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December 20, 1990

ddd

FAX: [redacted]

John Merriam
UCLA Drosophila Genmaps Database
DEPARTMENT OF BIOLOGY
405 HILGARD AVENUE
LOS ANGELES, [redacted]
FAX [redacted]

Shearn, Allen
Johns Hopkins University
Department of Biology
34th and Charles
Baltimore, MD 21218

Dear Colleagues:

I would like to use information from the clone list to construct a "physical map" of the Drosophila genome. You have (a) clone(s) listed, as described below, so I would like to enlist your help. What I need for this project are the names and locations of chromosome rearrangement breakpoints that lie within the region of your clone/walk. Mapping breakpoints is the most reliable way of connecting the molecular with the cytological scales.

As you know, the clone list has been useful to Drosophila workers in finding starting points for their walks. The database is organized by references, so that the original cloning paper from a lab is cited as key #1, with subsequent papers cited by subject (key #5 is sequence information, for example). The clone list is therefore also a gene-by-gene literature index. The clone list is now mounted on the Indiana University BioArchive computer bulletin board in the FLY subdirectory. Use Internet address 129.79.1.101 and your local File Transfer Program.

Please take a few minutes to complete this form and return to me by FAX or mail. It will be most useful if you can update your clone sizes and make more exact your clone locations. Make any other changes you want also. List the rearrangements and which breakpoints you have identified. Any cytologically visible rearrangement (deletion, inversion, translocation, transposition, duplication) is useful. Please indicate if the same citation is the best reference, or indicate a better one (or a personal communication).

I thank you for your help as always. With your prompt and generous support I can expect to show you the results in March at the Chicago fly meeting.

List Rearrangements:	Breakpoint found:	Other breakpoints:
T(2,3)ddd^{84}	64F	?
T(1,3)ddd^{86}	64F	?

CHANGE or CONFIRM indexing for original clone cit'n: Locations ✓ Clone sizes ✓ Names/Products ✓

Simcox, M; Phillips, M; Shearn, A. 1990 Crete meeting.

Location	ay	kb gen/cDNA	Gene name (abbreviation) product rearrangements...
64F	1,6	37 0	defective dorsal discs (ddd)

update of existing record, Shearn, I.

DROSOPHILA DATABASE REPORT FORM
Return to John Merriam, UCLA Biology, LA 90024-1606 FAX [redacted]

Please verify [___] or correct the address and citation on the reverse

NAME: AMANDA SIMCOX ALLEN SHEARN **PHONE #:** [redacted] **FAX #:** [redacted]

1. **GENE:** How do you describe the gene you are reporting on?

   mutant name (if any): defective dorsal disc

   abbreviation: ddd

   biochemical name (if any): ___

2. **LOCATION:** Where is your clone/walk located? ___
   (If you are using a clone from a more extended walk, what is the location of your gene? 64F)

3. **SIZE:** How many kb did you clone? (round to nearest kb)

   genomic 37 vector/library name: λ Maniatis library

   cDNA — vector/library name: —

4. **METHOD:** Describe the entry point for your clone/walk.

   prior clone ___ transposon tag P mutants

   expression ___ differential screen ___

   microclone ___ oligonucleotide ___ PCR? ___

   homology ___

5. **SEQUENCE:** How many kb did you sequence? (round to nearest 0.1 kb)

   genomic 3 accession #: NONE

   cDNA ___ accession #: ___

   PRODUCT: How many amino acids in the ORF? There is an ORF in genomic sequence but we will isolate a cDNA first
   (List above the predicted function or homology group of the ORF)

   (List above the key words that describe domains in the ORF)

6. **TRANSCRIPTS:** (round mRNA sizes to nearest 0.1 kb, list largest 1st):

   RNA smear has 'OPA' repeats When/where found? ___

7. **PROTEIN** (antibody detection): Where found? ___

8. **LAC Z FUSION** stain: Where found? ___

9. **MORE DETAILS:** ___

New Fields RECORD NO 1870 REF NO. * 608
Version 7/24/87

Phillips, Simcox, Sheard
Johns Hopkins
30th Annual Conf 1989

please return to:

John Merriam

Biology Department
Univ California
Los Angeles, CA 90024

FAX # [redacted]

4. Date
5. Location 64F
6. Table Num 0 (1) 2 3 4 5 6
7. Clone Name
8. Genes Info defective dorsal closes (ddd)
9. Stock Orgn
10. KB Size
11. Cross Ref
12. Misc Info transposon tagging;
13. Reference
14. Breakpoint
15. BPCont1
16. BPCont2
17. T Strain
18. Markers
19. DIS Vol
20. Comments
21. KB Sequenced
22. Coordinates

key to Table num for this record: 0 = new data and ref on one previously entered, 1 = clone, 2 = rearrangement breakpt, 3 = insert, 4 = walk, 5 = sequenced, 6 = transcription
multiple entries ok (ie 1,2,4,5,6)

arn, Allen
Johns Hopkins University
Department of Biology
34th and Charles
Baltimore, MD 21218

Phillips, Simcox and Shearn (1989) 30th Annual Dros. Conference

64F

location changes

30 kb kb per location?

genomic genomic or cDNA?

key details of cloning method

walk/jump

homology

P-element transposon tag

expression, etc

oligonucleotide

other (specify)

contains ~~ddc~~ defective dorsal discs genes (ddd)

Is the reference correct? (changes?) Yes

Your name Allen Shearn

telephone number [redacted]

FAX number [redacted]

Please return to John Merriam, Biology Department,
University of California, Los Angeles, CA 90024
[redacted]