

Dept. of Microbiology
Univ. of Kansas Medical Center
Kansas City, KS 66160-7420

Accession
number

SPECIES Neurospora crassa MATING TYPE A

8956

GENOTYPE vma-3-bfr-21 al-3

DESIGNATION OF MUTANT ALLELE(S) bfr-314 al-3

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 74A and subsequent cross to al-3

PUBLISHED REFERENCES not yet published

COMMENTS

Vma-3 encodes a 16 kDa integral membrane subunit of the vacuolar ATPase. In this strain the TTC codon for phe 136 was changed to CTC (leu). Bafilomycin and concanamycin are antibiotics that inhibit the enzyme. Strains resistant to bafilomycin were selected by growth on Vogel's medium, adjusted to pH 7.2, containing 0.5 μ M bafilomycin. The bfr-21 strain was then crossed with *al-3* to obtain the double mutant. This mutant strain can be identified by ability to grow on this same medium. Other than a slightly slower growth rate on normal media the *vma-3* mutation has no other visible mutant phenotype. The *al-3* gene is approximately 5 map units from *vma-3* and can be used as a visible marker to follow the *vma-3-bfr-21* allele in crosses.

YOUR NAME Barry Bowman DATE 5 Aug 2002