

Dept. of Microbiology
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Accession
number

SPECIES Neurospora crassa MATING TYPE A

8949

GENOTYPE vma-3-bcr-31

DESIGNATION OF MUTANT ALLELE(S) bcr-31

LINKAGE GROUP(S) VR STRAIN DESIGNATION IF WILD-TYPE _____

YOUR STOCK NUMBER FOR THIS CULTURE _____
include stock no. from other collections

ORIGIN OF STOCK Obtained by UV mutagenesis of strain vma-3-bfr-33

PUBLISHED REFERENCES not yet published

COMMENTS

Vma-3 encodes a 16 kDa integral membrane subunit of the vacuolar ATPase. This strain has two mutations. The ACT codon for thr 32 has been changed to ATT (ile). The GTT codon for val 55 was changed to GCT (ala). Bafilomycin and concanamycin are antibiotics that inhibit the enzyme. Using a strain that is resistant to bafilomycin, but not concanamycin (strain bfr-33) mutants were selected by growth on Vogel's medium, adjusted to pH 7.2, containing 0.5 uM concanamycin. This mutant strain can be identified by ability to grow on this same medium. Other than a slightly slower growth rate on normal media it has no other visible mutant phenotype.

YOUR NAME Barry Bowman DATE 5 Aug 2002