MNW 5/27/92 FBrf0075204

GTF1

2854

4/8/92

John Merriam
UCLA Drosophila Genmaps Database

complete your FAX number here:

Frank L; Cohen R
Biochemistry
Columbia University
630 West 168th Street
New York, NY 10032

FAX [redacted]

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, schelduled for June. -- John

**CITATION:**

Frank L; Cohen R. Cloning and characterization of the putative female germ-line transcription factor GTF-1. 33rd Annual Drosophila Research Conference 1992.

| --> List the Gene name: | and its Chromosome location: |
|---|---|
| (as yet unnamed) | 82E |

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

DROSOPHILA GENMAPS DATABASE REPORT FORM

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

location: 82E keys for this paper: 1,5

Gene/mutant name: ovarian nuclear factor_ CAACAA

abbreviation: ONE-CAACAA

biochemical name/product:

(1) CLONES:

kb_genomic: ✓ 13.4 vector/library name:

kb_cDNA: ✓3.4 (combined) vector/library name: Kalfayan ovarian expr. lib.

METHOD:

prior clone: walk:

expression: ✓ differential screen:

microclone: oligonucleotide: PCR?

homology: transposon tag:

(2) REARRANGEMENTS:

(3) TRANSFORM INSERTS:

(5) SEQUENCE:

kb_genomic: 3.4 accession number: ~~NOT ENTERED YET~~

kb_cDNA: 3.15 accession number:

ORF-size: 986 aa

ORF_function/homology group: specifically ^recognizes the CAACAA element of the female germline "enhancer" (Dev. 114, 181-91 (1992)); no homologs formal

ORF_domains: NTP binding site, acidic domain, nuclear localization

(6) TRANSCRIPT DESCRIPTION:

transcript_size: 3.2 kb

distribution: at least 50x higher concentration in ovaries than in female carcass or male

(7) PROTEIN ANTIBODY:

distribution: (incomplete)

(8) LAC Z FUSION STAIN:

distribution: strong ♀ germline expression in egg chambers stage ~4-10, predominatly in nurse cells

MISC_INFO: GNF-1 binds the hsp 26 promoter