

Newmeyer, D., C. S. Taylor and D. C. Bennett.

Gene sequences in linkage group 1.

The following sequences have been determined since publication of the map in Table 2 of Newmeyer and Taylor (1967 Genetics 56: 771). All sequences are based on 3-point crosses. An asterisk indicates that the order depends on less than three critical crossovers. The data will be published elsewhere.

1) cyt-1 (C115), cys-5 (35001)*, and leu-4 (D133)* are all between leu-3 (R156) and ser-3 (47903). (The relative order of cyt-1, cys-5, and leu-4 has not been determined directly, but cys-5 and leu-4 are very close to wr-3, while cyt-1 appears to be considerably further from wr-3.)

2) ser-3 is left of un (55701t).

3) sor (DS)* is between suc (66702) and arg-1 (8369). (sor (DS) is a sarbaw-resistant mutant derived from David Stadler's patch. Our limited evidence suggests that sor (DS) and patch may not be due to the same gene. sor (DS) has not been tested for allelism with Klingmüller's sor (15).)

4) me-10 is right of eth-1. (me-10 (PD1t) was isolated by Peter Dodd (Univ. of Washington); probably UV, 74A.)

5) un (46006t)* is left of hist-2 (Y152M14).

6) dot* (P789) is right of thi-1 (56501).

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