Perkins, D. D. and T. Ishikawa. Locus designations for irreparable temperature-sensitive mutants.

Irreparable temperature-sensitive mutants hove been mopped at two new loci, bringing to eight the number of mopped conditional lethals of this type. It is proposed to call the new loci "n-7 and "n-8, and to redesignate the six previously mopped irreparable temperature-sensitive genes as shown in Table 1. "n-7 and -8 originated in experiments of Inoue and Ishikawa (1970 Japan. J. Genet. 45: 357) at survivors of filtration enrichment of UV-treated conidia from wild type 74A. The original "n-8 isolate contained reciprocal translocation T(I;V)T27M9 from which it has been separated. T53M50 was originally called un(31) ond T27M9 was coiled "n(I) by Inoue and Ishikawa.

Table 1. loci *of irreparable* temperature-sensitive *genes.*

Proposed locus symbol	Isolation No.	Former locus symbol	Linkage group and arm	Reference for location
un-1	44409	un (44409)	IR	Perkins et al. 1969 Genetica 40:247.
un-2	46006	un (46006)	IC	Perkins et al. 1969
un-3	55701	un (55701)	IL	Howe 1962 Microb. Genet. Bull. 18:12.
un-4	66204	un (66204)	VIL	Stadler 1956 Genetics 41:528.
un-5	b39	un (b39)	IL	Kuwana 1960 Japan. J. Gene+. 35:49. Perkins et al. 1969.
"n-6	83106	"n (83106)	IIIR	Perkins et al. 1969
""-7	T53M50		IR	
un-8	T27M9		IVR	

The newly proposed symbols in Table 1 hove the advantage of brevity and of consistency with other series of "mimic" loci that shore a common phenotype. When precise information becomes available regarding the characteristic defect of a particular "n mutant, a decision con be mode whether to replace the present symbol with one that is more explicit.

Table 2. Mop locations of new un mutants.

Mutant	Sequence and % recombination	Numbers Parental	Singles 1	Singles 2	Doubles 1,2
"n-7 (T53M50)	un-7 (4) aur (22) os-1	44	2	13	0
	act-1 (12) al-1 (1) un-7	74	10	1	0
"n-8 (T27M9)	cys-10 (47) "n-8 (5) col-4	39	38	4	0
	"n-8 (0) pyr-1	47	0		
	centromere (IVR→VIR)ALS159 "n-8 (by duplication - coverage)				

Linkage relations of the new mutants ore summarized in Table 2. The isolation number for the al-1 allele is ALS4. "n-8 is known to be right of the centromere in IV because it is heterozygous in duplications from T(IVR→VIR)ALS159. - - - Department of Biological Sciences, Stanford University, Stanford, California 94305 and Institute of Applied Microbiology, University of Tokyo, Bunkyo-ku, Tokyo 113, Japan.