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4/17/92

John Merriam
UCLA Drosophila Genmaps Database

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

complete your FAX number here:

18W

Eldon E; Bellen H
HHmI/ Molecular Genetics
Byalor College of Medicin
One Baylor Plaza
Houston, TX 77030

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:

Eldon E; Bellen H. Possible roles of maternally and zygotically expressed 18-wheeler in embryonic patterning. 33rd Annual Drosophila Research Conference 1992.

--> List the Gene name:	and its Chromosome location:
18-wheeler	56F

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.
- [x] 6 Transcript obtained.
- [x] 7 Protein described by antisera.
- [ ] 8 Promoter fusion studies.
- [ ] No cloning or molecular information about gene

E. Elder 11.13

DROSOPHILA GENMAPS DATABASE REPORT FORM

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

location: 56F keys for this paper: 7

Gene/mutant name: 18-wheeler

abbreviation: 18w

biochemical name/product:

(1) CLONES:

kb_genomic: ~30 kb vector/library name: λDASH

kb_cDNA: 5.2 kb vector/library name: λgt10, λgt11

METHOD:

prior clone: ✓ walk:

expression: ✓ differential screen:

microclone: oligonucleotide: PCR?

homology: transposon tag:

(2) REARRANGEMENTS:

(3) TRANSFORM INSERTS:

(5) SEQUENCE:

kb_genomic: accession number:

kb_cDNA: 5.2 kb accession number: not yet published

ORF-size: 4.2kb 1389 aa

ORF_function/homology group: transmembrane protein structural similar to Toll

ORF_domains: extracellular leucine-Rich Glycoprotein 24 AA repeats
intracellular - Toll + interleukin-1 Receptor cytoplasmic domains.

(6) TRANSCRIPT DESCRIPTION:

transcript_size: ~5.8kb

distribution: complex: expressed by NC during oogenesis, zygotically beginning ~ Cellular Blastoderm dim sense of stripes. Expressed in distinct patn throughout embryogenesis. Also expressed in larval CNS + imaginal discs.

✓ (7) PROTEIN ANTIBODY: Rat made against extracellular domain

distribution: uniform in early embryos. Not yet well characterized

(8) LAC Z FUSION STAIN:

distribution: very similar to in situ pattern.

MISC_INFO:

DT 4/16/93

DROSOPHILA GENMAPS DATABASE RECORD PRINTOUT - 8/26/92
Return corrections to John Merriam, UCLA Biology,
Los Angeles, CA 90026-1606; FAX [redacted]

source_numbe 2933

MNJ 7/30/93

full_location 56F 6-9

table_numbers 1,5,6,7,8, 2,3 cross_locations

gene_name 18-wheeler

gene_abbrev ~~btwh~~ 18-w

product 18W

1 kb_cloned_genom 30 vector_genomi lambda DASH II

kb_cloned_cDNA 5.2 vector_cDNA lambda gt10, gt11

METHOD: expression xxx walk_jump_org YACs 0

microcloning oligonucleotide

homology xx with efo transposon_tag [redacted]

clonetechtext prior clone ~~[illegible]~~ efo.

2 rearrangement 2 insertions + 3 def. small by excision

3 T_strain

markers

5 kb_seq_genomic 500bp acc_number_gen kb_seq_old 0

kb_seq_cDNA 5.2 acc_number_cDNA not available

comments

ORF_size 4.2 kb

ORF_functio transmembrane protein structural similarity to Toll

ORF_domain extracellular leucine-rich glycoprotein 24 aa repeats/intracellular-Toll & IL-1R

6 kb_trans_size 5.8

transc_dist complex: expressed by NC during oogensis, zygotically beginning; cellular Blast-

7 protein_dist Abs made against extracellular and intracellular domains. Uniform in early embryo

8 fusion_dist very similar to in situ pattern

misc_info More ORF-domains & interleukin-1 receptor cytoplamic domains. More transc-dist derm in series of stripes. Expressed in district pattern throughout embryogenesis also expressed in larval CNS & imaginal discs. More protein_dist Not yet well characterized.

full citation Eldon E; Bellen H. Possible roles ~~of~~ maternally and zygotically expressed 18-wheeler in embryonic patterning. 33rd Annual Drosophila Research Conference 1992.

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keywords