

# Licensing Opportunity



## Keywords

Oligonucleotids, detection, short nucleic acid sequences, DNA markers, Klenov

## Summary

A new method for qualitative and quantitative detection of short nucleic acid sequences of about 8-50 nucleotides in length.

## Background

The quantitative detection of short double-stranded or single-stranded oligomeric nucleic acids including antisense oligonucleotides, short interfering RNA (siRNA) and microRNA (miRNA) in cells, blood plasma and tissues becomes increasingly important. A special interest has grown in antisense oligonucleotides as pharmacological tools and therapeutic agents. Different techniques and methods have been developed in the past for the quantification of short oligonucleotides, to study their therapeutic use, their stability in biological fluids and target specificity.

The major advantages of the present invention over other oligonucleotide quantification methods are the increased sensitivity, the high specificity, the high accuracy and precision, the broad dynamic range, the fast and easy sample processing and the high-throughput capability.

## Worldwide Patenting

World patent pending

## Invention

The invention consists in a novel method of qualitative and quantitative detecting a short nucleic acid sequence (8-50 nucleotides in length) of interest. The method has a detection limit of 50 fM (0.3pg/ml), which corresponds to 0.75 attomoles of target molecules.

## Features and Benefits

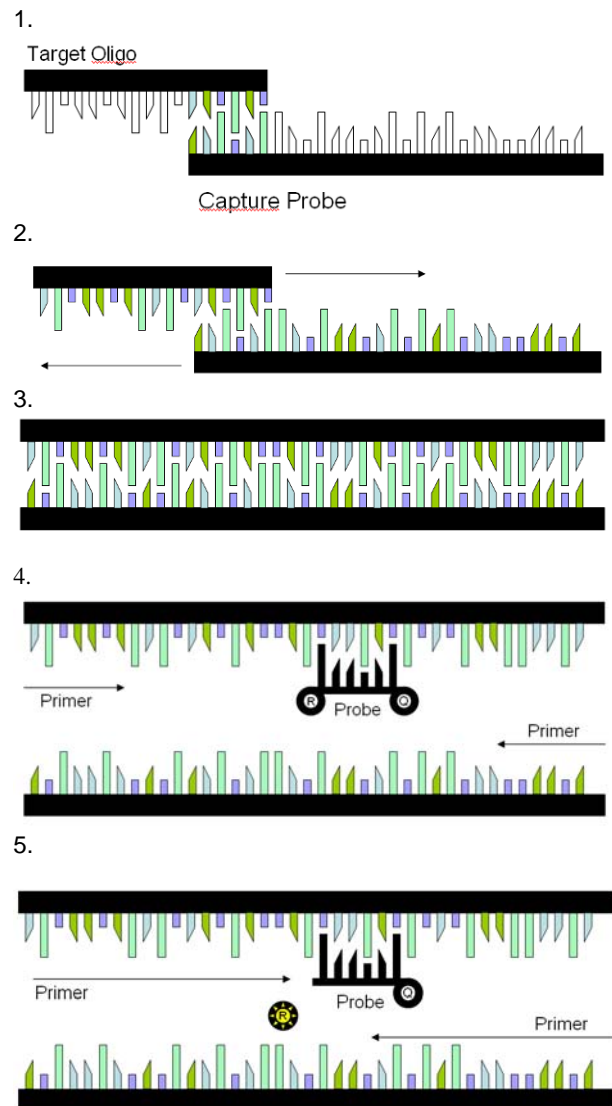
Due to the extreme durability of short oligonucleotids the information, the short nucleic acid sequences can be applied on virtually any matrix.

## Field of Application

**R&D:** Pharma, Cosmetics, Biotech

**Marking of products with specific DNA marker:** Pharma Cosmetics, Luxury goods, Cigarettes, Works of art, Stamps, Wine labels, Weapons, Bullets

**Military:** Encryption of messages in short DNA strands.



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