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June 18, 1998

Dr. Kathy Matthews
Department of Biology
Indiana University
Bloomington, IN 47405-6801

Dear Kathy,

Here are two published UAS strains, both in the original pUAST (w^+) vector of Andrea Brand. The first is UAS-tra^F containing the female-specific cDNA of the *transformer* gene and which dominantly feminizes tissues in males. The stock carries *w* on the *X* and is homozygous for the insert on the second chromosome. We published this in:

Ferveur, J.-F., Stö rtkuhl, K., Stocker, R.F. and Greenspan, R.J. (1995) Genetic feminization of brain structures and changed sexual orientation in male *Drosophila melanogaster*. Science 267: 902-905.

and

Ferveur, J.-F., Savarit, F., O'Kane, C.J., Sureau, G., Greenspan, R.J. and Jallon, J.-M. (1997) Genetic feminization of pheromones and its behavioral consequences in *Drosophila* males. Science 276: 1555-1558.

It was made by taking a 1 kb EcoRI fragment from Mike McKeown's pE6.9.1 plasmid and ligating it into the RI site of pUAST. The sequence of the cDNA is shown in the third sequence line of Figure 3 in Boggs et al. (1987) Cell 50: 739-747.

The second is UAS-PKCi which expresses the pseudo-substrate domain of PKC itself, a peptide that inhibits PKC. The clone came from Dean Smith (then in Zuker's lab), but they never used it or published it. The stock carries *w* on the *X* and is homozygous for the insert on the third chromosome. The sequence of this 96 bp fragment (including its Kpn and RI sites) is:

2A or (4A)? insertion? Both on 3.

GTACC AAA ATG AAG AAT CGT CTA AGG AAG GGT GCG ATG AAG CGA AAG GGT CTC GAA ATG GTC AAT GGT CAT TAA TAA AAT GGT CTA AAT AAA GAATT

Our first publication on it is in:

Broughton, S.J., Kane, N.S., Arthur, B., Yoder, M., Greenspan, R.J. and Robichon, A. (1996) Endogenously inhibited protein kinase C in transgenic *Drosophila* embryonic neuroblasts regulates the outgrowth of type I and II processes of cultured mature neurons. J. Cellular Biochem 60: 584-600.

and

Kane, N.S., Robichon, A., Dickinson, J.A. and Greenspan, R.J. (1997) Learning without performance in PKC-deficient *Drosophila*. Neuron 18: 307-314.

Yours truly,

Ralph J. Greenspan, Ph.D.
Senior Fellow in Experimental Neurobiology

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Lynn Crosby
Flybase
Harvard

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Hi Lynn--

Here are a couple of other insertion names for your review. Both from Ralph Greenspan. I'm sending his letter along.

1. P{w[+mC]=UAS-tra[F]}20J7
Came as line 20J7. X insert.

2. P{w[+mC]=UAS-PKCi}4A
Came as line 4A.3. 3rd insert. Called "4A" in paper.

Thanks,
Kevin