



UPPSALA
UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 13 005	Date of issue 2013-03
Author	Filip Karlsson
Title (English)	Unfolding probes - A novel method for biomolecular detection
Title (Swedish)	
Abstract	<p>Unfolding probes is a novel detection method for biomolecules, involving an oligonucleotide probe that can be amplified and which thereby gives rise to a strong signal for individual probe - target interactions. The present project focuses on a variant of unfolding probes called 2-fold probes and on optimizing the detection efficiency of synthetic targets. Furthermore, proof of concept experiments were performed for the detection of <i>Her2</i> mRNA in cells.</p>
Keywords	DNA-probe, nucleic acid detection, oligonucleotide probe, RCA
Supervisors	Rachel Nong Uppsala University
Scientific reviewer	Masood Kamali-Moghaddam Uppsala University
Project name	Sponsors
Language	Security
ISSN 1401-2138	Classification
Supplementary bibliographical information	Pages
	30
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000
	Husargatan 3 Uppsala Fax +46 (0)18 471 4687