from Cynthia Cass

FBrf0094392

/

l (3) MM3-5

Dr. Ron Woodruff
Department of Biological Sciences
Bowling Green State University
Bowling Green, Ohio 43403

June 13,1993

Dear Ron,

Thank you for providing the facility to store these stocks. As I mentioned, these [redacted] lethal mutations that fall within the 98DE region.

are recessive lethal mutations that fall within the 98DE region.

I wanted to make mutations in *Hrb98DE* (hnRNP RNA binding), a gene that encodes a class of pre-mRNA binding proteins (Haynes et al., (1990) Mol. Cell. Biol. 10:316; Raychaudhuri et al., (1992) Mol. Cell. Biol. 12:847.) located about 15 kb distal to forked head (*fkh*). Therefore, I mutagenized chromosomes with EMS and screened for recessive lethal mutations using the *Df(3R)fkh[XT7]* deficiency chromosome (Weigel et al., (1989). Cell 57:645.).

All stocks are **ri/TM3, ri, p[P] sep bx[34e] Sb*, where * indicates the unknown mutation. Some have white eyes, as indicated, and some do not.

I recovered many mutations which fell into several complementation groups (Table 2). In Table 2, a plus sign (+) indicates complementation, an L indicates lethality, or lack of complementation, and "nd" indicates crosses not done. I could identify the *fkh* complementation group by crossing to the fkh[XT6] allele.

None of these recessive lethals were rescued by complementation with transgenic copies of *Hrb98DE* genomic sequences, nor by *Hrb98DE* cDNA sequences.

I have sent a second representation of the complementation groups, where overlapping lines indicate lack of complementation, and have circled the enclosed stocks. I have never had mites, being the only fly person in this entire building.

Please let me know if this stuff arrives safely, and that my flies have survived the journey. Also, if there is more documentation that you would like, or more details, please don't hesitate to contact me.

Thanks again!

Sincerely,

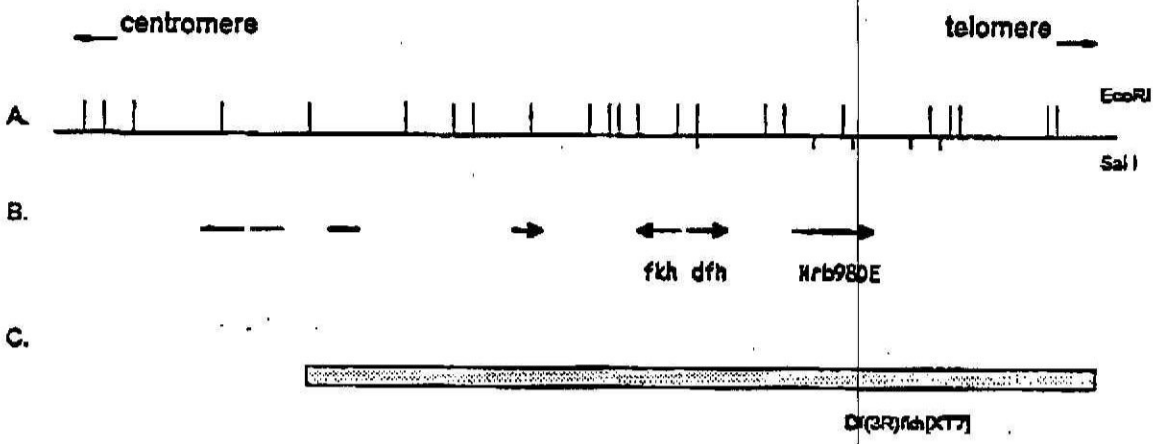
Cynthia Cass

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Post-it™ Fax Note [redacted]	Date 7/17/97	# of pages ▶ 4
To Rachel Drysdale	From Kathy Matthews	
Co./Dept. Fly Base	Co.	
Phone #	Phone #	
Fax # [redacted]	Fax # [redacted]	

[redacted]



Modified from Weigel et al., 1989
Cell 57:645-658

This is the correct spatial relationship between fkh and Hrb98DE.

Fkh alleles

Table 2

Table 2

	df fkh XT7	df SH6	fkh XT6	M 2 11	M 2 12	SH 1	M 2 5	M 2 13	M 2 3	M 3 3	SH3	M 3 7	M 3 1	M 1 5	M 3 12	CD 2	M 2 17	M 3 18	CD 1	SH2	M 3 5	M 3 15	M 3 11	M 3 16	M 3 13
df fkhXT7	\	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
→ df SH6		\	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	+	+	+	+	+	+	+	+
fkh XT6			\	L	L	L	L	L	+	+	+	+	+	+	+	nd	+	+	nd	+	+	+	+	+	+
M 2 11				\	L	L	L	L	+	+	+	+	+	+	+	+	+	nd	+	nd	+	+	+	nd	+
M 2 12					\	L	L	L	+	+	+	+	+	+	+	nd	+	nd	nd	nd	+	+	+	nd	+
SH 1						\	L	L	+	+	+	+	+	+	+	nd	+	nd	nd	nd	+	+	+	nd	+
M 2 5							\	L	+	+	+	+	+	+	+	nd	+	nd	nd	nd	+	+	+	nd	+
M 2 13								\	+	+	+	+	+	+	+	nd	+	nd	nd	+	+	+	+	nd	+
M 2 3									\	L	L	+	+	+	+	+	+	+	+	+	+	+	+	+	+
M 3 3										\	L	+	+	+	+	+	+	nd	+	+	+	+	+	+	+
SH3											\	+	+	+	+	nd	+	+	nd	+	+	+	+	+	+
M 3 7												\	L	L	L	L	L	nd	+	+	+	+	+	+	+
M 3 1													\	L	+	+	+	+	+	+	+	+	+	nd	+
M 1 5														\	L	L	+	+	+	+	+	nd	+	+	+
M 3 12															\	L	L	nd	+	+	+	+	+	+	+
CD 2																\	L	+	+	nd	nd	nd	nd	nd	nd
M 2 17																	\	+	+	+	+	+	+	+	+
M 3 18																		\	L	L	nd	+	nd	+	+
CD 1																			\	nd	nd	nd	nd	nd	nd
SH2																				\	+	+	+	+	+
M 3 5																					\	L	L	L	+
M 3 15																						\	+	+	+
M 3 11																							\	+	+
M 3 16																								\	+
M 3 13																									\

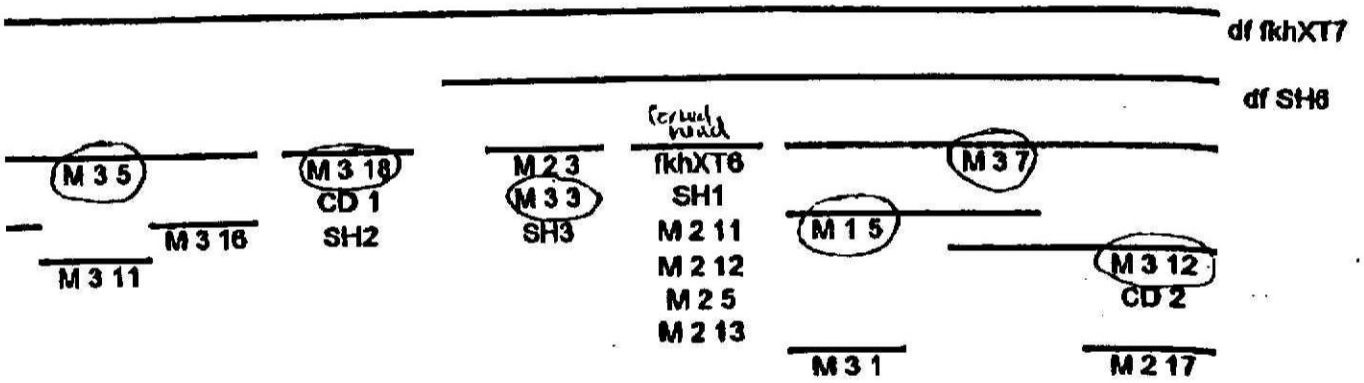
→ mutants fall into two classes, those that complement the SH6 chromosome, and those that do not. / Showed by Southern blot analysis (data not shown) that SH6 chromosome is deficient for Hrb98DE. ∴ Those mutations that complement the SH6 chromosome cannot be Hrb98DE alleles, nor are they fkh alleles. But I don't know what they are.

Stocks sent.

Order cubes [illegible]

M3 13

M3 15



Overlapping lines indicate lack of complementation

~~~~ necessarily reflect spatial relationship of chromosome
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