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734

9/14/92

John Merriam
UCLA Drosophila Genmaps Database

DEPARTMENT OF BIOLOGY
405 HILGARD AVENUE
LOS ANGELES, CALIFORNIA 90024-1606
FAX [redacted]

complete your FAX number here:[redacted]

Wehrli M; Wilcon M
Department of ENT
University of Zurich
Switerland

Dear Colleagues,

We need your **help** in forming a **Restriction Map** of the *Drosophila melanogaster* genome. Our task is to collect information for a physical map of genes (clones and walks) based on restriction sites. Already a physical map of clones exists based on collected information about the band locations of clones (see Science 254: 221). The next step will provide a higher resolution framework for organizing information in the Drosophila genome data base project.

The most important information we would like to receive from you is the restriction map you have for the gene psl α. Of course we mean a map for as much of that chromosome region as you have. The best form of information for us would be a table or list of the coordinates (in Kb) of restriction sites. We will also be happy to accept a Xerox copy of any map you already have available, with the gene name, scale, symbol legend to enzymes, lab name and/or reference attached. It would be very helpful if you could include the locations of other details on a line drawing for future physical annotations. We would like to see the following features on your scale diagram:

* transcript units with origin and exons
* alternate splices or cDNAs if different from above
* sequenced intervals with accession nos.
* breakpoints of rearrangements (named)
* STS or any other landmarks

With this request we are initiating a new data base direction for us. That is to record, for each laboratory or project, the kb coordinates of the gene or chromosomal region of interest. The information you send us should represent your most up-to-date and comprehensive map. Separately we will continue to record the data for individual publications. By using records from both projects together we maintain a link between publications and the physical restriction map.

We would also like to use this opportunity to verify our records and have enclosed information we believe to be presented in individual publications. Please review each record with respect to the questions listed below. Make revisions directly on the copy and send corrected copies back to us.

* are the gene name and abbreviation informative, acceptable?
* is the information accurate?
* is the information in each report restricted to data that was presented for the first time in the corresponding paper? For example Table/Section 1 should be filled out only for those publications describing isolation of DNA clones.
* has this meeting report or communication been published? Please provide the citation.
* are the name, address, phone and Fax nos. up to date?

Thank you for your assistance with this project which will benefit all Drosophila workers. We hope to present initial results at the 1993 Drosophila meetings. To do this we need your response as soon as possible. Please check the appropriate box below and send back or Fax this form along with your list or map. John

☐ map or coordinates enclosed
☐ no map available
☐ send request to _____ at _____

One hundred twenty-five years of service.

DROSOPHILA GENMAPS DATABASE RECORD PRINTOUT - 8/27/92
Return corrections to John Merriam, UCLA Biology,
Los Angeles, CA 90026-1606; FAX [redacted]

source_numbe 734

full_location 11D7-E4
table_numbers 1,5 cross_locations

gene_name PS1alpha
gene_abbrev PS1alpha
product integrin alpha chain PS-1

1 kb_cloned_genom 25 vector_genomi EMBL3 / primary library
kb_cloned_cDNA 4.4 vector_cDNA pNB40 / 8-12hr embryonic

METHOD: expression walk_jump_org YACs 0
microcloning oligonucleotide xxx
homology transposon_tag

clonetechtext oligonucleotide to internal pretest sequence

2 rearrangement

3 T_strain
markers

5 kb_seq_genomic 0 acc_number_gen kb_seq_old 0
kb_seq_cDNA 4.4 acc_number_cDNA
comments
ORF_size 1111
ORF_functio homologous to all known integrin alpha chains
ORF_domain

6 kb_trans_size
transc_dist

7 protein_dist

8 fusion_dist

misc_info For antibody to protein, see Leptin et al, Cell56:40 (source#505) and Wilcox et al, Cell25:153. ???PapC or if???

full citation Wehrli M; Wilcon M. PS-1 alpha integrin chain sequence and distribution. Personal communication 10/90.

contact_person Wehrli, M. ph [redacted] FAX [redacted]
lab_address Department of ENT
address_line1 University of Zurich
address_line2 Switzerland
address_line3
address_line4

keywords

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UCLA
734

SANTA BARBARA • SANTA CRUZ

December 20, 1990

FAX: [redacted]

Wehrli, M. Wilcox

John Merriam
UCLA Drosophila Genmaps Database

DEPARTMENT OF BIOLOGY
405 HILGARD AVENUE
LOS ANGELES, CALIFORNIA 90024-1606
FAX [redacted]

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:

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

Wehrli M; Wilcon M. PS-1 alpha integrin chain sequence and distribution. Personal communication 10/90.

Location	Key	kb gen/cDNA	Gene name (abbreviation) product rearrangements...
11D7-E4	1,5	25 4.4	(PS1) integrin alpha chain PS-1

DROSOPHILA GENMAPS DATABASE RECORD PRINTOUT - 1/23/92

Return corrections to John Merriam, UCLA Biology,
Los Angeles, CA 90026-1606; FAX [redacted]

source_number: 734

full_location: 11D7-E4

table_numbers: 1,5 cross_locations:

gene_name: PS1alpha

gene_abbrev: PS1a

product: integrin alpha chain PS-1

1 kb_cloned_genom: 25 vector_genomic: EMBL3 / primary library

kb_cloned_cDNA: 4.4 vector_cDNA: pNB40 / 8-12hr embryonic

METHOD: expression: walk_jump_org: YACs: 0

microcloning: oligonucleotide: xxx

homology: transposon_tag:

clonetechtext: oligonucleotide to internal pretest sequence

2 rearrangement:

3 T_strain:

markers:

5 kb_seq_genomic: 0 acc_number_gen: kb_seq_old: 0

kb_seq_cDNA: 4.4 acc_number_cDNA:

comments:

ORF_size: 1111

ORF_function: homologous to all known integrin alpha chains

ORF_domains:

6 kb_trans_size:

transc_dist:

7 protein_dist:

8 fusion_dist:

misc_info: For antibody to protein, see Leptin et al, Cell56:40 (source#505) and Wilcox et al, Cell25:153. ???PapC or if???

full citation: Wehrli M; Wilcon M. PS-1 alpha integrin chain sequence and distribution. Personal communication 10/90.

contact_person: Wehrli, M. ph [redacted] FAX [redacted]

lab_address:

address_line1:

address_line2:

address_line3:

address_line4:

keywords:

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Wehrli, M. Wilcox

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Wehrli M; Wilcox M. PS-1 alpha integrin chain sequence and distribution. Personal communication 10/90.

Location	Key	kb gen/cDNA	Gene name (abbreviation) product rearrangements...
11D7-E4	1.5	>25 4.4	(PS1) integrin alpha chain PS-1

NAME: M. WEHRLI / M. WILCOX PHONE #: (0223) 402 234 (UK) FAX #: (0223) 41 21 42

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

mutant name (if any): _____

abbreviation: PS1

biochemical name (if any): INTEGRIN ALPHA CHAIN PS1

2. LOCATION: Where is your clone/walk located? 11D7 - E4 11D7-E4
(If you are using a clone from a more extended walk, what is the location of your gene? _____)

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

genomic ~~2.5~~ vector/library name: EMBL3 primary library (in these cells)

cDNA 4.4 kb vector/library name: λ-12 li embryonic λNM40

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

prior clone _____ transposon tag _____

expression _____ differential screen _____

microclone _____ oligonucleotide to internal protein sequence PCR? _____

homology _____

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

genomic _____ accession #: _____

cDNA 4.4 accession #: _____

PRODUCT: How many amino acids in the ORF? 1111

Homologous to all known integrin alpha chains
(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):

_____ When/where found? _____

7. PROTEIN (antibody detection): Where found? Leptin et al. Cell 56, 401 Wilcox et al. Cell 25, 1503

8. LAC Z FUSION stain: Where found? _____

9. MORE DETAILS: _____

#505

#014