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Map of Plasmid pRAL1

We reported previously the development of a general method for cloning Neurospora nuclear genes by sib selection, using a library of N. crassa genomic DNA fragments in plasmid pRAL1 (Akins and Lambowitz Mol. Cell. Biol. 5:2272-2278, 1985). Fig. 1 is a revised map of plasmid pRAL1. The size of the plasmid is measured more accurately as 4.7 kb, rather than 4.4 kb reported previously. In addition, the position of the EcoR1 site in the qa-2^+ gene was indicated incorrectly in the previous map. The sizes of the EcoR1 fragments are 2.8 and 1.85 kb.

We and others have now cloned at least ten genes using the pRAL1 library: nic-1 and inl (Akins and Lambowitz, Molec. Cell. Biol. 5:2272-2278, 1985), cyt-18 (Akins and Lambowitz, unpubl.), cyt-(297-24) Kuiper, de Vries, Akins and Lambowitz, unpubl.), cyt-4 (Serizawa, Akins and Lambowitz, unpubl.), cyt-(289-4) (Kubelik and Lambowitz, unpubl.), his-2 (Akins, Lambowitz and Kinsey, unpubl.), van (Mann, Metzenberg, Akins and Lambowitz, unpubl.), cys-3 (Paietta, Marzluf, Akins and Lambowitz, unpubl.) and met-7 (Dr. M. Case, University of Georgia, personal communication). The library is available to all investigators. This work supported by NIH grant GM23961. - - - Dept. of Biochemistry, St. Louis University School of Medicine, St. Louis, MO 63104