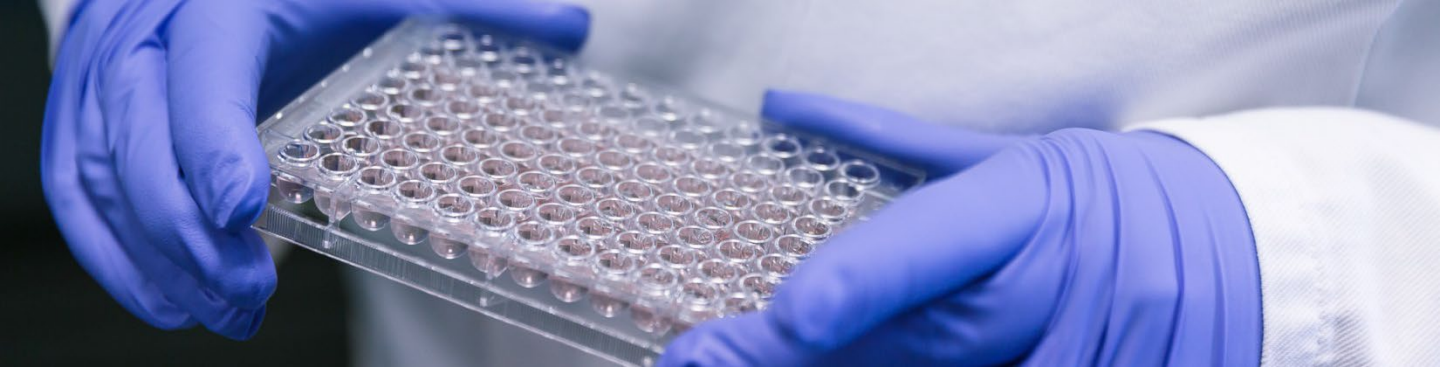
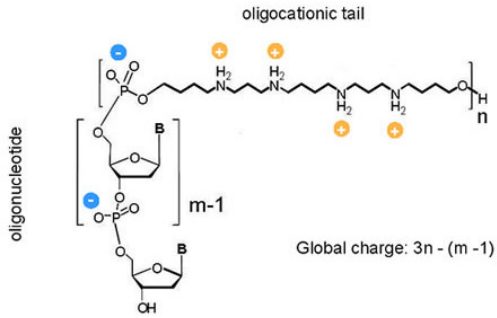


Modified oligonucleotides

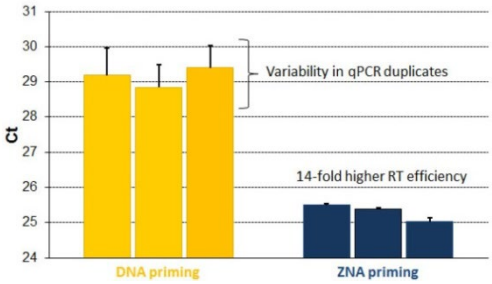
Zip Nucleic Acids: ZNA®

Improve your nucleic acids interaction with positively charged oligonucleotides

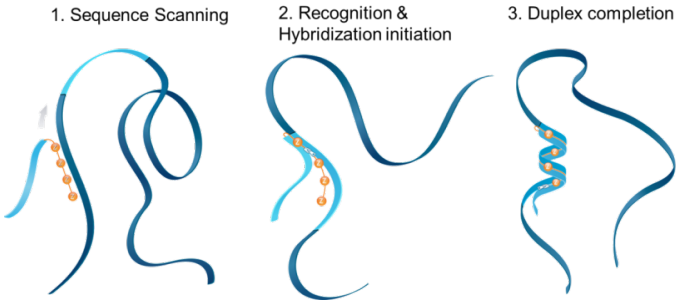
- High affinity oligonucleotides
- Adjustable and predictable Tm
- Fast binding to target sequence
- Efficient as PCR primers or probes
- Easy to design
- Improved RNA to cDNA conversion during Reverse Transcription



ZNA® structure. ZNA® are formed by conjugating spermine derivatives, as cationic moieties (Z units), to oligonucleotides. ZNA® show increased affinity for their targets by reducing the electrostatic repulsion between nucleic acid strands. These properties make ZNA® promising powerful tools for molecular biology and diagnostic applications.



ZNA® primers improve the conversion of RNA to DNA. Conversion comparison of HMGA-2 transcripts to DNA obtained by RT of 200 ng of total RNA extracted from HeLa cells using 100 nM of standard DNA primer and ZNA® primer.



3 steps mechanism to improve binding, affinity and kinetics. ZNA® enhance the affinity for their target by accelerating the complementary sequence recognition. ZNA® increase the binding and stabilize the formed duplex by reducing electrostatic repulsion, thereby increasing the Tm.

ZNA® is a licensing opportunity

For more information, contact our specialists at:
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