

## TABLE OF CONTENT

TITLE.....	i
RATIFICATION PAGE .....	ii
AUTHENTICITY STATEMENT .....	iii
ACKNOWLEDGEMENT .....	iv
TABLE OF CONTENT .....	vi
LIST OF TABLES .....	viii
LIST OF FIGURES .....	ix
LIST OF APPENDICES .....	x
ABSTRACT.....	xi
INTISARI.....	xii
<b>CHAPTER I. INTRODUCTION</b>	
A. Study Background .....	1
B. Problem Formulation .....	3
C. Study Objectives .....	4
D. Study Originality .....	4
E. Study Benefit .....	6
<b>CHAPTER II. LITERATURE REVIEW</b>	
A. Literature Review .....	7
A1. Breast Carcinoma.....	7
A2. NGX-6 .....	12
B. Basic of Theory.....	13
C. Theoretical Framework.....	14
D. Conceptual Framework .....	14
E. Hypothesis.....	14
<b>CHAPTER III. RESEARCH METHODOLOGY</b>	
A. Research Design .....	15
B. Population Study.....	15
C. Study Subject .....	15
D. Sample Technique .....	16
E. Estimation Sample Size .....	16
F. Study Variable.....	17
G. Study Materials and Tools.....	17
H. Method.....	18
I. Study Procedure .....	18
J. Operational Definition .....	24
K. Analysis Data.....	25

<b>CHAPTER IV. RESULTS AND DISCUSSION</b>	
A. Result .....	26
B. Discussion .....	28
<b>CHAPTER V. CONCLUSION AND SUGGESTIONS</b>	
A. Conclusion .....	32
B. Suggestions .....	32
<b>CHAPTER VI. REFERENCE</b> .....	34
<b>APPENDICES</b> .....	3

## LIST OF TABLES

Table 1. Study Originality.....	4
Table 2. Inclusion and Exclusion Criteria.....	15
Table 3. Primary Sequence of GAPDH and NGX-6.....	23
Table 4. Condition of PCR for GAPDH and NGX-6.....	24
Table 5. Characteristic and data of metastasis subject.....	26
Table 6. Classification of subject based on age .....	27
Table 7. Description of mRNA NGX-6 Expression level.....	28

## LIST OF FIGURE

- Figure 1. Incidence of Breast Carcinoma per 100.000 Women in Asia Pacific ..... 8  
Country in 2012
- Figure 2. Distribution of Metastasis Site with Invasive Ductal Carcinoma..... 27

## LIST OF APPENDICES

Appendix 1. Table of Paraffin Block with NGX-6 mRNA Expression.....	37
Appendix 2. Table of Frequency of Gene Expression .....	39
Appendix 3. Table of Normality Test Data.....	40
Appendix 4. Table of Comparison between Metastasis and Non-Metastasis .....	40
Appendix 5. Table of Comparison between Metastasis and Non Metastasis .....	40
at <45 Age Years Old Group	
Appendix 6. Table of Comparison between Metastasis and Non-Metastasis .....	41
at >45 Age Years Old Group	
Appendix 7. Certificate of Consent.....	42