



Tips for a Dihybrid Cross with the anl and ygr Genes

To ensure high seed yields, follow the *Growing Instructions* carefully. Expect an approximate 9:3:3:1 ratio of plants in the F_2 generation. Due to the random nature of gamete segregation, an exact 9:3:3:1 ratio is unlikely to be observed. Use the ratio as the foundation for understanding the Law of Segregation and the Law of Independent Assortment. Try graphing the data to see patterns, or do a χ^2 test to estimate the probability of the results. A dash (-) in the genotype indicates that either allele may be present (*i.e.*, anl or ANL; ygr or YGR) with no phenotype effect. See *www.fastplants.org* for details about how to do this dihybrid investigation, or for information about the companion monohybrid investigation.



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