

Kevin et al.,

We are *delighted* to submit the following strains to the *Neurospora crassa* collection. All strains submitted are in slants having vogel's medium with 2% sucrose, without additional supplements. However, several of the strains will senesce upon serial transfer, thus it is likely that you will see declined growth with each transfer. We've provided 2 slants of the sickest of the strain, M6-19.

Strain	Background	Mating type	Attribute	Ref
M2225	Mauriceville	A	Mauriceville-1c strain (FGSC 2225) obtained from the Lambowitz lab in 1994. Contains a 3.6 kb circular mitochondrial plasmid, pMauriceville.	Collected by David Perkins
MS4416	Mauriceville	A	Mauriceville-1c strain (FGSC 2225) that was part of the Metzenberg mapping strain collection. Obtained from Lambowitz lab in 1994. Strain senesces at 6-10 transfers at 37° C and contains a variant of the pMauriceville plasmid.	1
LL-25	Mauriceville	A	Spontaneous mutant of MS4416 that escapes senescence (aka Long-Lived), yet still contains a variant plasmid. Transfer 25	1
LL-100	Mauriceville	A	Spontaneous mutant of MS4416 that escapes senescence, yet still contains a variant plasmid. Transfer 100.	
LL-450a	Mauriceville	A	Spontaneous mutant of MS4416 that escapes senescence, yet still contains a variant plasmid. Transfer 450.	
LL-500b	Mauriceville	A	Spontaneous mutant of MS4416 that escapes senescence, yet still contains a variant plasmid Transfer 500.	
74A-450	Oakridge	A	Wild type, 74-OR23-1A- obtained from Lambowitz lab in 1994. Subjected to 450 transfers at 37° C	
M6-19	Mauriceville	A	Spontaneous mutant of M2225 that senesces without formation of a variant plasmid or mtDNA rearrangement	2
LL/MST-6	Mixed	A	A long-lived progeny from a cross of LL (7) with an pMS plasmid-containing strain.	
LL/MST-12	Mixed	?	A senescent progeny from a cross of LL (7) with an pMS plasmid-containing strain.	

References:

1. Stevenson, C.B., A.N. Fox, and J.C. Kennell. 2000. Senescence associated with the over-replication of a mitochondrial retroplasmid of *Neurospora crassa*. *Mol. Gen. Genet.* 263:433-444.
2. Fox, A.N. and J.C. Kennell. 2001. Association between variant plasmid formation and senescence in retroplasmid-containing strains of *Neurospora spp.* *Current Genetics* 39:92-100.

As an added 'bonus,' I've also included clones of two mitochondrial plasmids.

typo confirmed by JK
by e-mail 3/7/16