



UPPSALA  
UNIVERSITET

## Molecular Biotechnology Programme

Uppsala University School of Engineering

<b>UPTEC X 05 043</b>	<b>Date of issue 2005-08</b>	
Author <b>Erik Holmqvist</b>		
Title (English) <b>Functional analysis of chromosomally encoded small regulatory RNAs in <i>E. coli</i></b>		
Title (Swedish)		
Abstract <p>The <i>E. coli</i> small regulatory RNA MicA has here been shown to act as an antisense RNA targeting <i>ompA</i>-mRNA <i>in vivo</i>. Reporter gene fusions further showed that over-expression of the sRNAs MicA and MicF leads to decreased translation of <i>lrp</i>-mRNA, encoding the leucine responsive regulator protein.</p>		
Keywords sRNA, post-transcriptional regulation, reporter gene system, structural probing		
Supervisors <b>Gerhart Wagner</b> Department of Cell and Molecular Biology, Uppsala University		
Scientific reviewer <b>Fredrik Söderbom</b> Departement of Molecular Biology, Swedish University of Agricultural Sciences		
Project name	Sponsors	
Language <b>English</b>	Security	
<b>ISSN 1401-2138</b>	Classification	
Supplementary bibliographical information	Pages <b>23</b>	
<b>Biology Education Centre</b> Box 592 S-75124 Uppsala	<b>Biomedical Center</b> Tel +46 (0)18 4710000	<b>Husargatan 3 Uppsala</b> Fax +46 (0)18 555217