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9/23/92

TFIIB

John Merriam
UCLA Drosophila Genmaps Database

DEPARTMENT OF BIOLOGY
405 HILGARD AVENUE
LOS ANGELES, CALIFORNIA 90024-1606

FAX [redacted]

complete your FAX number here:

Wampler SL; Kadonaga JT
University of California, San Diego
Dept Biol
La Jolla, CA 92093

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 [redacted] or 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. -- John

CITATION:

Wampler SL; Kadonaga JT. Functional analysis of Drosophila transcription factor IIB. Genes & Develop 1992 Aug;6(8):1542-1552.

--> List the Gene name:	and its Chromosome location:
dTFIIB	31F

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

Describe your results in detail on the reverse si

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

One hundred twenty-five years of service.

DROSOPHILA GENMAPS DATABASE REPORT FORM

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

location: 31F keys for this paper: —

Gene/mutant name: Transcription Factor IIB

abbreviation: dTFIIB

biochemical name/product: dTFIIB

(1) CLONES:

kb_genomic: 3.02 vector/library name: λEMBL3

kb_cDNA: ~~1.5~~ 1.47 vector/library name: λ gt 10

METHOD:

prior clone: walk:

expression: differential screen:

microclone: oligonucleotide: PCR?

homology: Screened w/ hTFIIB cDNA (human clone) transposon tag:

(2) REARRANGEMENTS: —

(3) TRANSFORM INSERTS: —

(5) SEQUENCE:

kb_genomic: 3.02 accession number: none yet

kb_cDNA: 1.47 accession number: M91081

ORF-size: 945 bp

ORF_function/homology group: general transcription initiation factor for RNA polymerase II

ORF_domains: Zn finger, 2 direct terminal repeats, 2 amphipathic α-helices (predicted), similarity to sigma factors

(6) TRANSCRIPT DESCRIPTION:

transcript_size: 1.3 kb + 1.5 kb

distribution: —

(7) PROTEIN ANTIBODY: polyclonal; in process of making monoclonals

distribution: —

(8) LAC Z FUSION STAIN:

distribution: —

MISC_INFO: homologs of TFIIB have also been cloned in human, xenopus, + S. cerevisiae

DROSOPHILA GENMAPS DATABASE REPORT FORM

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

location: 31F keys for this paper: 1, 3, 10

gene/mutant name: TFIIB

abbreviation: TFIIB

biochemical name/product: transcription factor IIB

(1) CLONES:

kb_genomic: _____ vector/library name: _____

kb_cDNA: 1.47 vector/library name: embryonic library in lambda gt10

METHOD:

prior clone: _____ walk: _____

expression: _____ differential screen: _____

microclone: _____ oligonucleotide: _____ PCR? _____

homology: X.l. human gene as a probe transposon tag: _____

(2) REARRANGEMENTS: _____

(3) TRANSFORM INSERTS: _____

(5) SEQUENCE:

kb_genomic: _____ accession number: _____

kb_cDNA: _____ accession number: _____

ORF-size: 315

ORF_function/homology group: 79% homology found between Drosophila and human TF IIB

ORF_domains: _____

(6) TRANSCRIPT DESCRIPTION:

transcript_size: 1.5 ; 1.3

distribution: _____

(7) PROTEIN ANTIBODY:

distribution: _____

(8) LAC Z FUSION STAIN:

distribution: _____

MISC_INFO: Curated