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Hi Kevin:

As I mentioned in my email, I have several Dfs that may be useful to the Drosophila community. Here is a list of the Df stocks, with relevant information about how they were made. Maps and figure legends follow on subsequent pages.

1. *Df(3L)B71/TM6C, Sb* - this is a stock carrying the Df segregant of *T(Y;3)B71*, a translocation you already maintain at the stock center. I found that this Df does not uncover *trh*.

2. *Df(3L)7C/TM6C, Sb* - this Df was made by mobilizing the P element (PZ) in *trh, l(3)10512*. The P element still resides at the Df breakpoint. I cloned out but did not sequence the flanking DNA. The approximate breakpoint (from detailed Southern analysis of phage clones spanning the interval) is drawn on the figure and is more accurately specified on a restriction map of the *fwd* region that also indicates the two genes distal to *fwd*.

3. *Df(3L)17E/TM6C, Sb* - this stock was made by mobilizing *P(w⁺)751/02* from the paper by Deak *et al.* (*Genetics* (1997) 147: 1697). The P element (PlacW) still resides at the Df breakpoint. I cloned out the flanking genomic DNA, but the breakpoint was distal to the *fwd* interval and I did not sequence the clone. The heterozygous combination *Df(3L)7C/ Df(3L)17E* is viable and completely removes *fwd* (which encodes a predicted PI4 kinase β), the adjacent predicted RhoGEF and a small predicted ORF distal to the RhoCEF (denoted CG13883 by the genome project).

4. *Df(3L)2D/TM6C, Sb* - this stock was made the same way as *Df(3L)17E*, except that the deletion is to the proximal side of the starting P element. Again, the P element was retained at the Df breakpoint. I never cloned out the flanking genomic DNA, but the Df extends at least as far as trh, as it fails to complement *l(3)10512* and the missing

sequences were confirmed by Southern blotting using a number of cloned fragments across the Df interval. This Df would be useful for studying any of the 10 predicted genes that lie between *fwd* and *trh*, as would *Df(3L)7C*.

I have set aside copies of these stocks to send to you if you would like them for the Drosophila Stock Center. Please let me know if there is any additional information you need to include any or all of these stocks in the collection.

Sincerely,

Julie A. Brill

Fig. 5
Pan'll et al.
(2000)

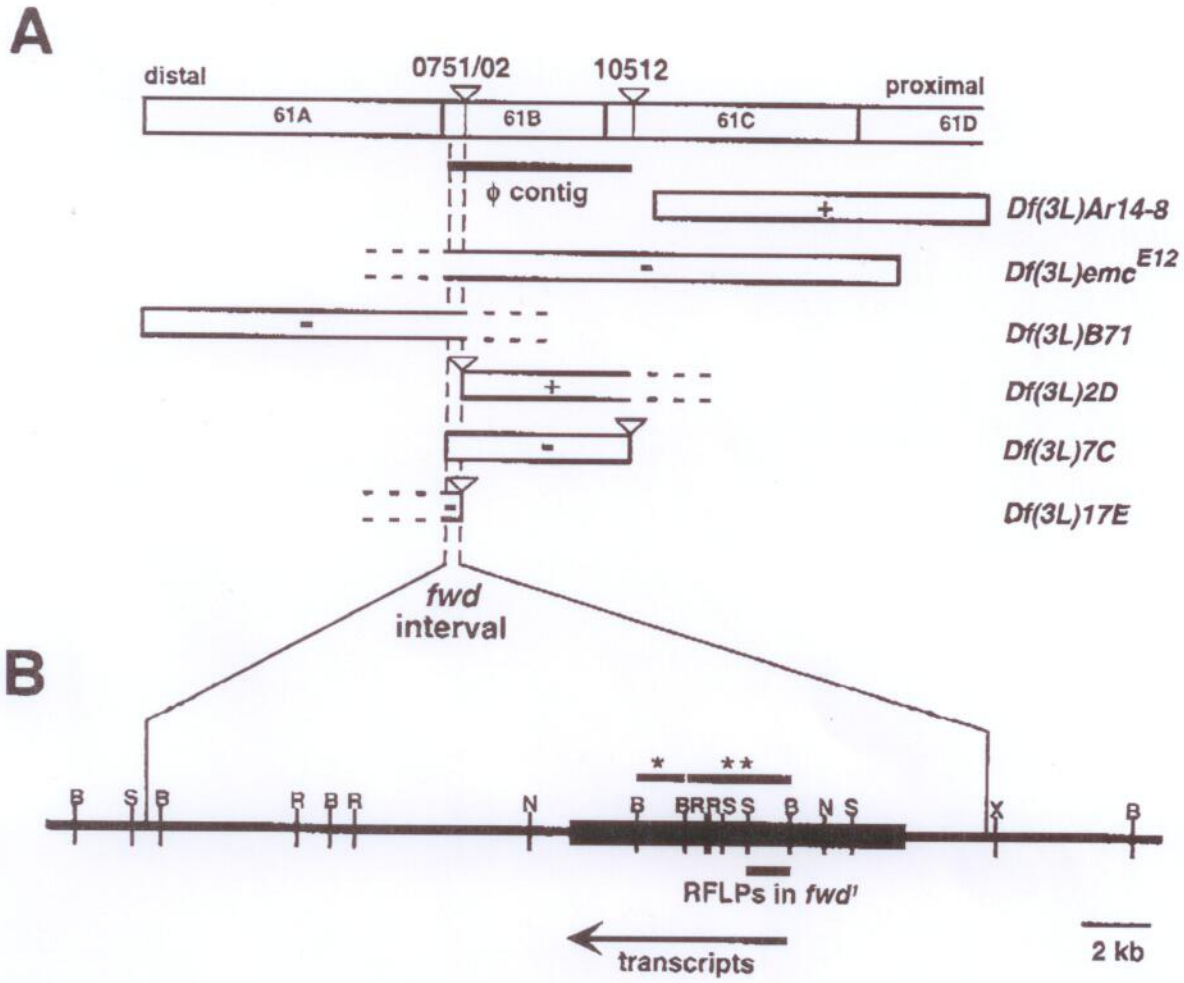

Fig. 5. Cloning of *fwd*. (A) Deficiency map of the *fwd* region. Top line: Polytene chromosome interval 61A-D. Triangles: Insertion sites for P elements 0751/02 and *l(3)10512*, which were used to generate small deletions. Bar below polytene map: Region spanned by cloned phage contig of genomic DNA. Open boxes: DNA deleted in deficiency stocks (breakpoints not defined molecularly shown as dashes). P elements were retained at breakpoints of small deletions (indicated by triangles). (+) Complemented *fwd*. (–) Failed to complement *fwd*. Vertical dashed lines indicate *fwd* interval determined by distal breakpoint of *Df(3L)7C* and proximal breakpoint of *Df(3L)17E*. (B) Genomic DNA containing the *fwd* gene. Restriction map of genomic DNA across *fwd* interval. Distal breakpoint of *Df(3L)7C* and proximal breakpoint of *Df(3L)17E* (from A) are indicated. Restriction enzymes: B = *Bam*HI, R = *Eco*RI, S = *Sal*I, H = *Hin*dIII, X = *Xho*I, N = *Not*I. (Thick black box) 9.6 kb of sequenced wild-type genomic DNA. (*) 1.3 kb and (**) 3.0 kb *Bam*HI fragments used as probes on Southern and Northern blots (see Materials and Methods and Fig. 7A). (Gray bar) Region containing RFLPs indicating rearrangements in the fwd^1 allele. (Arrow) Location of transcripts (shown with 5' end to the right, corresponding to the chromosomal orientation of the transcription unit).

From Brill *et al.* (2000) "A phospholipid kinase regulates actin organization and intercellular bridge formation during germ line cytokinesis." *Development* (in press). Sept. 2000

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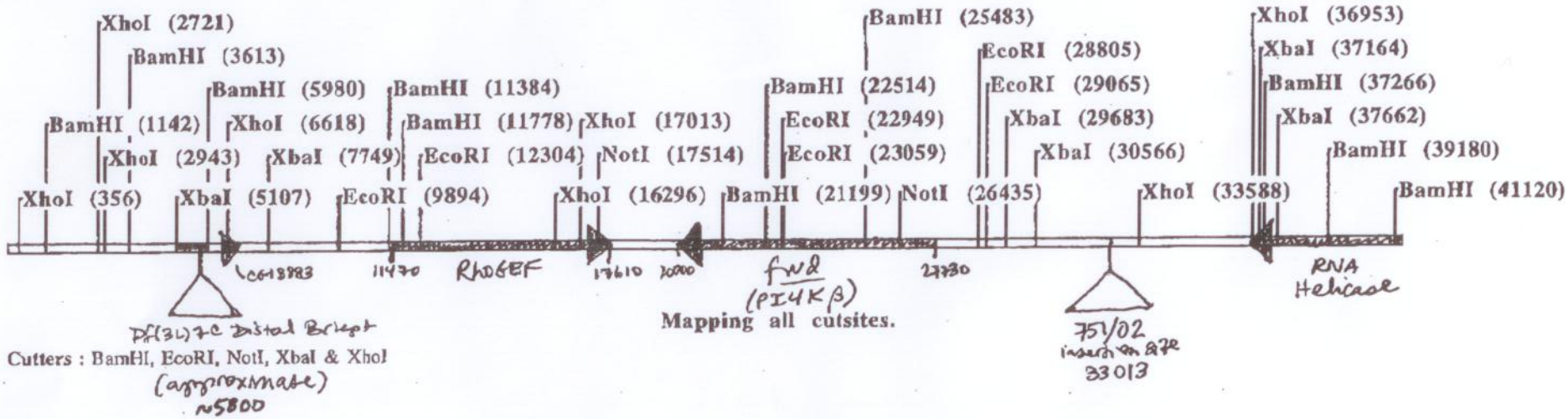

fwd region restriction map showing distal breakpoint of Df(3L)7C and 751/02 insertion site, which is the proximal breakpoint of Df(3L)17E and also the distal breakpoint of Df(3L)2D