

**DETECTION FOR POLYMORPHISM IN PORCINE
VINCULIN GENE**

KASINEE GATPHAYAK

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE
(AGRICULTURE)
IN ANIMAL SCIENCE**

**GRADUATE SCHOOL
CHIANGMAI UNIVERSITY
APRIL 2001**

**DETECTION FOR POLYMORPHISM IN PORCINE
VINCULIN GENE**

KASINEE GATPHAYAK

**THIS THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE (AGRICULTURE)
IN ANIMAL SCIENCE**

EXAMINING COMMITTEE



.....CHAIRMAN

Assoc.Prof.Dr. Therdchai Vearasilp



.....MEMBER

Asst.Prof.Dr. Nucha Simasatitkul (D.M.V.)



.....MEMBER

Assoc.Prof.Dr. Araya Jatisatienr

24 April 2001

Copyright by the Graduate School, Chiangmai University

ACKNOWLEDGEMENT

I would like to express the appreciation and gratitude to my advisor as well as the chairman of the thesis examining committee, Associate Professor Dr. Therdchai Vearasilp, for his invaluable guidance and support of the graduate study.

I wish to express my grateful thanks to Professor Dr. Karl Schellander, for funding this research as well as Dr. Klaus Wimmers, Dr. Sililuck (Ponsuksili) Wimmers, lecturer Supamit Mekchay and every researchers in the Institute of Animal Breeding Science, Rheinische Friedrich-Wilhelms-University of Bonn, Germany who gave the opportunity to conduct this research and the suggestion for the molecular genetic techniques. Actually, parts of the basic data that used in this thesis came from the department researches.

I would like to thank to the thesis examining committee, Assistant Professor Dr. Nucha Simasatittkul, Associate Professor Dr. Araya Jatisatienr for their constructive suggestions.

Special thanks is given to the staffs of both in the Institute of Animal Breeding Science, Rheinische Friedrich-Wilhelms-University of Bonn and Department of Animal Science, Chiang Mai University which facilitated the performance and communication during the study.

Finally, high pleasure is due to my family for all their love, encouragement, and support throughout the study period.

Kasinee Gatphayak