Informa	tion about molecul	ar changes in	am mutants	osle Lysidi- Mat
Mutant	Peptide analysis	DNA sequence	and and a second se	Enzyme properties
* <u>am1</u>	Ser336 \rightarrow Phe	$TCC \longrightarrow TTC$	inferred	Enzymically inactive - failure to bind NADPH
am2	His142 → Gln	$CAC \longrightarrow GAC$	inferred	Stabilised in inactive conformation, heat labile
am21	Second-site ?	" + ?		Activated by warming
<u>am3</u> bea	$Glu393 \longrightarrow Gly$	$GAG \longrightarrow GGG$	2000 2	Stabilised in inactive conformation, reduced negative charge
am3a	Second site ?	TAD C	1 200	Greatly increased Kms for NH4. NAD, glutamate
<u>am3b</u>	Second site ? >	$GAG \longrightarrow GGG$		Needs activation by high α -oxoglutarate + NADPH
am3-18	Second site ?			Needs activation by EDTA
am4	Gly112 → Asp (inferred)	$GGC \longrightarrow GAC$	1	Enzymically inactive
am6	Various double f/s sequences	Single by de in Ser1 code		No enzyme frameshift
am7	Gly372 → Ser	$GGT \longrightarrow TGT$	inferred	Enzymically inactive
am8	bringil dily 300	200 . C9: 80 h	→ GT	No enzyme - intron 2 not spliced or frameshift splice
am9	1 and ungubl. (* 1	1671-1673 CH		No enzyme - frameshift
am14	Leu20> His	$CTPy \rightarrow CAP_3$	v inferred	Osmotically reparable - weak 4-ary structure
am14R1	His20> Tyr	$CAPy \longrightarrow TAPy$	v inferred	Both improved stability but further improved by
am14R5	Second site ?	?		high osmotic pressure
<u>am15</u>	Various double f/s sequences	Deletion of AAC Asn56 co	odon	No enzyme - frameshift
am17	Suppressible to Tyr313	Gln313 CAG - (inferred)	\rightarrow TAG	No enzyme
am17RN3	5 Gln313 → Tyr	TAG \longrightarrow TAPy	inferred	Both high Km glutamate
am17RU4	Gln313→ Leu	$TAG \rightarrow TTG$	inferred)	Poen urgn vm Sturamars

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