ABrf00 77934

Genetiska Institutionen
Lunds Universitet

Institute of Genetics
University of Lund
Sölvegatan 29
S-223 62 LUND, Sweden

SEE ISING FILE FOR GENETIC POSITIONS

19890517

Dr. Claire Henchcliffe
Department of Genetics
Downing Street,
Cambridge
England, CB2 3EH

TO SEND: w; dp fy^2 bw / Cy^0
net fy^2
fy^2 bw

NB Balancer "SM5" has dp

Dear Dr. Henchcliffe,

crosses to fy?

Separately I'm sending you the stocks reqiured and some more covering 28C to 29F. Before you start a big work, however, it may be wise to write Dr. Gerold Wustman at Martin-Luther-Universität Halle-Wittenberg. As you can read in a copy of a recent letter I got from him he has saturated the region from 28D4 to 30D. I think you can get a rapid localization of fuzzy if you are allowed to use his deficiencies. In case your localization later needs more narrow limits you can always select a suitable stock among them I sent.

ALSO IN STOCKS: TE62 28A

cytology The stocks sent are:

—	29F	2(TE35)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE35/+ — checked
		6(TE35)	w; al dp corr TE35 b/SM5,Cy
—	28C	3(TE49)	y w/y$^+$Y;TE49 nub b
	28D	2(TE80)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE80/+
		3(TE80)	w;corr TE80 b/SM5,Cy
		5(TE80)	w;corr apr.TE80/SM5,Cy (has w^a instead of w$^+$)
—	29A3-5	2(TE109)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE109/(+) - checked
		3(TE109)	w;TE109 b/SM5,Cy
—		2(TE128)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE128/+ - checked
	29A	4(TE128)	w;al dp corr TE128/SM5;Cy
—	29E	2(TE130)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE130/+
	29C	2(TE142)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE142/(+) — checked
—		3(TE142)	w;TE142(cn)/SM5,Cy
	28CF?	4(TE168)	w;TE168(sp)/SM5,Cy
=		7(TE168)	w;corr TE168
mixed	— 28CD	2(TE177)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE177/(+) - checked
		3(TE177)	w;TE177/(SM5,Cy)
	— 28D	2(TE192)	C(1)DX,y w f/y$^+$Y x y w$^-$rst$^-$/y$^+$Y;TE192/(+)

All are w$^+$ in TE except for TE49 and one stock of TE80 which are w^a. All are visible as extra bands (usually 2) in the gianth chromosomes except for TE168, that has not rst$^+$ (as all the others) and has been marked with a white probe for the localization. If you are utilizing any of these TEs and get a more narrow or different localization than I have in my list, I

would be glad to be informed. I can also tell you that my data for corr gives a genetic localization of 27.5±0.5 which probably corresponds to division 27. I would also be glad if you give Mike Ashburner copies of the two TE lists as there are many new positions and some correction compared to the list he got last year.

From the curves over "Genetics in relation to Cytology" you can see that there is a concentration of TE insertions in regions 28-31 as well as in some other regions (for example 21-22D) aso. Contrary there are no insertions in regions 26-27. I´m going to show this result on a poster in Marseille. It would be nice to meet you there in September.

If you are going to use some of my stock, there are two things you must be aware of. 1. In some old stocks I sometimes find the old position replaced by a new one. Therefore, it is wise to check the stocks cytologically or genetically before you start a big experiment. 2. The C(1)DX,y w f attached-X chromosome has a sublethal region which is covered by a + allel in the y^+Y -chromosome. If you cross such virgin females to ordinary XY males you will probably get no or few sons.

Finally, I would be glad to get some of your stocks with fuzzy (if possible in combination with w and also another marker in 2L) I will have it as a genetic marker.

Please tell my greetings to Mike and David.

Yours sincerely

Gunnar Ising