use min length	125.0	DGRP-F2	63.1	45bp:48481060, 75bp:20407822, 85bp:48481060	DGRP-F2	Blo	25181 RAL-315	SRX156010 and	114.4	114,404,766	51	11
21	DGRP_315	Bloomington-25181	inbred line, mix of	SRX006143	RAL-315_125b	SRR835252	125	merged, use min length	125.0	DGRP-F2	63.1	45bp:48481060, 75bp:20407822, 85bp:48481060	DGRP-F2	Blo	25181 RAL-315	SRX156010 and	114.4	114,404,766	51	11
22	DGRP_340	Bloomington-28174	inbred line, mix of	SRX156030	RAL-340_100b	SRR835939	100	merged, use min length	100.0	DGRP-F2	103.7	75bp:41788984, 100bp:165697712	DGRP-F2	Blo	28174 RAL-340	SRX156030	130.2	130,158,488	73.8	12
23	DGRP_371	Bloomington-28183	inbred line, mix of	SRX021257	RAL-371_75b	SRR835326	75	merged, use min length	125.0	DGRP-F1 + F2	42.6	75bp:30869276, 125bp:27187181	DGRP-F1 + F2	Blo	28183 RAL-371	SRX021257 and	78.6	78,638,404	42.5	13
24	DGRP_371	Bloomington-28183	inbred line, mix of	SRX021257	RAL-371_125b	SRR835326	125	merged, use min length	125.0	DGRP-F1 + F2	42.6	75bp:30869276, 125bp:27187181	DGRP-F1 + F2	Blo	28183 RAL-371	SRX021257 and	78.6	78,638,404	42.5	13
25	DGRP_373	Bloomington-28184	inbred line, mix of	SRX023425	RAL-373_95b	SRR835329	95	merged, use min length	125.0	DGRP-F1	42.8	95bp:40216244, 125bp:45373906	DGRP-F1	Blo	28184 RAL-373	SRX023425 and	76.7	76,690,462	48.3	14
26	DGRP_373	Bloomington-28184	inbred line, mix of	SRX023425	RAL-373_125b	SRR835329	125	merged, use min length	125.0	DGRP-F1	42.8	95bp:40216244, 125bp:45373906	DGRP-F1	Blo	28184 RAL-373	SRX023425 and	76.7	76,690,462	48.3	14
27	DGRP_409	Bloomington-28278	inbred line, mix of	SRX021243	RAL-409_95b	SRR835331	95	merged, use min length	125.0	DGRP-F1	38.7	95bp:3305170, 125bp:44122246	DGRP-F1	Blo	28278 RAL-409	SRX021243 and	55.1	55,099,676	35.7	15
28	DGRP_409	Bloomington-28278	inbred line, mix of	SRX021243	RAL-409_125b	SRR835331	125	merged, use min length	125.0	DGRP-F1	38.7	95bp:3305170, 125bp:44122246	DGRP-F1	Blo	28278 RAL-409	SRX021243 and	55.1	55,099,676	35.7	15
29	DGRP_584	Bloomington-28212	inbred line, mix of	SRX155987	RAL-584_95b	SRR835942	95	merged, use min length	125.0	DGRP-F2	70	95bp:93885100, 125bp:46038390	DGRP-F2	Blo	28212 RAL-584	SRX155987 and	79.7	79,663,962	49.4	16
30	DGRP_584	Bloomington-28212	inbred line, mix of	SRX155987	RAL-584_125b	SRR835942	125	merged, use min length	125.0	DGRP-F2	70	95bp:93885100, 125bp:46038390	DGRP-F2	Blo	28212 RAL-584	SRX155987 and	79.7	79,663,962	49.4	16
31	DGRP_748	Bloomington-28224	inbred line, mix of	SRX156019	RAL-748_95b	SRR835336	95	merged, use min length	125.0	DGRP-F2	43.7	95bp:36957084, 125bp:50455402	DGRP-F2	Blo	28224 RAL-748	SRX156019 and	57.4	57,410,828	38.3	17
32	DGRP_748	Bloomington-28224	inbred line, mix of	SRX156019	RAL-748_125b	SRR835336	125	merged, use min length	125.0	DGRP-F2	43.7	95bp:36957084, 125bp:50455402	DGRP-F2	Blo	28224 RAL-748	SRX156019 and	57.4	57,410,828	38.3	17
33	DGRP_801	Bloomington-28234	inbred line, mix of	SRX021391	RAL-801_95b	SRR835341	95	merged, use min length	125.0	DGRP-F1	43.9	95bp:32922146, 125bp:53899816	DGRP-F1	Blo	28234 RAL-801	SRX021391 and	59.2	59,280,892	38.4	18
34	DGRP_801	Bloomington-28234	inbred line, mix of	SRX021391	RAL-801_125b	SRR835341	125	merged, use min length	125.0	DGRP-F1	43.9	95bp:32922146, 125bp:53899816	DGRP-F1	Blo	28234 RAL-801	SRX021391 and	59.2	59,280,892	38.4	18
35	DGRP_802	Bloomington-28235	inbred line, mix of	SRX025318	RAL-802_95b	SRR835343	95	merged, use min length	125.0	DGRP-F1	47.1	95bp:27114342, 125bp:67142296	DGRP-F1	Blo	28235 RAL-802	SRX025318 and	78.6	78,579,930	52.4	19
36	DGRP_802	Bloomington-28235	inbred line, mix of	SRX025318	RAL-802_125b	SRR835343	125	merged, use min length	125.0	DGRP-F1	47.1	95bp:27114342, 125bp:67142296	DGRP-F1	Blo	28235 RAL-802	SRX025318 and	78.6	78,579,930	52.4	19
37	DGRP_808	Bloomington-28238	inbred line, mix of	SRX021402	RAL-808_75b	SRR835345	75	merged, use min length	125.0	DGRP-F1	53.8	75bp:44482188, 125bp:63083538	DGRP-F1	Blo	28238 RAL-808	SRX021402 and	83.0	82,954,992	49.3	20
38	DGRP_808	Bloomington-28238	inbred line, mix of	SRX021402	RAL-808_125b	SRR835345	125	merged, use min length	125.0	DGRP-F1	53.8	75bp:44482188, 125bp:63083538	DGRP-F1	Blo	28238 RAL-808	SRX021402 and	83.0	82,954,992	49.3	20
39	DGRP_821	Bloomington-28243	inbred line, mix of	SRX155991	RAL-821_100b	SRR835347	100	merged, use min length	100.0	DGRP-F2	108.2	100bp:132570414, 125bp:83747778	DGRP-F2	Blo	28243 RAL-821	SRX155990 and	179.3	179,277,520	112	21
40	DGRP_821	Bloomington-28243	inbred line, mix of	SRX155991	RAL-821_125b	SRR835347	125	merged, use min length	100.0	DGRP-F2	108.2	100bp:132570414, 125bp:83747778	DGRP-F2	Blo	28243 RAL-821	SRX155990 and	179.3	179,277,520	112	21
41	DGRP_853	Bloomington-28250	inbred line, mix of	SRX021491	RAL-853_110b	SRR835349	110	merged, use min length	125.0	DGRP-F2	55.3	110bp:42021476, 125bp:68611046	DGRP-F2	Blo	28250 RAL-853	SRX021491 and	69.8	69,801,922	48.9	22
42	DGRP_853	Bloomington-28250	inbred line, mix of	SRX021491	RAL-853_125b	SRR835349	125	merged, use min length	125.0	DGRP-F2	55.3	110bp:42021476, 125bp:68611046	DGRP-F2	Blo	28250 RAL-853	SRX021491 and	69.8	69,801,922	48.9	22
43	DGRP_900	Bloomington-28261	inbred line, mix of	SRX156023	RAL-900_95b	SRR846989	95	merged, use min length	125.0	DGRP-F2	47.6	95bp:30160598, 125bp:65136580	DGRP-F2	Blo	28261 RAL-900	SRX156023	77.4	77,355,512	52.3	23
44	DGRP_900	Bloomington-28261	inbred line, mix of	SRX156023	RAL-900_125b	SRR846989	125	merged, use min length	125.0	DGRP-F2	47.6	95bp:30								

69	DGRP_358	Bloomington-25185	inbred line, mix of	SRX006282, SR	RAL-358	SRR018574, SR	75.0	merged, use min length	75.0	DGRP-F1	6.8, 14.1	45bp:18011532, 75bp:27739857	DGRF1	Blc	25185	RAL-358	SRX006283 and	42.5	42,499,891	15.2	47
70	DGRP_399	Bloomington-25192	inbred line, mix of	SRX006153	RAL-399	SRR933575	75.0	merged, use min length	75.0	DGRP-F1	27.48	36bp:41011932, 75bp:14665138	DGRF1	Blc	25192	RAL-399	SRX006154 and	51.6	51,632,558	15.5	48
71	DGRP_313	Bloomington-25180	inbred line, mix of	SRX006277	RAL-313	SRR018519	75.0	single end only	75.0	DGRP-F1 + F2	14	36bp:9477876, 45bp:18165034, 75bp:5013814	DGRF1 + F2	Blc	25180	RAL-313	SRX006277, SR	39.1	39,060,649	11.7	49
72	DGRP_375	Bloomington-25188	inbred line, mix of	SRX006148	RAL-375	SRR933572	75.0	merged, use min length	75.0	DGRP-F1	51.8	55bp:52106222, 75bp:51413814	DGRF1	Blc	25188	RAL-375	SRX006150, SR	99.3	99,256,856	33.8	50
73	DGRP_555	Bloomington-25198	inbred line, mix of	SRX006159	RAL-555	SRR933580	75.0		75.0	DGRP-F1	25.1	75bp:50103810	DGRF1	Blc	25198	RAL-555	SRX006159	44.9	44,883,398	19.2	51
74	DGRP_705	Bloomington-25744	inbred line, mix of	SRX006162	RAL-705	SRR933585	75.0		75.0	DGRP-F1	23.5	75bp:47006608	DGRF1	Blc	25744	RAL-705	SRX006162	38.9	38,920,070	16.7	52
75	DGRP_707	Bloomington-25200	inbred line, mix of	SRX006163	RAL-707	SRR933586	75.0		75.0	DGRP-F1	23.5	75bp:46657404	DGRF1	Blc	25200	RAL-707	SRX006163	41.6	41,568,952	17.8	53
76	DGRP_712	Bloomington-25201	inbred line, mix of	SRX006164	RAL-712	SRR933587	75.0		75.0	DGRP-F1	22.3	75bp:44687888	DGRF1	Blc	25201	RAL-712	SRX006164	37.9	37,949,898	16.3	54
77	DGRP_714	Bloomington-25745	inbred line, mix of	SRX006165	RAL-714	SRR933588	75.0		75.0	DGRP-F1	21.1	75bp:42099222	DGRF1	Blc	25745	RAL-714	SRX006165 and	40.0	39,955,902	17.1	55
78	DGRP_732	Bloomington-25203	inbred line, mix of	SRX006167	RAL-732	SRR933591	75.0		75.0	DGRP-F1	21.1	75bp:42170344	DGRF1	Blc	25203	RAL-732	SRX006167	38.1	38,082,012	16.3	56
79	DGRP_379	Bloomington-25189	inbred line, mix of	SRX006293	RAL-379	SRR018583, SR	75.0	single end only	75.0	DGRP-F1	6.1, 12.4	45bp:19006690, 75bp:18496338	DGRF1	Blc	25189	RAL-379	SRX006293 and	34.0	34,014,707	11.4	57
80	DGRP_340	Bloomington-28174	inbred line, mix of	SRX156033	RAL-340_75b	SRR835939	75.0	merged, use min length	100.0	DGRP-F2	103.7	75bp:1788984, 100bp:16569712	DGRF2	Blc	28174	RAL-340	SRX156030	130.2	130,158,488	73.8	12

This entry repeatedly gen

PHASE 2: Additional DGRP Illumina-sequenced libraries compatible for TIDAL analysis loaded into TIDAL-Fly database but not part of analysis in paper.

Library	Stock ID*	Stock Location	Genome Type	SRA Accession	Library ID*	SRA Accession	Min Read Length	Read Length 1	Read Length 2	Data Group	Reads (M)	Raw Read Length:Read Number	Freeze	Bloomington Stock	Synonym	NCBI SRA	Reads	Mapped Reads	Mapped Coverage	Strains	
1	DGRP_365	Bloomington-25445	inbred line, mix of	SRX006290, SR	RAL-365	SRR018680, SR	75		75.0	DGRP-F1	10.1	45bp:18394996, 75bp:32783196	DGRF1	Blc	25445	RAL-365	SRX006291, SR	42.9	42,859,487	15.6	58
2	DGRP_852	Bloomington-25209	inbred line, mix of	SRX006304, SR	RAL-852	SRR018680	75		75.0	DGRP-F1	11.7	45bp:41788724, 75bp:59375261	DGRF1	Blc	25209	RAL-852	SRX006304 and	90.6	90,552,271	32.2	59
3	DGRP_730	Bloomington-25202	inbred line, mix of	SRX006308	RAL-730	SRR933590	75		75.0	DGRP-F1	38.7	75bp:38019145	DGRF1	Blc	25202	RAL-730	SRX006308	30.0	30,891,608	13.2	60
4	DGRP_738	Bloomington-28223	inbred line, mix of	SRX021383	RAL-738	SRR933593	75		75.0	DGRP-F1	37.9	75bp:75804598	DGRF1	Blc	28223	RAL-738	SRX021383	63.1	63,119,910	27.1	61
5	DGRP_737	Bloomington-28222	inbred line, mix of	SRX021384	RAL-737	SRR933592	75		75.0	DGRP-F1	37.4	75bp:74740132	DGRF1	Blc	28222	RAL-737	SRX021384	58.5	58,531,732	26.1	62
6	DGRP_757	Bloomington-28226	inbred line, mix of	SRX021385	RAL-757	SRR933594	75		75.0	DGRP-F1	37.2	75bp:74326240	DGRF1	Blc	28226	RAL-757	SRX021385	66.2	66,207,766	28.4	63
7	DGRP_727	Bloomington-28221	inbred line, mix of	SRX021382	RAL-727	SRR933589	75		75.0	DGRP-F1	36.9	75bp:73781476	DGRF1	Blc	28221	RAL-727	SRX021382	64.2	64,202,850	27.5	64
8	DGRP_897	Bloomington-28260	inbred line, mix of	SRX021387	RAL-897	SRR933601	75		75.0	DGRP-F1	35.4	75bp:70892788	DGRF1	Blc	28260	RAL-897	SRX021387	63.0	63,033,690	27	65
9	DGRP_332	Bloomington-28171	inbred line, mix of	SRX021095	RAL-332	SRR933569	75		75.0	DGRP-F1	33.8	75bp:65583082	DGRF1	Blc	28171	RAL-332	SRX021095	60.0	59,985,078	25.7	66
10	DGRP_181	Bloomington-28151	inbred line, mix of	SRX020912	RAL-181	SRR933563	75		75.0	DGRP-F1	32	75bp:64093862	DGRF1	Blc	28151	RAL-181	SRX020912	57.6	57,566,276	24.7	67
11	DGRP_325	Bloomington-28170	inbred line, mix of	SRX021793	RAL-325	SRR933568	75		75.0	DGRP-F1	31.5	75bp:31457046	DGRF1	Blc	28170	RAL-325	SRX021793	36.3	26,299,389	11.3	68
12	DGRP_381	Bloomington-28188	inbred line, mix of	SRX021112	RAL-381	SRR933573	75		75.0	DGRP-F1	27.2	75bp:54335852	DGRF1	Blc	28188	RAL-381	SRX021112	48.7	48,708,464	20.9	69
13	DGRP_153	Bloomington-28146	inbred line, mix of	SRX021514	RAL-153	SRR933562	75		75.0	DGRP-F1	26.8	75bp:26821499	DGRF1	Blc	28146	RAL-153	SRX021514	21.8	21,768,014	9.3	70
14	DGRP_352	Bloomington-28177	inbred line, mix of	SRX021101	RAL-352	SRR834516	75		75.0	DGRP-F1	22.5	75bp:44982388	DGRF1	Blc	28177	RAL-352	SRX021101	36.3	36,302,672	15.6	71
15	DGRP_882	Bloomington-28255	inbred line, mix of	SRX021496	RAL-882	SRR835067	75		75.0	DGRP-F1	22.4	75bp:44722324	DGRF1	Blc	28255	RAL-882	SRX021496	40.6	40,585,544	17.4	72
16	DGRP_879	Bloomington-28254	inbred line, mix of	SRX021494	RAL-879	SRR835066	75		75.0	DGRP-F1	21.7	75bp:43485194	DGRF1	Blc	28254	RAL-879	SRX021494	30.5	30,475,860	13.1	73
17	DGRP_805	Bloomington-28237	inbred line, mix of	SRX021400	RAL-805	SRR835095	75		75.0	DGRP-F1	21.6	75bp:43182102	DGRF1	Blc	28237	RAL-805	SRX021400	37.7	37,672,090	16.1	74
18	DGRP_356	Bloomington-28178	inbred line, mix of	SRX023833	RAL-356	SRR834537	75		75.0	DGRP-F1	21.5	75bp:42903612	DGRF1	Blc	28178	RAL-356	SRX023833	36.1	36,113,766	15.5	75
19	DGRP_884	Bloomington-28256	inbred line, mix of	SRX021498	RAL-884	SRR835068	75		75.0	DGRP-F1	21.3	75bp:42658114	DGRF1	Blc	28256	RAL-884	SRX021498	32.6	32,585,778	14	76
20	DGRP_890	Bloomington-28257	inbred line, mix of	SRX021499	RAL-890	SRR835071	75		75.0	DGRP-F1	21.0	75bp:41954706	DGRF1	Blc	28257	RAL-890	SRX021499	37.1	37,101,876	15.9	77
21	DGRP_861	Bloomington-28253	inbred line, mix of	SRX021493	RAL-861	SRR835065	75		75.0	DGRP-F1	20.6	75bp:41295320	DGRF1	Blc	28253	RAL-861	SRX021493	29.5	29,478,054	12.6	78
22	DGRP_83	Bloomington-28134	inbred line, mix of	SRX023456	RAL-83	SRR835058	75		75.0	DGRP-F1	20.5	75bp:41074070	DGRF1	Blc	28134	RAL-83	SRX023456	38.0	37,982,090	16.3	79
23	DGRP_491	Bloomington-28202	inbred line, mix of	SRX021268	RAL-491	SRR835035	75		75.0	DGRP-F1	20.6	75bp:40944392	DGRF1	Blc	28202	RAL-491	SRX021268	35.3	35,336,140	15.1	80
24	DGRP_761	Bloomington-28227	inbred line, mix of	SRX021386	RAL-761	SRR835088	75		75.0	DGRP-F1	20.4	75bp:40867250	DGRF1	Blc	28227	RAL-761	SRX021386	35.6	35,577,354	15.2	81
25	DGRP_149	Bloomington-28145	inbred line, mix of	SRX020760	RAL-149	SRR834508	75		75.0	DGRP-F1	20.3	75bp:40637646	DGRF1	Blc	28145	RAL-149	SRX020760	33.9	33,914,600	14.5	82
26	DGRP_535	Bloomington-28208	inbred line, mix of	SRX021293	RAL-535	SRR835046	75		75.0	DGRP-F1	20.1	75bp:40234802	DGRF1	Blc	28208	RAL-535	SRX021293	35.4	35,362,252	15.2	83
27	DGRP_776	Bloomington-28229	inbred line, mix of	SRX021387	RAL-776	SRR835099	75		75.0	DGRP-F1	19.9	75bp:39890986	DGRF1	Blc	28229	RAL-776	SRX021387	36.4	36,432,512	15.6	84
28	DGRP_787	Bloomington-28231	inbred line, mix of	SRX021388	RAL-787	SRR835091	75		75.0	DGRP-F1	19.9	75bp:39795416	DGRF1	Blc	28231	RAL-787	SRX021388	35.9	35,896,250	15.4	85
29	DGRP_136	Bloomington-28142	inbred line, mix of	SRX020753	RAL-136	SRR834542	75		75.0	DGRP-F1	19.5	75bp:38970964	DGRF1	Blc	28142	RAL-136	SRX020753	33.9	33,947,580	14.5	86
30	DGRP_318	Bloomington-28168	inbred line, mix of	SRX021082	RAL-318	SRR834507	75		75.0	DGRP-F1	19.5	75bp:38682636	DGRF1	Blc	28168	RAL-318	SRX021082	35.4	35,366,996	15.2	87
31	DGRP_804	Bloomington-28236	inbred line, mix of	SRX021399	RAL-804	SRR835094	75		75.0	DGRP-F1	19.5	75bp:38910810	DGRF1	Blc	28236	RAL-804	SRX021399	34.5	34,482,650	14.8	88
32	DGRP_812	Bloomington-28240	inbred line, mix of	SRX021419	RAL-812	SRR835052	75		75.0	DGRP-F1	19.4	75bp:38719004	DGRF1	Blc	28240	RAL-812	SRX021419	37.5	37,540,214	16.1	89
33	DGRP_796	Bloomington-28233	inbred line, mix of	SRX021390	RAL-796	SRR835093	75		75.0	DGRP-F1	19.3	75bp:38662002	DGRF1	Blc	28233	RAL-796	SRX021390	34.7	34,681,678	14.9	90
34	DGRP_509	Bloomington-28206	inbred line, mix of	SRX021273	RAL-509	SRR835041	75		75.0	DGRP-F1	19.0	75bp:38095912	DGRF1	Blc	28206	RAL-509	SRX021273	35.6	35,615,726	15.3	91
35	DGRP_818	Bloomington-28241	inbred line, mix of	SRX021478	RAL-818	SRR835053	75		75.0	DGRP-F1	18.8	75bp:37531016	DGRF1	Blc	28241	RAL-818	SRX021478	34.2	34,210,842	14.7	92
36	DGRP_859	Bloomington-25210	inbred line, mix of	SRX006176	RAL-859	SRR933600	75		75.0	DGRP-F1	18.5	75bp:36919488	DGRF1	Blc	25210	RAL-859	SRX006176	34.0	33,950,076	14.6	93
37	DGRP_810	Bloomington-28239	inbred line, mix of	SRX021418	RAL-810	SRR835051	75		75.0	DGRP-F1	18.5	75bp:36972402	DGRF1	Blc	28239	RAL-810	SRX021418	36.1	36,075,996	15.5	94
38	DGRP_783	Bloomington-28230	inbred line, mix of	SRX023455	RAL-783	SRR835090	75		75.0	DGRP-F1	18.3	75bp:36692434	DGRF1	Blc	28230	RAL-783	SRX023455	31.4	31,444,902	13.5	95
39	DGRP_45	Bloomington-28128	inbred line, mix of	SRX021261	RAL-45	SRR835032	75		75.0	DGRP-F1	18.2	75bp:36472946	DGRF1	Blc	28128	RAL-45	SRX021261	33.0	32,984,934	14.1	96
40	DGRP_59	Bloomington-28129	inbred line, mix of	SRX021327	RAL-59	SRR8															

73	DGRP_338	Bloomington-28173	inbred line, mix of	SRX021097	RAL-338	SRR834513	75	75	75	DGRP-F1	14.5	75bp:28907664	DGRF1	Blo	28173	RAL-338	SRX021097	26.0	25,964,076	11.1	126
74	DGRP_228	Bloomington-28157	inbred line, mix of	SRX021043	RAL-228	SRR834529	75	75	75	DGRP-F1	14.4	75bp:28874696	DGRF1	Blo	28157	RAL-228	SRX021043	27.3	27,339,700	11.7	127
75	DGRP_350	Bloomington-28176	inbred line, mix of	SRX021100	RAL-350	SRR834515	75	75	75	DGRP-F1	14.0	75bp:27970002	DGRF1	Blo	28176	RAL-350	SRX021100	25.4	25,355,594	10.9	128
76	DGRP_317	Bloomington-28167	inbred line, mix of	SRX021081	RAL-317	SRR834506	75	75	75	DGRP-F1	13.6	75bp:27246088	DGRF1	Blo	28167	RAL-317	SRX021081	23.3	23,252,944	10	129
77	DGRP_129	Bloomington-28141	inbred line, mix of	SRX020748	RAL-129	SRR834540	75	75	75	DGRP-F1	13.4	75bp:26898800	DGRF1	Blo	28141	RAL-129	SRX020748	25.8	25,797,252	11.1	130
78	DGRP_26	Bloomington-28123	inbred line, mix of	SRX021056	RAL-26	SRR933566	75	merged, use min length	75.0	DGRP-F1	18.4	44bp:4452211, 75bp:32432947	DGRF1	Blo	28123	RAL-26	SRX021056	65.8	35,642,606	14.5	131
79	DGRP_208	Bloomington-25174	inbred line, mix of	SRX005977	RAL-208	SRR933564	75	merged, use min length	75.0	DGRP-F1 + F2	36.3	45bp:11112096, 64bp:8693462, 75bp:25174	DGRF1 + F2	Blo	25174	RAL-208	SRX005977	69.8	69,801,276	27.5	132
80	DGRP_237	Bloomington-28160	inbred line, mix of	SRX023423	RAL-237	SRR933565	75	merged, use min length	75.0	DGRP-F1	29.1	44bp:15879498, 75bp:34500267	DGRF1	Blo	28160	RAL-237	SRX023423 and	45.0	44,995,628	16.7	133
81	DGRP_28	Bloomington-28124	inbred line, mix of	SRX021783	RAL-28	SRR933567	75	merged, use min length	75.0	DGRP-F1	26.4	44bp:15469056, 75bp:26422488	DGRF1	Blo	28124	RAL-28	SRX021783 and	39.1	39,097,863	14.1	134
82	DGRP_41	Bloomington-28126	inbred line, mix of	SRX021791	RAL-41	SRR933576	75	merged, use min length	75.0	DGRP-F1	24.4	44bp:14055721, 75bp:24438432	DGRF1	Blo	28126	RAL-41	SRX021791 and	36.1	36,082,067	13.1	135
83	DGRP_639	Bloomington-25199	inbred line, mix of	SRX006161	RAL-639	SRR933582	75	75.0	75.0	DGRP-F1	21.1	75bp:42120400	DGRF1	Blo	25199	RAL-639	SRX006161 and	39.0	39,197,668	16.7	136
84	DGRP_799	Bloomington-25207	inbred line, mix of	SRX006173	RAL-799	SRR933597	75	75.0	75.0	DGRP-F1	20.7	75bp:41386692	DGRF1	Blo	25207	RAL-799	SRX006173 and	38.9	38,942,298	16.7	137
85	DGRP_386	Bloomington-28192	inbred line, mix of	SRX021798	RAL-386	SRR933574	75	merged, use min length	75.0	DGRP-F1	20.5	44bp:11122819, 75bp:20778304	DGRF1	Blo	28192	RAL-386	SRX021798 and	29.6	29,626,175	10.8	138
86	DGRP_820	Bloomington-25208	inbred line, mix of	SRX006174	RAL-820	SRR933598	75	75.0	75.0	DGRP-F1	18.8	75bp:37666476	DGRF1	Blo	25208	RAL-820	SRX006174 and	33.9	33,910,170	14.5	139

PHASE 3: Remaining DGRP Illumina-sequenced libraries compatible for TIDAL analysis to be loaded into TIDAL-Fly database.

87	DGRP_359	Bloomington-28179	inbred line, mix of	SRX023424	RAL-359	SRR834546	95	95.0	95.0	DGRP-F1	18.6	95bp:37271884	DGRF1	Blo	28179	RAL-359	SRX023424	37.3	37,271,884	20.2	
88	DGRP_589	Bloomington-28213	inbred line, mix of	SRX023837	RAL-589	SRR060821	75	75.0	75.0	DGRP-F1	16.5	75bp:32998374	DGRF1	Blo	28213	RAL-589	SRX023837	190.1	190,072,852	104.4	
89	DGRP_40	Bloomington-29651	inbred line, mix of	SRX021235	RAL-40	SRR835025	95	95	95	DGRP-F1	34.5	95bp:69063428	DGRF1	Blo	29651	RAL-40	SRX021235	61.3	61,345,170	33.3	
90	DGRP_321	Bloomington-29655	inbred line, mix of	SRX021094	RAL-321	SRR834511	95	95	95	DGRP-F1	33.7	95bp:67314152	DGRF1	Blo	29655	RAL-321	SRX021094	61.7	61,687,556	33.5	
91	DGRP_443	Bloomington-28199	inbred line, mix of	SRX021260	RAL-443	SRR835031	95	95	95	DGRP-F1	28.8	95bp:57567568	DGRF1	Blo	28199	RAL-443	SRX021260	52.5	52,492,412	28.5	
92	DGRP_38	Bloomington-28125	inbred line, mix of	SRX025317	RAL-38	SRR834541	95	95	95	DGRP-F1	28.1	95bp:56154204	DGRF1	Blo	28125	RAL-38	SRX025317	51.6	51,612,838	28	
93	DGRP_320	Bloomington-29654	inbred line, mix of	SRX021063	RAL-320	SRR834510	95	95	95	DGRP-F1	25.9	95bp:51875680	DGRF1	Blo	29654	RAL-320	SRX021063	44.5	44,510,214	24.2	
94	DGRP_406	Bloomington-29657	inbred line, mix of	SRX021254	RAL-406	SRR835024	95	95	95	DGRP-F1	25.9	95bp:51821248	DGRF1	Blo	29657	RAL-406	SRX021254	46.0	46,001,604	25	
95	DGRP_392	Bloomington-28194	inbred line, mix of	SRX021157	RAL-392	SRR834520	95	95	95	DGRP-F1	25.8	95bp:51156880	DGRF1	Blo	28194	RAL-392	SRX021157	42.8	42,803,392	23.2	
96	DGRP_405	Bloomington-29656	inbred line, mix of	SRX021242	RAL-405	SRR835023	95	95	95	DGRP-F1	25.0	95bp:50080536	DGRF1	Blo	29656	RAL-405	SRX021242	42.2	42,196,622	22.9	
97	DGRP_461	Bloomington-28200	inbred line, mix of	SRX021262	RAL-461	SRR835033	95	95	95	DGRP-F1	24.7	95bp:49324528	DGRF1	Blo	28200	RAL-461	SRX021262	40.4	40,407,678	21.9	
98	DGRP_177	Bloomington-28150	inbred line, mix of	SRX021026	RAL-177	SRR834547	95	95	95	DGRP-F1	24.6	95bp:49114764	DGRF1	Blo	28150	RAL-177	SRX021026	45.3	45,259,994	24.6	
99	DGRP_837	Bloomington-28246	inbred line, mix of	SRX021479	RAL-837	SRR835039	95	95	95	DGRP-F1	23.2	95bp:46411536	DGRF1	Blo	28246	RAL-837	SRX021479	38.0	38,040,748	20.7	
100	DGRP_892	Bloomington-28258	inbred line, mix of	SRX023838	RAL-892	SRR835072	95	95	95	DGRP-F1	22.9	95bp:45702226	DGRF1	Blo	28258	RAL-892	SRX023838	37.8	37,797,872	20.5	
101	DGRP_439	Bloomington-29658	inbred line, mix of	SRX021244	RAL-439	SRR835028	95	95	95	DGRP-F1	22.4	95bp:44762436	DGRF1	Blo	29658	RAL-439	SRX021244	37.5	37,522,394	20.4	
102	DGRP_492	Bloomington-28203	inbred line, mix of	SRX021270	RAL-492	SRR835036	95	95	95	DGRP-F1	22.3	95bp:44803012	DGRF1	Blo	28203	RAL-492	SRX021270	40.7	40,704,078	22.1	
103	DGRP_502	Bloomington-28204	inbred line, mix of	SRX021271	RAL-502	SRR835038	95	95	95	DGRP-F1	22.2	95bp:44336646	DGRF1	Blo	28204	RAL-502	SRX021271	40.0	39,968,920	21.7	
104	DGRP_370	Bloomington-28182	inbred line, mix of	SRX021104	RAL-370	SRR834539	95	95	95	DGRP-F1	21.9	95bp:43793604	DGRF1	Blo	28182	RAL-370	SRX021104	38.4	38,408,446	20.9	
105	DGRP_377	Bloomington-28186	inbred line, mix of	SRX023834	RAL-377	SRR834543	95	95	95	DGRP-F1	21.9	95bp:43796182	DGRF1	Blo	28186	RAL-377	SRX023834	40.2	40,225,994	21.8	
106	DGRP_426	Bloomington-28196	inbred line, mix of	SRX021245	RAL-426	SRR835026	95	95	95	DGRP-F1	21.9	95bp:43746634	DGRF1	Blo	28196	RAL-426	SRX021245	38.9	38,928,098	21.1	
107	DGRP_887	Bloomington-28279	inbred line, mix of	SRX021527	RAL-887	SRR835069	95	95	95	DGRP-F1	21.8	95bp:43595728	DGRF1	Blo	28279	RAL-887	SRX021527	35.9	35,939,248	19.5	
108	DGRP_440	Bloomington-28197	inbred line, mix of	SRX021246	RAL-440	SRR835029	95	95	95	DGRP-F1	21.6	95bp:43161850	DGRF1	Blo	28197	RAL-440	SRX021246	31.7	31,659,420	17.2	
109	DGRP_513	Bloomington-29659	inbred line, mix of	SRX021282	RAL-513	SRR835042	95	95	95	DGRP-F1	21.3	95bp:42640722	DGRF1	Blo	29659	RAL-513	SRX021282	36.0	36,025,830	19.6	
110	DGRP_508	Bloomington-28205	inbred line, mix of	SRX021272	RAL-508	SRR835040	95	95	95	DGRP-F1	21.2	95bp:42338556	DGRF1	Blo	28205	RAL-508	SRX021272	39.1	39,078,690	21.2	
111	DGRP_441	Bloomington-28198	inbred line, mix of	SRX023835	RAL-441	SRR835030	95	95	95	DGRP-F1	21.1	95bp:42278010	DGRF1	Blo	28198	RAL-441	SRX023835	34.4	34,448,902	18.7	
112	DGRP_531	Bloomington-28207	inbred line, mix of	SRX021290	RAL-531	SRR835045	95	95	95	DGRP-F1	20.8	95bp:41560152	DGRF1	Blo	28207	RAL-531	SRX021290	32.9	32,916,204	17.9	
113	DGRP_383	Bloomington-28190	inbred line, mix of	SRX021113	RAL-383	SRR834554	95	95	95	DGRP-F1	19.9	95bp:39897030	DGRF1	Blo	28190	RAL-383	SRX021113	35.1	35,149,446	19.1	
114	DGRP_235	Bloomington-28275	inbred line, mix of	SRX021053	RAL-235	SRR834531	95	95	95	DGRP-F1	19.1	95bp:38296004	DGRF1	Blo	28275	RAL-235	SRX021053	33.8	33,829,434	18.4	
115	DGRP_42	Bloomington-28127	inbred line, mix of	SRX021255	RAL-42	SRR835027	95	95	95	DGRP-F1	18.6	95bp:37186556	DGRF1	Blo	28127	RAL-42	SRX021255	37.2	37,186,556	20.2	
116	DGRP_21	Bloomington-28122	inbred line, mix of	SRX021040	RAL-21	SRR834526	95	95	95	DGRP-F1	18.5	95bp:37046984	DGRF1	Blo	28122	RAL-21	SRX021040	29.2	29,159,002	15.8	
117	DGRP_907	Bloomington-28262	inbred line, mix of	SRX021500	RAL-907	SRR835074	95	95	95	DGRP-F1	18.2	95bp:36385056	DGRF1	Blo	28262	RAL-907	SRX021500	32.3	32,273,788	17.5	
118	DGRP_790	Bloomington-28232	inbred line, mix of	SRX021389	RAL-790	SRR835092	95	95	95	DGRP-F1	17.8	95bp:35620658	DGRF1	Blo	28232	RAL-790	SRX021389	31.3	31,287,054	17	
119	DGRP_894	Bloomington-28259	inbred line, mix of	SRX021528	RAL-894	SRR835073	95	95	95	DGRP-F1	17.8	95bp:35128536	DGRF1	Blo	28259	RAL-894	SRX021528	30.9	30,860,088	16.8	
120	DGRP_832	Bloomington-28245	inbred line, mix of	SRX021477	RAL-832	SRR835057	95	95	95	DGRP-F1	16.9	95bp:33770198	DGRF1	Blo	28245	RAL-832	SRX021477	26.0	26,008,378	14.1	
121	DGRP_908	Bloomington-28263	inbred line, mix of	SRX021501	RAL-908	SRR835075	95	95	95	DGRP-F1	16.8	95bp:39111536	DGRF1	Blo	28263	RAL-908	SRX021501	36.7	36,702,788	19.9	
122	DGRP_911	Bloomington-28264	inbred line, mix of	SRX021502	RAL-911	SRR835076	95	95	95	DGRP-F1	16.8	95bp:33571736	DGRF1	Blo	28264	RAL-911	SRX021502	26.3	26,331,524	14.3	
123	DGRP_703	Bloomington-28218	inbred line, mix of	SRX021508	RAL-703	SRR835084	95	95	95	DGRP-F1	16.5	95bp:32953564	DGRF1	Blo	28218	RAL-703	SRX021508	26.3	26,272,930	14.3	
124	DGRP_385	Bloomington-28191	inbred line, mix of	SRX159098	RAL-385	SRR834518	95	95	95	DGRP-F2	14.2	95bp:28408672	DGRF2	Blo	28191	RAL-385	SRX159098	21.0	20,956,926	11.4	
125	DGRP_374	Bloomington-28185	inbred line, mix of	SRX023427	RAL-374	SRR835103	95	95	95	DGRP-F1	13.9	95bp:27645755	DGRF1	Blo	28185	RAL-374	SRX023427	24.7	24,704,590	13.4	

Table S1D. Drosophila Genome Nexus Strains in the TIDAL-Fly v1 database

Genomes previously examined in Lack et al (Pool lab), Genetics 2015

PHASE 1: First Set of Libraries Analyzed for the paper. The remaining libraries in Phase 2 below are also listed in the TIDAL-Fly database

	Stock ID*	Stock Location	Genome Type	SRA Accession	Library ID*	SRA Accession	Min Read Length	Reads (M)	Read Length 1	Read Length 2	Data Group	Focal Genome Repr	Coverage**	Mean Depth**
1	CK1	Langley lab	haploid_embryo	SRX058145	CK1_1-HE	SRR189038	75	35.0	76	76	DPGP2	X,2L,2R,3L,3R	110,870,215	39.4
2	CK2	Langley lab	haploid_embryo	SRX058146	CK2_1-HE	SRR189040	145	20.6	146	146	DPGP2	X,2L,2R,3L,3R	111,567,582	44.7
3	CO13N	Pool Lab	haploid_embryo	SRX058151	CO13N_1-HE	SRR189045	145	18.1	146	146	DPGP2	X,2L,2R,3L,3R	111,264,202	39.8
4	CO15N	Pool Lab	haploid_embryo	SRX058153	CO15N_1-HE	SRR189047	75	38.2	76	76	DPGP2	X,2L,2R,3L,3R	111,058,052	44.2
5	CO4N	Pool Lab	haploid_embryo	SRX058156	CO4N_1-HE	SRR189050	75	32.8	76	76	DPGP2	X,2L,2R,3L,3R	111,025,671	37.7
6	EA119	Pool Lab	haploid_embryo	SRX791698	EA119_1-HE	SRR1686794	100	16.6	100	100	AGES	X,2L,2R,3L,3R	110,802,511	23.9
7	EA49	Pool Lab	haploid_embryo	SRX791713	EA49_1-HE	SRR1686797	100	13.0	100	100	AGES	X,2L,2R,3L,3R	110,446,851	18.2
8	EA87	Pool Lab	haploid_embryo	SRX791850	EA87_1-HE	SRR1686966	100	27.6	100	100	AGES	X,2L,2R,3L,3R	111,259,464	38.9
9	EB148	Langley lab	haploid_embryo	SRX791858	EB148_1-HE	SRR1686971	100	19.1	100	100	AGES	X,2L,2R,3L,3R	110,799,356	27.4
10	EB18	Langley lab	haploid_embryo	SRX792309	EB18_1-HE	SRR1687447	100	16.5	100	100	AGES	X,2L,2R,3L,3R	110,159,072	22.7
11	EB25	Langley lab	haploid_embryo	SRX792329	EB25_1-HE	SRR1687462	100	15.6	100	100	AGES	X,2L,2R,3L,3R	103,098,821	19.4
12	EF39	Pool lab	haploid_embryo	SRX792510	EF39_1-HE	SRR1687668	100	17.7	100	100	AGES	X,2L,2R,3L,3R	110,937,745	24.9
13	EF65	Pool lab	haploid_embryo	SRX792606	EF65_1-HE	SRR1687770	100	12.2	100	100	AGES	X,2L,2R,3L,3R	107,539,051	17.1
14	EF78	Pool lab	haploid_embryo	SRX792639	EF78_1-HE	SRR1687793	100	16.8	100	100	AGES	X,2L,2R,3L,3R	110,871,321	23.8
15	EG40N	Pool lab	inbred_line	SRX792675	EG40N	SRR1687832	100	10.8	100	100	AGES	X,2R	25,659,426	14.3
16	EG69N	Pool lab	inbred_line	SRX793022	EG69N	SRR1688188	100	10.2	100	100	AGES	X,2L,2R,3R	73,335,770	13.6
17	EG73N	Pool lab	inbred_line	SRX793046	EG73N	SRR1688222	100	10.3	100	100	AGES	X,2L,2R,3L,3R	105,554,844	13.8
18	FR180	Pool Lab	haploid_embryo	SRX058184	FR180_2-HE	SRR189090	145	19.1	146	146	DPGP2	X,2L,2R,3L,3R	112,084,373	42.3
19	FR207	Pool Lab	haploid_embryo	SRX058185	FR207_2-HE	SRR189091	145	18.1	146	146	DPGP2	X,2L,2R,3L,3R	112,168,144	38.9
20	FR229	Pool Lab	haploid_embryo	SRX058187	FR229_2-HE	SRR189093	145	19.1	146	146	DPGP2	X,2L,2R,3L,3R	112,159,960	40.6
21	GA129	Pool lab	haploid_embryo	SRX058193	GA129_1-HE	SRR189101	75	41.4	76	76	DPGP2	X,2L,2R,3L,3R	111,099,834	47.9
22	GA130	Pool lab	haploid_embryo	SRX058194	GA130_1-HE	SRR189102	75	43.4	76	76	DPGP2	X,2L,2R,3L,3R	111,771,726	47.6
23	GA141	Pool lab	haploid_embryo	SRX058196	GA141_1-HE	SRR189105	75	40.7	76	76	DPGP2	X,2L,2R,3L,3R	111,146,499	45.1
24	GU10	Langley lab	haploid_embryo	SRX058205	GU10_1-HE	SRR189114	75	33.2	76	76	DPGP2	X,2L,2R,3L,3R	110,887,105	38.9
25	GU2	Langley lab	haploid_embryo	SRX058207	GU2_1-HE	SRR189117	75	33.0	76	76	DPGP2	X,2L,2R,3L,3R	110,886,266	38.4
26	GU6	Langley lab	haploid_embryo	SRX058209	GU6_1-HE	SRR189120	75	33.0	76	76	DPGP2	X,2L,2R,3L,3R	110,933,340	38.1
27	KN133N	Langley lab	haploid_embryo	SRX058256	KN133N_1-HE	SRR189242	75	30.1	76	76	DPGP2	X,2L,2R,3L,3R	111,123,747	35.0
28	KN20N	Langley lab	haploid_embryo	SRX058253	KN20N_1-HE	SRR189239	75	32.0	76	76	DPGP2	X,2L,2R,3L,3R	110,974,588	37.6
29	KN35	Langley lab	haploid_embryo	SRX058258	KN35_1-HE	SRR189245	75	30.2	76	76	DPGP2	X,2L,2R,3L,3R	111,066,184	34.3
30	KR39	Langley lab	haploid_embryo	SRX058267	KR39_1-HE	SRR189254	75	30.2	76	76	DPGP2	X,2L,2R,3L,3R	111,101,981	34.7
31	KR42	Langley lab	haploid_embryo	SRX058268	KR42_1-HE	SRR189255	75	28.5	76	76	DPGP2	X,2L,2R,3L,3R	110,823,311	32.9
32	KR4N	Langley lab	haploid_embryo	SRX058269	KR4N_1-HE	SRR189256	75	29.5	76	76	DPGP2	X,2L,2R,3L,3R	111,045,036	29.6
33	KT1	Langley lab	haploid_embryo	SRX058273	KT1_1-HE	SRR189260	75	25.5	76	76	DPGP2	X,2L,2R,3L,3R	111,229,668	37.6
34	KT6	Langley lab	haploid_embryo	SRX058274	KT6_1-HE	SRR189262	75	27.6	76	76	DPGP2	X,2L,2R,3L,3R	111,074,001	29.6
35	NG10N	Langley lab	haploid_embryo	SRX058275	NG10N_1-HE	SRR189263	75	33.5	76	76	DPGP2	X,2L,2R,3L,3R	111,001,728	38.9
36	NG3N	Pool lab	haploid_embryo	SRX058378	NG3N_1-HE	SRR189414	75	32.3	76	76	DPGP2	X,2L,2R,3L,3R	111,022,313	36.4
37	NG6N	Pool lab	haploid_embryo	SRX058278	NG6N_1-HE	SRR189266	75	33.9	76	76	DPGP2	X,2L,2R,3L,3R	111,483,632	38.4
38	RC1	Langley lab	haploid_embryo	SRX058281	RC1_1-HE	SRR189269	75	26.2	76	76	DPGP2	X,2L,2R,3L,3R	110,659,330	30.3
39	RC5	Langley lab	haploid_embryo	SRX058282	RC5_1-HE	SRR189270	75	29.6	76	76	DPGP2	X,2L,2R,3L,3R	110,723,230	24.9
40	RG33	Pool lab	haploid_embryo	SRX058353	RG33_1-HE	SRR189389	145	37.0	146	146	DPGP2	X,2L,2R,3L,3R	111,689,097	69.8
41	RG4N	Pool lab	haploid_embryo	SRX058362	RG4N_1-HE	SRR306629	145	24.9	146	146	DPGP2	X,2L,2R,3L,3R	111,396,200	54.2
42	RG6N	Langley lab	haploid_embryo	SRX058368	RG6N_1-HE	SRR306624	145	22.0	146	146	DPGP2	X,2L,2R,3L,3R	111,216,270	47.7
43	SB10	Pool lab	haploid_embryo	SRX799453	SB10_1-HE	SRR1696817	100	23.7	100	100	AGES	X,2L,2R,3L,3R	111,238,977	34.2

44	SB16	Pool lab	haploid_embryo	SRX799458	SB16_1-HE	SRR1696818	100	24.1	100	100	AGES	X,2L,2R,3L,3R	111,438,387	32.4
45	SB31	Pool lab	haploid_embryo	SRX799471	SB31_1-HE	SRR1696822	100	21.4	100	100	AGES	X,2L,2R,3L,3R	110,110,096	30.2
46	SF332	Langley lab	haploid_embryo	SRX799661	SF332_1-HE	SRR1696987	100	13.7	100	100	AGES	X,2L,2R,3L,3R	110,582,475	19.9
47	SF428	Langley lab	haploid_embryo	SRX799663	SF428_1-HE	SRR1696988	100	12.6	100	100	AGES	X,2L,2R,3L,3R	110,495,354	16.5
48	SF447	Pool lab	haploid_embryo	SRX799664	SF447_1-HE	SRR1696989	100	15.3	100	100	AGES	X,2L,2R,3L,3R	110,719,070	20.7
49	SP188	Langley lab	haploid_embryo	SRX058287	SP188_1-HE	SRR306632	145	18.4	146	146	DPGP2	X,2L,2R,3L,3R	111,309,908	38.6
50	SP221	Pool lab	haploid_embryo	SRX058288	SP221_1-HE	SRR189277	145	18.9	146	146	DPGP2	X,2L,2R,3L,3R	111,199,509	40.7
51	SP80	Langley lab	haploid_embryo	SRX058292	SP80_1-HE	RR189281	145	18.3	146	146	DPGP2	X,2L,2R,3L,3R	111,128,089	41.6
52	TZ10	Langley lab	haploid_embryo	SRX058283	TZ10_1-HE	SRR189272	75	23.4	76	76	DPGP2	X,2L,2R,3L,3R	110,737,417	26.9
53	TZ14	Langley lab	haploid_embryo	SRX058284	TZ14_1-HE	SRR189273	75	31.7	76	76	DPGP2	X,2L,2R,3L,3R	111,045,117	35.3
54	TZ8	Langley lab	haploid_embryo	SRX058285	TZ8_1-HE	SRR189274	75	31.2	76	76	DPGP2	X,2L,2R,3L,3R	110,920,135	35.9
55	UG19	Pool lab	haploid_embryo	SRX058376	UG19_1-HE	SRR189412	75	33.9	76	76	DPGP2	X,2L,2R,3L,3R	110,998,446	37.2
56	UG28N	Pool lab	haploid_embryo	SRX058277	UG28N_1-HE	SRR189265	75	33.1	76	76	DPGP2	X,2L,2R,3L,3R	110,922,524	38.8
57	UG5N	Pool lab	haploid_embryo	SRX058379	UG5N_1-HE	SRR189415	75	32.1	76	76	DPGP2	X,2L,2R,3L,3R	111,110,172	34.2
58	UK120	Langley lab	haploid_embryo	SRX799667	UK120_1-HE	SRR1696992	100	15.6	100	100	AGES	X,2L,2R,3L,3R	108,541,523	23.2
59	UK2	Langley lab	haploid_embryo	SRX799668	UK2_1-HE	SRR1696993	100	18.3	100	100	AGES	X,2L,2R,3L,3R	111,035,774	25.2
60	UK57	Langley lab	haploid_embryo	SRX799669	UK57_1-HE	SRR1696994	100	20.7	100	100	AGES	X,2L,2R,3L,3R	110,904,117	29.9
61	ZI191	Langley/Pool Lab	haploid_embryo	SRR202128	ZI191-HE	SRR202128	145	23.3	146	146	DPGP3	X,2L,2R,3L,3R	110,845,648	49.2
62	ZI216N	Langley/Pool Lab	haploid_embryo	SRR203328	ZI216N-HE	SRR203328	145	20.4	146	146	DPGP3	X,2L,2R,3L,3R	111,176,278	44.2
63	ZI220	Langley/Pool Lab	haploid_embryo	SRR203067	ZI220-HE	SRR203067	145	23.2	146	146	DPGP3	X,2L,2R,3L,3R	111,180,528	51.3
64	ZI227	Langley/Pool Lab	haploid_embryo	SRR202126	ZI227-HE	SRR202126	145	25.7	146	146	DPGP3	X,2L,2R,3L,3R	111,269,290	54.7
65	ZI254N	Langley/Pool Lab	haploid_embryo	SRR203335	ZI254N-HE	SRR203335	145	18.1	146	146	DPGP3	X,2L,2R,3L,3R	111,099,774	41.2
66	ZI273N	Langley/Pool Lab	haploid_embryo	SRR210786	ZI273N-HE	SRR210786	145	21.1	146	146	DPGP3	X,2L,2R,3L,3R	111,341,925	43.2
67	ZS11	Langley lab	haploid_embryo	SRX058372	ZS11_1-HE	SRR189408	75	32.4	76	76	DPGP2	X,2L,2R,3L,3R	110,736,467	37.7
68	ZS37	Langley lab	haploid_embryo	SRX058373	ZS37_1-HE	SRR189409	75	36.0	76	76	DPGP2	X,2L,2R,3L,3R	110,877,107	41.2
69	ZS5	Langley lab	haploid_embryo	SRX058374	ZS5_1-HE	SRR900425	75	33.4	76	76	DPGP2	X,2L,2R,3L,3R	110,504,765	38.2
70	ZS56	Langley lab	haploid_embryo	SRX058375	ZS56_1-HE	SRR189411	75	30.7	76	76	DPGP2	X,2L,2R,3L,3R	110,737,628	36.0

Table S1E. Key for Two-letter code for the demography of the Drosophila Genome Nexus Strains in the TIDAL-Fly v1 database

	Populatio	Country	Locality	Date	Collector(s)	Latitude (N)	Longitude (E)	Elevation	Number of genomes for each euchromatic chromosome			Comments
									X	2	3	
1	CK	Congo	Kisangani	8/2010	J. Kennis	0.51	25.19	400	2	2	2	
2	CO	Cameroon	Oku	4/2004	J. Pool	6.25	10.43	2169	10	10	10	3 additional chromosome 3 extractions exist, but derive from str
3	EA	Ethiopia	Gambella	12/2011	R. Corbett-Detig	8.25	34.59	525	4	4	4	
4	EB	Ethiopia	Bonga	12/2011	R. Corbett-Detig	7.26	36.25	1725	5	5	5	
5	ED	Ethiopia	Dodola	12/2008	J. Pool	6.98	39.18	2492	6	7	6	
6	EF	Ethiopia	Fiche	12/2011	R. Corbett-Detig	9.81	38.63	3070	5	5	5	
7	EG	Egypt	Cairo	1/2011	J. Atallah	30.10	31.32	25	3	2	2	contains heterozygous intervals (masked in consensus sequenc
8	EM	Ethiopia	Masha	12/2011	R. Corbett-Detig	7.74	35.48	2260	3	3	3	
9	ER	Ethiopia	Debre Birha	12/2011	R. Corbett-Detig	9.68	39.53	2840	5	5	5	
10	EZ	Ethiopia	Ziway	12/2008	J. Pool	7.93	38.72	1642	5	4	5	
11	FR	France	Lyon	7/2010	J. Pool	45.77	4.86	175	9	9	9	
12	GA	Gabon	Franceville	3/2002	B. Ballard & S. Charlat	-1.65	13.60	332	10	9	10	GA191 is missing chromosome 2 data due to heterozygosity
13	GU	Guinea	Dondé	6/2005	B. B. Sow	10.70	-12.25	801	5	5	7	
14	KM	Kenya	Malindi	7/2002	B. Ballard	-1.43	40.03	78	4	3	1	contains heterozygous intervals (masked in consensus sequenc
15	KN	Kenya	Nyahururu	1/2009	J. Pool	0.04	36.36	2303	6	5	6	
16	KO	Kenya	Molo	1/2009	J. Pool	-0.25	35.73	2506	4	0	4	
17	KR	Kenya	Marigat	1/2009	J. Pool	0.47	35.98	1062	6	4	6	
18	KT	Kenya	Thika	1/2009	J. Pool	-1.04	37.08	1531	2	2	2	
19	NG	Nigeria	Maiduguri	9/2004	D. Gwary & B. Sastawa	11.85	13.16	295	6	6	6	
20	RAL	United State	Raleigh NC	2003	T. Mackay	35.76	-78.66	91	205	205	205	(sample sizes before heterozygosity and IBD masking)
21	RC	Rwanda	Cyangugu	12/2008	J. Pool	-2.29	28.55	1602	2	2	2	
22	RG	Rwanda	Gikongoro	12/2008	J. Pool	-2.49	28.92	1927	27	27	27	
23	SB	South Africa	Barkly East	12/2011	J. Pool	-30.97	27.59	1800	5	5	5	
24	SD	South Africa	Dullstroom	12/2011	J. Pool	-25.42	30.10	2000	5	4	5	SD82 is missing chromosome 2 data due to heterozygosity
25	SE	South Africa	Port Edward	12/2011	J. Pool	-31.06	30.22	50	3	3	3	
26	SF	South Africa	Fouriesburg	12/2011	J. Pool	-28.60	28.05	1800	5	4	5	SF7 is missing chromosome 2 data due to heterozygosity
27	SP	South Africa	Phalaborwa	7/2010	R. Corbett-Detig	-23.94	31.14	350	7	7	7	
28	TZ	Tanzania	Uyole	12/2009	L. Nsemwa	-8.89	33.44	1800	3	3	3	
29	UG	Uganda	Namulonge	4/2005	J. Ogwang	0.53	32.60	1134	4	4	6	
30	UK	Uganda	Kisoro	1/2012	R. Corbett-Detig	-1.28	29.69	1925	5	4	5	UK120 is missing chromosome 2 data due to heterozygosity
31	UM	Uganda	Masindi	7/2010	J. Pool	1.68	31.72	1170	3	3	3	
32	ZI	Zambia	Siavonga	7/2010	R. Corbett-Detig	-16.54	28.72	530	196	197	197	ZI382 is missing chromosome X due to heterozygosity
33	ZK	Zimbabwe	Lake Kariba	5/1994	T. Mutangadura	-16.52	28.80	619	3	0	2	contains heterozygous intervals (masked in consensus sequenc
34	ZL	Zambia	Livingstone	7/2010	R. Corbett-Detig	-17.86	25.86	900	1	1	1	
35	ZO	Zambia	Solwezi	7/2010	R. Corbett-Detig	-12.18	26.40	1380	2	2	2	
36	ZS	Zimbabwe	Sengwa	9/1990	R. Ramey	-18.16	28.22	865	4	4	4	

Table S1F. Pools of flies analyzed in the TIDAL-Fly v1 database

	Fly Pool ID	Fly Pool Location	Genome Type	SRA Accession	Library ID*	SRA Accession	Min Read Length	Reads (M)	Read Length 1	Read Length 2	Reference
1	AU-C1	Australia, Cairns	Pool	SRR1177951	pool-AU-C1	SRR1177951	75	26M	75	0	Reinhardt et al., 2014
2	AU-CR	Australia, Cardwell	Pool	SRR1177952	pool-AU-CR	SRR1177952	75	36M	75	0	Reinhardt et al., 2014
3	AU-MO	Australia, Miller's Orchard	Pool	SRR1177953	pool-AU-MO	SRR1177953	75	24M	75	0	Reinhardt et al., 2014
4	AU-SO	Australia, Sorell	Pool	SRR1177955	pool-AU-SO	SRR1177955	75	38M	75	0	Reinhardt et al., 2014
5	EU-PO1	Europe, Portugal	Pool	SRR188217	pool-EU-PO1	SRR188217	75	19.5M	75	75	Kofler et al., 2012
6	EU-PO2	Europe, Portugal	Pool	SRR189066	pool-EU-PO2	SRR189066	73	60.9M	74	74	Kofler et al., 2012
7	NA-SC	North America, Eutawville, SC	50-100 pooled individuals	SRX661835	pool-NA-SC	SRR1525696	100	82M	100	100	Bergland et al., 2014
8	NA-GA	North America, Hahira, GA	50-100 pooled individuals	SRX661834	pool-NA-GA	SRR1525695	100	97M	100	100	Bergland et al., 2014
9	NA-NC	North America, 90 of the DGRP fly strains	Pool	SRX661836	pool-NA-NC	SRR1525697	90	42M	90	90	Bergland et al., 2014
10	NA-PA1	North America, Linvilla, PA, spring 2009	50-100 pooled individuals	SRX661837	pool-NA-PA1	SRR1525768	100	181M	100	100	Bergland et al., 2014
11	NA-PA2	North America, Linvilla, PA, fall 2009	50-100 pooled individuals	SRX661838	pool-NA-PA2	SRR1525769	100	73.7M	100	100	Bergland et al., 2014
12	NA-PA3	North America, Linvilla, PA, spring 2010	50-100 pooled individuals	SRX661839	pool-NA-PA3	SRR1525770	100	35M	100	100	Bergland et al., 2014
13	NA-PA4	North America, Linvilla, PA, fall 2010	50-100 pooled individuals	SRX661840	pool-NA-PA4	SRR1525771	100	70M	100	100	Bergland et al., 2014
14	NA-PA5	North America, Linvilla, PA, spring 2011	50-100 pooled individuals	SRX661841	pool-NA-PA5	SRR1525772	90	78.1M	90	90	Bergland et al., 2014
15	NA-PA6	North America, Linvilla, PA, fall 2011 (pooled)	50-100 pooled individuals	SRX661842	pool-NA-PA6	SRR1525773	100	73.2M	100	100	Bergland et al., 2014
16	NA-PA7	North America, Linvilla, PA, fall 2011 (pooled)	50-100 pooled individuals	SRX661843	pool-NA-PA7	SRR1525774	90	82.1M	90	90	Bergland et al., 2014
17	NA-ME1	North America, Bowdoinham, ME	50-100 pooled individuals	SRX661844	pool-NA-ME1	SRR1525698	100	95M	100	100	Bergland et al., 2014
18	NA-ME2	North America, Bowdoinham, ME	50-100 pooled individuals	SRX661845	pool-NA-ME2	SRR1525699, SRR2006283	100	32M, 32M	100	100	Bergland et al., 2014
19	NA-FL1	North America, Homestead, FL	50-100 pooled individuals	SRX661832	pool-NA-FL1	SRR1525685	100	64M	100	100	Bergland et al., 2014
20	NA-FL2	North America, Homestead, FL	50-100 pooled individuals	SRX661833	pool-NA-FL2	SRR1525694	100	41.6M	100	100	Bergland et al., 2014
21	EU-AU-LF1	Austria, lightest females	Pool, 100 females	ERX149369	pool-EU-AU-LF1	ERR173225	100	86.1	100	100	Bastide et al., 2013
22	EU-AU-LF2	Austria, lightest females	Pool, 100 females	ERX149370	pool-EU-AU-LF2	ERR173226	100	95.0	100	100	Bastide et al., 2013
23	EU-AU-DF1	Austria, darkest females	Pool, 100 females	ERX149371	pool-EU-AU-DF1	ERR173227	100	34.5	100	100	Bastide et al., 2013
24	EU-AU-DF2	Austria, darkest females	Pool, 100 females	ERX149372	pool-EU-AU-DF2	ERR173228	150	39.7	150	85	Bastide et al., 2013
25	EU-AU-DF3	Austria, darkest females	Pool, 100 females	ERX149373	pool-EU-AU-DF3	ERR173229	100	95.0	100	100	Bastide et al., 2013
26	EU-AU1	Austria/Vienna reference	Pool, 100-150 females	ERX149374	pool-EU-AU1	ERR173230	100	41.0	100	100	Bastide et al., 2013
27	EU-AU2	Austria/Vienna reference	Pool, 100-150 females	ERX149375	pool-EU-AU2	ERR173231	150	35.3	150	80	Bastide et al., 2013
28	EU-AU3	Austria/Vienna reference	Pool, 100-150 females	ERX149376	pool-EU-AU3	ERR173232	100	38.9M	100	100	Bastide et al., 2013
29	EU-AU4	Austria/Vienna reference	Pool, 100-150 females	ERX149377	pool-EU-AU4	ERR173233	150	40.7	150	80	Bastide et al., 2013
30	EU-AU5	Austria/Vienna reference	Pool, 100-150 females	ERX149378	pool-EU-AU5	ERR173234	100	41.7	100	100	Bastide et al., 2013
31	EU-AU6	Austria/Vienna reference	Pool, 100-150 females	ERX149379	pool-EU-AU6	ERR173235	100	41.9	100	100	Bastide et al., 2013
32	EU-AU7	Austria/Vienna reference	Pool, 100-150 females	ERX149380	pool-EU-AU7	ERR173236	100	40.8	100	100	Bastide et al., 2013
33	EU-AU8	Austria/Vienna reference	Pool, 100-150 females	ERX149381	pool-EU-AU8	ERR173237	100	40.2	100	100	Bastide et al., 2013
34	EU-AU9	Austria/Vienna reference	Pool, 100-150 females	ERX149382	pool-EU-AU9	ERR173238	100	40.6M	100	100	Bastide et al., 2013
35	EU-AU10	Austria/Vienna reference	Pool, 100-150 females	ERX149383	pool-EU-AU10	ERR173239	150	40.9M	150	80	Bastide et al., 2013
36	EU-AU11	Austria/Vienna reference	Pool, 100-150 females	ERX149384	pool-EU-AU11	ERR173240	100	40	100	100	Bastide et al., 2013
37	EU-AU12	Austria/Vienna reference	Pool, 100-150 females	ERX149385	pool-EU-AU12	ERR173241	150	40.1	150	80	Bastide et al., 2013
38	EU-IT-LF1	Italy, lightest females	Pool, 100 females	ERX149386	pool-EU-IT-LF1	ERR173242	90	14.6	90	90	Bastide et al., 2013
39	EU-IT-LF2	Italy, lightest females	Pool, 100 females	ERX149387	pool-EU-IT-LF2	ERR173243	90	15.6	90	90	Bastide et al., 2013
40	EU-IT-LF3	Italy, lightest females	Pool, 100 females	ERX149388	pool-EU-IT-LF3	ERR173244	90	15.6	90	90	Bastide et al., 2013
41	EU-IT-LF4	Italy, lightest females	Pool, 100 females	ERX149389	pool-EU-IT-LF4	ERR173245	100	138.8	100	100	Bastide et al., 2013
42	EU-IT-LF5	Italy, lightest females	Pool, 100 females	ERX149390	pool-EU-IT-LF5	ERR173246	100	131.7	100	100	Bastide et al., 2013
43	EU-IT-DF1	Italy, darkest females	Pool, 100 females	ERX149391	pool-EU-IT-DF1	ERR173247	92	11.1	92	92	Bastide et al., 2013
44	EU-IT-DF2	Italy, darkest females	Pool, 100 females	ERX149392	pool-EU-IT-DF2	ERR173248	92	10.3	92	92	Bastide et al., 2013
45	EU-IT-DF3	Italy, darkest females	Pool, 100 females	ERX149393	pool-EU-IT-DF3	ERR173249	92	9.5	92	92	Bastide et al., 2013
46	EU-IT-DF4	Italy, darkest females	Pool, 100 females	ERX149394	pool-EU-IT-DF4	ERR173250	100	138.4	100	100	Bastide et al., 2013
47	EU-IT-DF5	Italy, darkest females	Pool, 100 females	ERX149395	pool-EU-IT-DF5	ERR173251	100	138.4	100	100	Bastide et al., 2013
48	EU-IT1	Italy, reference	Pool, 100-150 females	ERX149396	pool-EU-IT1	ERR173252	94	21.6	94	94	Bastide et al., 2013
49	EU-IT2	Italy, reference	Pool, 100-150 females	ERX149397	pool-EU-IT2	ERR173253	94	17.4	94	94	Bastide et al., 2013
50	EU-IT3	Italy, reference	Pool, 100-150 females	ERX149398	pool-EU-IT3	ERR173254	94	15.5	94	94	Bastide et al., 2013
51	EU-IT4	Italy, reference	Pool, 100-150 females	ERX149399	pool-EU-IT4	ERR173255	150	132M	150	150	Bastide et al., 2013
52	EU-IT5	Italy, reference	Pool, 100-150 females	ERX149400	pool-EU-IT5	ERR173256	150	153M	150	150	Bastide et al., 2013

Table S2 Primer Lists

Oligos for gDNA libraries construction	PE_Tdot_common_C* linker	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATC*T
	Barcoded linker PE_tdot_CAGCACTA	/5Phos/GATCGGAAGAGCGGTTCAGCAGGAATGCCGAGACCGcagcactaATCTCGTATGCCGTCTTCTGCTTG
	Barcode linker PE_tdot_AGAGATGC	/5Phos/GATCGGAAGAGCGGTTCAGCAGGAATGCCGAGACCGagagatgcATCTCGTATGCCGTCTTCTGCTTG
	Barcode linker PE_tdot_TCACGTGT	/5Phos/GATCGGAAGAGCGGTTCAGCAGGAATGCCGAGACCGtcacgtgtATCTCGTATGCCGTCTTCTGCTTG
	PE-POSTPCR_1	AATGATACGGCGACCACCGAGA
	PE-POSTPCR_2	CAAGCAGAAGACGGCATAACGAG

Table S2 Primer Lists

PRIMER SEQUENCE FOR S2c1 INSERTS

Sr. no.	SV#	Chr	Chr_coord	Chr_coord	TE	Forward Primer Sequence	Forward primer Length	Reverse Primer Sequence	Reverse Primer length	Length w/c	Length with TE
1	14	chr2L	312233	312444	Stalker2	ACTGGCAAGACCTCGATTGTC	21	CGGATTGTCCGACGTATTAGA	21	411	8661
2	5	chr2L	87055	87258	1731	GGTGCCGCACAATTCGAGGC	21	GCTCCGGTCAGAAGATTTTAC	22	404	5053
3	621	chr2R	544728	544940	HMS-Beagle	ATGGGGAACACAGTCAAATG	21	CATATTATTCAAAGATTGGAT	21	353	6882
4	630	chr2R	2675584	2675743	opus	GAAGAATGAGACGGGCTACCG	21	CTGTAATTGTGTACACAGTCA	21	332	8891
5	1123	chr3L	516184	516383	17.6	AGTCCTCCAACCGAGATGG	20	GATTGAATTCAGTTGGCCGG	21	349	7788
6	1131	chr3L	552782	552981	Juan	TTTATAATAATGTTGCTGGAC	21	GGCATTCTATAGCCCAACCC	21	344	4580
7	1743	chr3R	6430955	6431163	3S18	ATTGAGGCTTTTATTAATCAG	21	GTTCTATATGCTTGTGATGA	21	293	6126
8	1762	chr3R	7492347	7492543	1360	AATACAAGATATTGATACATC	21	CGAAAGTTCATACAAATGTATA	22	374	4480
9	2406	chrX	141518	141720	blood	TTAATGAAGCCGTTGGGCTAGG	22	CTGTGGTGAATTTGCAGCCTT	21	379	7790
10	2413	chrX	325934	326139	1731	TTTTACACTAAGAGTACCGGC	21	CGACCTAATAGTCCGGAAGCT	21	349	4998
11	2427	chrX	1082310	1082488	297	AGATAAGACGCCTATTAAGTG	21	CATTGTATGTTGCATCTGTAG	21	373	7368
12	32	chr2L	522270	522480	297	ATTTCGAATACGTATCGAATG	21	CATTTCCCTGGCAACTTTGCA	21	386	7381
13	2165	chr3R	2.3E+07	2.3E+07	roo	ATCGCTTTTCCAATAAATTGCAT	23	CAGAGACAGCGATTTCAAAT	21	367	9459
14	2531	chrX	6005755	6005959	roo	ACCTTCACGCAGTCCAGCTTCG	22	GCACCTGGCAGGGGATTTAATT	23	381	9473
15	1162	chr3L	957937	958157	roo	TATACAACCACGAGTTCTTGGAAG	24	ACAACATAAATAATTGCAGAGGC	23	296	9388

PRIMER SEQUENCE FOR S2c1 DEPLETION

Sr. No.	Chr_cc	Chr_3p	Chr_coord	Chr_coord	repName	Forward Primer Sequence	Forward Primer Length	Reverse Primer Sequence	Reverse Primer Length	Length w/c	Length with TE	Length with TE depletic
1	chr2L		7350447	7350536	roo	CTCGCGGTGAGTCAACCCCGAG	21	GAGAATTTCCGGTGGTTACGCC	22	7480	5757	
2	chrX		6571315	6571399	Tirant	CCATATTTAGACAATTATTC	20	CAGTCCCACAAGTGCGAGCGG	23	8802	1240	
3	chr2R		21753581	21753663	roo	GAACACTTTAAGCCAGTTTG	21	GAACCTCAACAATATCCGAT	20	833	405	
4	chr3L		3069878	3069958	Tirant	GACTCCTATGACGCAATACAG	21	CATTCTGTATACAAACAAATC	22	8912	1350	
5	chr3L		7889043	7889129	Stalker4	TATGCCTATAATCAATAAATC	21	CTTCATGTTGCTACATAAATCAT	23	2873	1107	
6	chr3L		7987706	7987783	NOF	TCCCGAATAGCACCGAATTC	21	CAATTAATGTGGAATCTCAAG	22	2650	620	
7	chr3L		15426613	15426700	opus	TTTTGGTCGAGTTCTGTCTG	21	GAAGTCTTTATAAGTCAAGAA	21	3160	2642	
8	chr3R		24072571	24072628	jockey	CATTTCTTTGCGCCTGCCATG	21	GACAGCACTTGGATGATCCA	20	341	150	
9	chrX		3842569	3842647	pogo	GATCCTTGTCCCGGATAAGTC	21	GATTTTCCCGTTCTGGAGTAA	21	541	355	
10	chr3R		24931935	24932010	Doc	TGCAGAATTGTACAAGAGATG	21	CAGATATGTACAATTCGGACA	22	5120	395	

Table S2 Primer Lists

TIDAL only TEIns sites																
Site Number	Chr	Chr_coord_5p	Chr_coord_3p	TE	Coverage_Ratio	RAL-765_Inserts_Annotat ed_Insert_Code	Space	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size
1	chr2L	8133670	8133752	HMS-Beag	2.4	chr2L_17_8130001	82	Telns_TID_1_Fw	GATCAAGTCGACGAAACAATT	21	56.8	Telns_TID_1_Rv	CGCATGCATATAGGCGGATGC	21	67.7	275
2	chr2L	19834994	19835061	hobo	4.7	chr2L_20_19830001	67	Telns_TID_2_Fw	TAAATATTATCATTTGTGAGCTG	23	51.9	Telns_TID_2_Rv	AGTTTTATGGCATTATGTCTG	21	54.6	354
3	chr2L	12227998	12228146	BS	5.3	chr2L_10_12225001	148	Telns_TID_3_Fw	CCAGCTGGCACAATGAATG	20	62.6	Telns_TID_3_Rv	CGTTTTAAGCCACATTGCTG	21	62.7	274
4	chr2R	12581030	12581105	pogo	5	chr2R_14_12580001	75	Telns_TID_4_Fw	ATTTGAAAGAAAAATAGTCATGC	22	53.1	Telns_TID_4_Rv	CCACTAAGCGATGACGAAACGCG	22	69.1	333
5	chr2R	7621371	7621430	mdg1	4	chr2R_10_7620001	59	Telns_TID_5_Fw	ATGTCAAGAATCTGAAGTTACG	22	53.8	Telns_TID_5_Rv	CGTTTGTATGGTCCAATATGC	22	61.4	328
6	chr3L	4481564	4481640	roo	4.1	chr3L_14_4480001	76	Telns_TID_6_Fw	GAGTGCAGCCCTACTATTAG	21	51	Telns_TID_6_Rv	CACGTTCTTATGTGATAATTA	22	47.8	337
7	chr3L	18394377	18394445	1360	4.2	chr3L_11_18390001	68	Telns_TID_7_Fw	TCAAACTATGTGTTTTAAGAGTAT	24	50	Telns_TID_7_Rv	CAGGGTGGATTCCGCTATCAGC	21	64	360
8	chr3R	4885334	4885399	1360	1.7	chr3R_13_4885001	65	Telns_TID_8_Fw	ATTTATGCCAGTCACTGGGCC	20	62	Telns_TID_8_Rv	CGAGCAAGAATGACCTCAAGT	22	58.5	354
9	chr3R	20125023	20125087	jockey	2.4	chr3R_12_20125001	64	Telns_TID_9_Fw	AATTGACTTGCACCATGTGC	21	63.3	Telns_TID_9_Rv	CCGAGTCAATGGGAGTGGCC	21	71.3	360
10	chr3R	11089486	11089562	roo	5.4	chr3R_15_11085001	76	Telns_TID_10_Fw	TTTGAACACAATTTGGAAGTG	21	56.2	Telns_TID_10_Rv	CAGTCCGCCCAAGAAACCAAA	21	66.5	359
11	chrX	7785488	7785556	hobo	3.3	chrX_10_7785001	68	Telns_TID_11_Fw	AAGTTTTATGACCTCCATATG	21	51.1	Telns_TID_11_Rv	CATTAATTTCCGCAGCACAGC	21	62.9	342
12	chrX	15391856	15391929	roo	4.1	chrX_13_15390001	73	Telns_TID_12_Fw	TATATATTCGGTAAAACCTG	22	53.3	Telns_TID_12_Rv	CTTTGCATGATAACATTAAGT	21	49.9	341

Table S2 Primer Lists

TIDAL and Lnb shared sites

Site Number	Chr	Chr_coord_5p	Chr_coord_3p	TE	Coverage_Ratio	Tidal Insert Code	LnB765	TIDAL	CnT	TEMP	Space	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size
1	chr2L	267478	267547	P-element	4.4	chr2L_18	chr2L_265	chr2L_265	chr2L_265		69	Telns_LnB_1_Fw	ACATACACAGAGACAGGAAAGC	22	56.1	Telns_LnB_1_Rv	CGAATTTATGGAAATCAGCATT	22	58.2	314
2	chr2L	1167146	1167232	opus	2.6	chr2L_21	chr2L_116	chr2L_116	chr2L_116		86	Telns_LnB_2_Fw	CTCCACTATAACGTTACCCAAC	22	55.3	Telns_LnB_2_Rv	CAAGAGACATTGCGCAGGT	20	63.6	386
3	chr2L	20800099	20800248	Burdock	5.8	chr2L_22	chr2L_208	chr2L_208	chr2L_208		149	Telns_LnB_3_Fw	CCTCCTGCTCCCAACCACTGG	21	63.1	Telns_LnB_3_Rv	GACCTCTCCTCTCTTATT	21	51.8	329
4	chr2R	9380884	9380961	3518	2.4	chr2R_16	chr2R_938	chr2R_938	chr2R_938		77	Telns_LnB_4_Fw	GGGGAGAAAATGGGAGAAAGC	21	63.1	Telns_LnB_4_Rv	CCAAGTCGAAAATGTTGCTC	21	59.7	365
5	chr2R	9442941	9443015	412	3.9	chr2R_13	chr2R_944	chr2R_944	chr2R_944		74	Telns_LnB_5_Fw	TGTCAAGAATCTGAAGTTACG	21	53.1	Telns_LnB_5_Rv	GATTCGTTGTTATGGTGCCA	21	57.5	331
6	chr2R	11578561	11578638	blood	5.6	chr2R_14	chr2R_115	chr2R_115	chr2R_115		77	Telns_LnB_6_Fw	CATTTTGTAGTCGAGACCTCAT	22	58.8	Telns_LnB_6_Rv	TGTCAAGTGTATATGCTTCT	21	50.1	372
7	chr3L	934796	934851	hobo	8.3	chr3L_15	chr3L_930	chr3L_930			55	Telns_LnB_7_Fw	ATACGGAAATCAAACATATGTG	21	52	Telns_LnB_7_Rv	TGGATTCTGCTCAGGATGTG	21	61	364
8	chr3L	22566716	22566793	hobo	4.3	chr3L_32	chr3L_225	chr3L_225			77	Telns_LnB_8_Fw	TTGCACTGCTATTGCAAGAAAG	21	59.3	Telns_LnB_8_Rv	CAATCGTCTCATTTGTATG	21	55.7	367
9	chr3R	18968019	18968094	Burdock	3.8	chr3R_19	chr3R_189	chr3R_189			75	Telns_LnB_9_Fw	AGAGTGTATCTGGGAGAGAG	21	50.2	Telns_LnB_9_Rv	GTCACATTTTTCGCCCTCAG	22	63.9	375
10	chr3R	30626323	30626403	412	5.2	chr3R_22	chr3R_306	chr3R_306			80	Telns_LnB_10_Fw	GAAATCAAATGCCGCTTTCATG	23	66.5	Telns_LnB_10_Rv	CTAGATTAGTGCATATTAAG	23	52.3	379
11	chrX	6487781	6487856	blood	4.3	chrX_18	chrX_648	chrX_648	chrX_64		75	Telns_LnB_11_Fw	TTTCATTCAAATGCTTATGC	21	55.6	Telns_LnB_11_Rv	CATGTAATGCGTCATCATG	21	58.5	375
12	chrX	21399401	21399469	pogo	3.6	chrX_12	chrX_2139	chrX_2139			68	Telns_LnB_12_Fw	CGTGAGGTAAGTGAATTC	21	56.4	Telns_LnB_12_Rv	CGATGCTGCAAAAACAAT	21	61	321

Table S2 Primer Lists

CnT Only sites

Site Number	Insert_code	Chr	Start	Stop	Space	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size
1	chrX_4330001	chrX	4334105	4334327	222	Telns_CnT_1_Fw	CTAGGCTACTCTAAAAGATATC	23	50.8	Telns_CnT_1_Rv	ACGAGGCTAAAATAAAGGCC	21	60.8	376
2	chrX_14000001	chrX	14001033	14007159	6126	Telns_CnT_2_Fw	AACAAGAGAGAATGTCTATAGTCG	23	54.8	Telns_CnT_2_Rv	GATGAATTTTCGCAATTCACA	21	58.6	6092
3	chr3R_7695001	chr3R	7696150	7703338	7188	Telns_CnT_3_Fw	CCACACTTATATTA ATTGGCA	22	53.1	Telns_CnT_3_Rv	GATCTCTGCCGCTGTCACTG	21	65.8	7171
4	chr3R_14020001	chr3R	14021702	14023463	1761	Telns_CnT_4_Fw	CAGTTTGTCAAGAAAATGTTTAC	23	53.6	Telns_CnT_4_Rv	CAGTTTGTCAAGAAAATGTTT	21	52.2	1734
5	chr3L_4360001	chr3L	4361048	4361901	853	Telns_CnT_5_Fw	AGCTCAAAGAAAGCTGGGTCTG	21	65.2	Telns_CnT_5_Rv	CCATGAAATGAAACAATGATTA	23	56.7	844
6	chr3L_17180001	chr3L	17180645	17180660	15	Telns_CnT_6_Fw	ACGATTTTCCGCTCACGC	19	66.8	Telns_CnT_6_Rv	GCCGAAATTTGTAGTTAAAAT	21	52.2	394
7	chr2R_6945001	chr2R	6948454	6948972	518	Telns_CnT_7_Fw	TCTAAAGTCTGTTCCTCTGAC	21	56.9	Telns_CnT_7_Rv	CGTAAATTAATTTGGTTGAGGA	22	56	493
8	chr2R_13060001	chr2R	13064762	13064861	99	Telns_CnT_8_Fw	TATATTATGCCAGTCATGGG	21	55.2	Telns_CnT_8_Rv	CGAGCAAGAATGACCTCAAGT	22	58.5	357
9	chr2L_1805001	chr2L	1809645	1810122	477	Telns_CnT_9_Fw	TTCAGGATAGTTGTCTAAACA	23	53.6	Telns_CnT_9_Rv	ATTCGGAGAAATTTATTCGCA	21	57.7	447
10	chr2L_9780001	chr2L	9783398	9783415	17	Telns_CnT_10_Fw	ATACGGGGTGGCTGTAACCTCC	22	63.4	Telns_CnT_10_Rv	CGTTCTTTGCAACGAATCAATTG	23	61.7	394
11	chr4_180001	chr4	180927	183823	2896	Telns_CnT_11_Fw	CTTTCTTATACGCATACATTG	21	50.6	Telns_CnT_11_Rv	CGGCCATACACATTGGTCTTG	21	63.5	2892
12	chr4_1000001	chr4	999517	1001425	1908	Telns_CnT_12_Fw	GTTCTGATTTACTAGCTAAGG	23	52.4	Telns_CnT_12_Rv	GTTACTCAGCAAAACGATGAGT	21	52.9	2008

Table S2 Primer Lists

TEMP Only Sites

Site Number	Chr	Start	Stop	rounder	InsertCode	Space	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size
1	chr2L	9850436	9850443	9850001	chr2L_9850001	7	Telns_TEM_1_Fw	GGTTGCTGTGTCTCTCTG	20	60.5	Telns_TEM_1_Rv	GGTTCAGGTGAGGAGGAGCAG	20	62	383
2	chr2L	1558495	1558995	1555001	chr2L_1555001	500	Telns_TEM_2_Fw	CAGACAAAAGTAATGTGAAAC	21	50	Telns_TEM_2_Rv	CAACCATTAATGCTATATCA	21	50.7	482
3	chr2R	5334166	5334666	5330001	chr2R_5330001	500	Telns_TEM_3_Fw	CCGTGTAGGCTTACAAGCAATAG	23	60.2	Telns_TEM_3_Rv	CTTGTTGGTGGCAAAGTCAATG	21	59.2	494
4	chr2R	2095477	2095485	2095001	chr2R_2095001	8	Telns_TEM_4_Fw	GTGCACTATGTATGGAGCTCGG	23	65.2	Telns_TEM_4_Rv	CTTACAATAGATTTAATGCTTT	23	50	405
5	chr3L	9571935	9572435	9570001	chr3L_9570001	500	Telns_TEM_5_Fw	TCGCGAAATGTAAGGTATAGTG	22	57	Telns_TEM_5_Rv	GTTTCGATGGATACGAAAACA	21	57.6	482
6	chr3L	5056174	5056674	5055001	chr3L_5055001	500	Telns_TEM_6_Fw	CAATCCGCACTAGACACTCAC	22	63.2	Telns_TEM_6_Rv	GGCTCTAATCGTTAGTTATAAA	25	52.1	499
7	chr3R	5035704	5035739	5035001	chr3R_5035001	35	Telns_TEM_7_Fw	TGAATTTTACATTAAGGCGG	21	57	Telns_TEM_7_Rv	AATCCGAACCCGAATCGGAA	20	65.8	296
8	chr3R	1211275	1211285	1210001	chr3R_1210001	10	Telns_TEM_8_Fw	TAGAACTATGATGATCAAGGG	24	50.8	Telns_TEM_8_Rv	GTGATTCGCTTAGTTTTGTTT	21	53.8	398
9	chrX	294866	294869	290001	chrX_290001	3	Telns_TEM_9_Fw	ATTGATGCAATAATTTCAACTG	23	52.6	Telns_TEM_9_Rv	CGCATTTCGCTGGTCTGAC	21	61.8	395
10	chrX	5410656	5411156	5410001	chrX_5410001	500	Telns_TEM_10_Fw	GTTAATAGTAATTAGCACATTGCA	24	53.5	Telns_TEM_10_Rv	GAATCTCCGATATCATCAACGA	22	59	488
11	chrY	203747	204247	200001	chrY_200001	500	Telns_TEM_11_Fw	CGTATCAGACAATCTAGTAGCAG	23	53.8	Telns_TEM_11_Rv	GGACAACCACTTTTATAAT	20	52.3	487
12	chrY	1565254	1565753	1565001	chrY_1565001	499	Telns_TEM_12_Fw	TCATCAAATCGGAGACTCC	21	60.1	Telns_TEM_12_Rv	ATGAATTTGTTCTATTTGAACTC	23	52.2	645

Primers for TE InDels In the ISO1-BL Line

TE Insertions

Site Number	Chr	Chr_coor_d_5p	Chr_coor_d_3p	TE	Coverage_Ratio	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Amplicon Size
1	chr2R	2E+07	19768307	copia	4.5	ISO1_BL_F11	TGCTAGAATTGCTATGCCGC	22	65.5	ISO1_BL_R11	GTTTAAGTAAGGATCGATTTTAG	23	51.5	295bp
2	chr3L	4390337	4390468	roo	4.5	ISO1_BL_F12	GTTGGACAAAGGAATCGGTAATG	23	61.8	ISO1_BL_R12	GCATTCGTACTGTTCCAGCA	22	62.5	330bp
3	chr2R	8528862	8528983	l-element	4.4	ISO1_BL_F13	CCATAAAACGCACATATTGC	21	61.3	ISO1_BL_R13	TTCCCGCTTCCCACTTTC	19	60.1	273bp
4	chr3R	3E+07	29777247	F-element	17.9	ISO1_BL_F14	TGGCGCTACGCTAATGAAATC	21	62.4	ISO1_BL_R14	GCGGTCCTGATAAACGTATTT	21	58.2	414bp
5	chr2L	1068653	1068778	FB	4.2	ISO1_BL_F15	CTGATAAGCGGCAGCATAAGCAG	23	65.3	ISO1_BL_R15	GAGCCAAGCTTAGGCTGCAATT	22	64.1	517bp
6	chrX	6542904	6543018	l-element	4.3	ISO1_BL_F16	TTGAAGTTGGCCATTACGGG	21	64.1	ISO1_BL_R16	GGACGCCAATGGAGCTTATTG	21	63.9	501bp
7	chrX	1.9E+07	19018748	copia	4.7	ISO1_BL_F17	AAGATTTAGAGACTCCACC	21	52.6	ISO1_BL_R17	GCTTAAGGCCCGCAACAA	19	65.6	469bp
8	chr3R	5066592	5066727	Tirant	4.4	ISO1_BL_F18	TTATTACCACAGCTAAGAGTC	21	49.1	ISO1_BL_R18	GATATGCTAATTCGGCGCG	19	61.6	515bp
9	chrX	1.1E+07	10556301	Doc	5.7	ISO1_BL_F19	AGCCAAGATCTGTCATTTGTC	21	56.8	ISO1_BL_R19	CAACACACACAGCGAAGCGTA	21	64.6	363bp
10	chr2L	5999659	5999785	hobo	5.6	ISO1_BL_F110	GTCGAAGTGCAGGAAACGT	19	63.5	ISO1_BL_R110	CAAATTCCTTAAAGCAAGGCTT	22	59	479bp
11	chr2R	2.3E+07	22786444	hobo	5.3	ISO1_BL_F111	AAGAATTTCTTTCCCAAGCTC	22	58.1	ISO1_BL_R111	GGTATACTTACCTTTTATGCG	22	50.6	523bp
12	chr2L	9485261	9485390	hobo	4.2	ISO1_BL_F112	GAGTGTGCAGAGTCCGCTG	21	63.6	ISO1_BL_R112	CTAGTAGAATGATTTGGGCCAA	23	59.5	514bp

TE Depletions

Site Number	Chr	Chr_coor_d_5p	Chr_coor_d_3p	TE	Coverage_Ratio	FW primer name	FW primer sequence	Fw Length	Tm	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size	RV primer name	RV primer sequence	Rv Length	Tm	Predicted Amplicon Size
1	chrX	6335185	6335241	Tirant	4.6	ISO1_BL_FD1	GCTGATTACGAATCACTTGAAG	23	58.1	ISO1_BL_RD1	GGCTAGCTGGGACAATGTTG	21	64	380bp	ISO1_BL_RD1.1	CGTCATTGTATCGCGCTTATA	21	58.8	2757b.p.
2	chr3R	5045818	5045876	HMS-Beagle	4.4	ISO1_BL_FD2	GGTTACACAAGAGCGTGCAGC	21	63.2	ISO1_BL_RD2	CTAAGTCCCTAGCAATCAAGTGA	23	57.7	448bp	ISO1_BL_RD2.1	GCCACTTATTATAAATGCA	22	50	7393
3	chr3R	3.2E+07	31691562	Doc	4.3	ISO1_BL_FD3	AAGAGCGACTGAATAACGAAG	21	56.4	ISO1_BL_RD3	CCAGAACAATATGGAATAATT	21	51.1	449bp	ISO1_BL_RD3.1	GTCATATCTGCTGCCACGC	20	64	5068
4	chr3R	1.7E+07	16756346	diver	3.6	ISO1_BL_FD4	CAATAAAACAGCGCGGCAC	19	64.1	ISO1_BL_RD4	CTGAACCTGTATCTTCTTTCGCG	23	57.4	436 bp	ISO1_BL_RD4.1	GGCCACTCGGAGTGGCTC	19	65	6493
5	chr2L	1.3E+07	12861728	hobo	3.5	ISO1_BL_FD5	ATTTATCTTATCTGTTATCCCA	24	53.9	ISO1_BL_RD5	CGACGCAAAACACGTTATGA	21	64.1	458bp	ISO1_BL_RD5.1	TACTCCAGAATGCGGTGGAG	21	61.2	1720
6	chr2L	1.8E+07	17951978	hobo	3.5	ISO1_BL_FD6	TAGAGCTAAGCCAGCCAGGAC	21	61	ISO1_BL_RD6	CACTCGAGTATTTTGTGTGCC	22	59.7	381bp	ISO1_BL_RD6.1	AACTGTACAGGATGATACAG	21	50	1785
7	chr3L	2927813	2927871	Tirant	3.5	ISO1_BL_FD7	GTACAGAGATAAAGAAGAACTAA	23	50.5	ISO1_BL_RD7	GACTCGAGTAGCCACTCTCTG	21	55.9	393bp	ISO1_BL_RD7.1	TGTTGTTTTGGTGTATACAA	23	57.9	8527
8	chrX	1.2E+07	11633445	297	2.9	ISO1_BL_FD8B	AACACAGATCAAGTGTGAGT	21	52.8	ISO1_BL_RD8B	TCTCCTCAATCCAATTTGCAT	21	59.5	430bp	ISO1_BL_RD8.1	CAGAATGGAAATAAATTTGTT	21	51.4	7371
9	chr3L	8481746	8481802	roo	3.3	ISO1_BL_FD9B	AGTAGCTGTGGATCTGTGGC	20	57.9	ISO1_BL_RD9B	ATTTACTTAGGCCTCTGCGTA	21	56	408bp	ISO1_BL_RD9.1	TTGCGTTCGATCTGTGAGA	21	63.1	9454
10	chr2R	7608382	7608431	l-element	2.6	ISO1_BL_FD10B	ATTCAAGCGTATTGTTATTG	21	52.4	ISO1_BL_RD10B	CATAAACAGCCAGCAATTAGTT	22	56.3	317bp	ISO1_BL_RD10.1	TGATCGAAATGGGTAAAGTTCG	23	61.2	5489
11	chr2R	8398189	8398240	Doc	3	ISO1_BL_FD11B	TGGGAGACGGTGGATAGGTAG	21	61.4	ISO1_BL_RD11B	GTAGGTGCACCTGGAGCACC	20	57.2	399bp	ISO1_BL_RD11.1	GAGGCACGAACCTGCTGGCT	19	65	5061
12	chr3R	3.1E+07	31279405	diver	2.5	ISO1_BL_FD12B	AGAGATCCAAATTCAAATATG	21	51.1	ISO1_BL_RD12B	ATCAGCTGTATCGCTATGAC	21	57.8	301bp	ISO1_BL_RD12.1	CTTGCTAAAACCCACACAC	20	58.1	6402