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From: Mrs. E.J. Whitfield
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21st August, 1995

Dear Colleague,

FlyBase has recently curated sequences from your laboratory coding for serotonin transporters.

Inspection of the two sequences from:
Demchyshyn et al., 1994, Proc. natn. Acad. Sci. USA. 91(11): 5158--5162 (U04809)
Corey et al., 1994, Proc. natn. Acad. Sci. USA. 91(3): 1188--1192 (U02296)
suggests to us that they may be the same, for example they are identical in amino acid sequence after residue 68 in sequence U04809 and 31 in sequence U02296. This data proposes they may have different N-terminal exons (or a sequencing problem with one or other).

The Toronto sequence (U04809) has been mapped to 60C on 2R but as far as I know the Caltech sequence has not been mapped.

It would help FlyBase if you could tell use whether or not these sequences are from the same or different genes.

The obvious gene symbol (if they are the same) would be SerT - Serotonin Transporter. Is that agreeable ?

Thank you for your help.

Eleanor Whitfield.

Michael Ashburner and Eleanor Whitfield for FlyBase.

The Clarke

FAX

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DATE: August 24 , 1995

TO:

Drs. M. Ashburner & E. Whitfield
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FROM:

Dr. Hyman B. Niznik, Section Head
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MEMO:

RE: The*Dro* SerT Gene

Dear Drs. M. Ashburner & E. Whitfield

Thank you for your letter of August 21 requesting information as to whether the Caltech sequence [U02296] and our sequence [U04809] encoding a functional fly Serotonin like transporter are identical. To our knowledge they appear to be so. I have spoken to Dr. Lester and it appears that an error [missing one C] in the reported U02296 sequence is present. Although the possibility of splice variants exists, both reported fly transporter sequences appear to be products of the same gene . I hope this info will be helpful to you,

Sincerely

H.B. Niznik