FBrF0075235

2532

S10

12/17/91

FAX:

John Merriam
UCLA Drosophila Genmaps Database

Atkinson N; Robertson G; Ganetzky B.
Department of Zoology
The University of Texas at Austin
Austin, TX 78712-1064

FAX [redacted]

310

Help!

Your article, listed below, is likely to have cloning or molecular information that should be listed in Drosophila Genmaps. As you know, the clone list has been useful to Drosophila workers in finding start points for their walks. The database is organized by references, so that the original cloning paper from each lab is cited as key #1, with their subsequent papers cited by subject. 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 [redacted] and your local File Transfer Program.

Please take a few minutes to complete this form and return to me by FAX or mail. On separate sheet(s) we print out the information we have already from your lab on this gene. Send back to us any corrections you may have. 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 on the bulletin board. -- John

CITATION:

Atkinson N; Robertson G; Ganetzky B. CSH Mol. Neur. of Dros. Abstracts 1991.

--> List the Gene name: slowpoke (slo)

and its Chromosome location: 96A17

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 RECORD PRINTOUT - 1/5/95
Return corrections to John Merriam, UCLA Biology,
Los Angeles, CA 90026-1606; FAX [redacted]

source_number 2532

full_location: 96A17
table_numbers: 1,2,5,6 cross_locations:

gene_name: slowpoke
gene_abbrev: slo
product: Ca-2+-activated K+ channel structual component

1 kb_cloned_genom: 100 vector_genomi: NOTBamNOT-CoSpeR/Tamkun J;Scott M
kb_cloned_cDNA: 5 vector_cDNA: lambdazAP/Schwarz T et al

METHOD: expression: walk_jump_org: xxx YACs: 0
microcloning: oligonucleotide:
homology: transposon_tag:

clonetechtext: Walk to s10-4 inversion end point from vicinit of E(spl)

2 rearrangement: slo-3: Deletion 95E6-7 to 96A18, 94C9-D1 to 96E6-7 has been inserted into chrom2. slo-4 is inversion 96A17 to 96F5-8. slo-8 deletion 96A2-9 to 96D2-4

3 T_strain:
markers:

5 kb_seq_genomic: 0 acc_number_gen: kb_seq_old: 0
kb_seq_cDNA: 5 acc_number_cDNA: M69053
comments:
ORF_size: 1184
ORF_functio: similarity to voltage gated K+ channels- not cloned on this basis
ORF_domain: motifs for EF hand (CA-2= binding motif), ATP binding site cAMP phosphorylation

6 kb_trans_size: 11, 5.8
transc_dist: so far have confirmed in Adult heads, embryos in CNS and PNS

7 protein_dist:

8 fusion_dist:

misc_info: more ORF_domains site, PKC dependent phosphorylation site.

full citation: Atkinson N; Robertson G; Ganetzky B. CSH Mol. Neur. of Dros. Abstracts 1991.

contact_person: Atkinson N. ph FAX
lab_address: Department of Zoology
address_line1: The University of Texas at Austin
address_line2: Austin, TX 78712-1064
address_line3:
address_line4:

keywords

[redacted]

2532

Df(3R)s103
Df(3R)s108

12/17/91

John Merriam
UCLA Drosophila Genmaps Database

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CITATION:

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--> List the Gene name:	and its Chromosome location:
slowpoke (slo)	96A17

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

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- [ ] No cloning or molecular information about gene

DROSOPHILA GENMAPS DATABASE REPORT FORM MNL 2/24/96

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

location: 3-38 96A17 keys for this paper: 1,5,6

Gene/mutant name: slowpoke

abbreviation: slo

biochemical name product: Ca^{2+}-activated K^+ channel structural component

(1) CLONES:

kb_genomic: ~100 kb vector/library name: NotBamHot-CoSpeR / John Tamkun + Matt Scott

kb_cDNA: ~5 kb vector/library name: λZAP / ~~Schwarz~~ Tom Schwarz et al while in Jan's lab

METHOD:

prior clone: walk: ✓ Walk ~~from~~ to inversion endpoint from vicinity of EF

expression: differential screen: slo^4

microclone: oligonucleotide: PCR?

homology: transposon tag:

(2) REARRANGEMENTS: slo^3 Deletion 95E6-7 to 96A18, 94C9-D1 to 96E6-7 has been inserted into chrom 2. / slo^4 is inversion 96A17 to 96F5-8 / slo^8 is deletion 96A2-9 to 96D2-4

(3) TRANSFORM INSERTS:

(5) SEQUENCE:

kb_genomic: ~~100 kb~~ accession number:

kb_cDNA: >5 kb accession number: GENBANK M69053

ORF-size: >1184 Amino Acids

ORF_function/homology group: similarity to voltage gated K^+ channels — Not cloned on this basis

ORF_domains: motif for EF hand (Ca^{2+} binding motif), ATP binding site cAMP phosphorylation site, PKC dependent phosphorylation site.

(6) TRANSCRIPT DESCRIPTION: ✓

transcript_size: 5.8 & 11 kb seen

distribution: ~~100~~ so far have confirmed in adult heads, embryos in CNS + PNS

(7) PROTEIN ANTIBODY:

distribution:

(8) LAC Z FUSION STAIN:

distribution:

MISC_INFO: