

Acknowledgements

I wish to express my sincere appreciation to Professor H. Kamada of University of Tsukuba for his invaluable suggestions and encouragement throughout the course of my research.

My sincere thanks are also due to Professor Y. Sakagami and Dr. Y. Matsubayashi of Nagoya University, Associate Professor M. Ono, Associate Professor H. Ezura, Professor K. Watanabe, Associate Professor S. Satoh, Dr. K. Higashi, Dr. K. Sage-Ono, Dr. A. Kikuchi and Dr. T. Mizoguchi of University of Tsukuba for their valuable suggestions and criticisms.

I am grateful to all members of the laboratory and the Gene Research Center for their invaluable suggestions and criticisms.

Finally, I wish to express my thanks and appreciation to all members of my family for their constant encouragement and practical support on numerous difficulties encountered along the way.