DROSOPHILA GENMAPS DATABASE REPORT FORM pum

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

location: 3C-1D keys for this paper: FBrf0075232

Gene/mutant name: pumilio

abbreviation: pum

biochemical name/product:

(1) CLONES:

kb_genomic: >160 vector/library name: / John Tamkun

kb_cDNA: 6.45 vector/library name: pNB40 / Nick Brown

METHOD:

prior clone: Antp Complex λA78 Scott et al walk: In(3R)Msc

expression: differential screen:

microclone: oligonucleotide: PCR?

homology: transposon tag:

(2) REARRANGEMENTS: In(3R)Msc
T(3;1)FC8

(3) TRANSFORM INSERTS:

(5) SEQUENCE:

kb_genomic: accession number:

kb_cDNA: 6.8 kb accession number:

ORF-size: 1533 amino acids

ORF_function/homology group: no homology

ORF_domains:

(6) TRANSCRIPT DESCRIPTION:

transcript_size: 2 RNAs 6835 nucl. & 6674 nucl. (tentative) which differ in their distribution: 5' exons.

RNA dist. appears throughout ten embryo with enrichment at posterior pole.

(7) PROTEIN ANTIBODY:

distribution:

(8) LAC Z FUSION STAIN:

distribution:

MISC_INFO: Rescue of pum phenotype obtained with fusion gene containing nanos promoter & 5'UTR + pumilio ORF & 3' UTR

0cc

1626

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SANTA BARBARA • SANTA CRUZ

December 20, 1990

FAX [redacted]

Lehmann, Ruth
MIT Whitehead Institute
9 Cambridge Center
Cambridge, MA 02142

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:
	In(3R) MSC	
	T(1;3) FC8	

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

~~Wang C and Lehmann R (1989)~~ 30th Annual Dros. Conference

~~Barker D. and Lehmann (1990) 31~~ " "

new ref

Barker D. and Lehmann R. (1990) 31st Ann. Dros. Conf. new SN 62

Location	Key	kb gen/cDNA	Gene name (abbreviation) product rearrangements...
~~3F~~	~~1,0~~	~~30~~ ~~0~~	nanos (nos)

85C1D

204 1.6.5 pumilio (pum)

C85C1D 1;26 204/6.5 pumilio (pum)

cDNA : pNB40 P. Brown
transcript found in ovaries
0-4 hr old embryos; smaller
transcript constitutive.

6.5kb

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4/10/92

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]

Dickinson

Barker D; Moore; Kickinson L; Lehamann R
Biology
Whitehead Institute
9 Cambridge Center Rm 601
Cambridge, MA 02142

In(3R)Scr
Tp(3;1)FC8

Dear Colleagues,

Great progress has been made toward a molecular description of the Drosophila genome. This can be seen from the wall chart of Drosophila chomosomes in the Oct 11 1991 issue of Science (review: Science 254, 221-225). A summary file showing the cytological locations of cloned DNA, rearrangement break points, and transposable element insertions (called clonelist.txt) has been posted on the file server FLY.BIO.INDIANA.EDU for electronic access using FTP.

Your article, listed below, is likely to have cloning or molecular information that should be listed in the Drosophila Genmaps. Please take a few minutes to complete this form and return to me by FAX or mail. If we missed any previous papers, make copies of this form to describe each earlier paper. Include your FAX number. If you think that one of your co-authors would be a better contact for us, feel free to send them this letter with your request to answer it.

I thank you for your help as always. With your prompt and generous support I can include your results in the next update, scheiduled for June. -- John

CITATION:

Barker D; Moore; Kickinson L; Lehamann R. pumilio activates the posterior determinant nanos. 33rd Annual Drosophila Research Conference 1992.

● Barker, D.; Moore, J.; Dickinson, L.; Lehmann, R.

--> List the Gene name:	and its Chromosome location:
pumilio	85CD

KEYs 1-8: Please check off those boxes which describe THIS PAPER

Describe your results in detail on the reverse side.

- [x] 1 Genomic or cDNA clones obtained.
- [x] 2 Rearrangement breakpoints found in clone.
- [ ] 3 New location of transformed insert.
- [x] 5 Sequence obtained.
- [x] 6 Transcript obtained.
- [ ] 7 Protein described by antisera.
- [ ] 8 Promoter fusion studies.
- [ ] No cloning or molecular information about gene

DROSOPHILA GENMAPS DATABASE REPORT FORM [illegible] D. Barker

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

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WHITEHEAD INSTITUTE

8/10/92

Dear John:

Sorry it took so long to return this to you. We have recently submitted a paper to Genes & Dev. describing the cloning & functional studies of pumilio.

Doug Barker

[redacted]

fax: [redacted]

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