

Biotinylated double-stranded DNA (48,502 bp)

Nick-free DNA that is ideal for studying different types of DNA-binding molecules or DNA mechanics. Visualize and quantify DNA-protein interaction events associated with DNA replication, transcription, repair, or organization.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
**Biotinylated double-stranded
DNA (48,502 bp)**

This batch was produced on



& works best within 6 months

Material supplied:

• **Biotinylated double-stranded DNA (48,502 bp):** 20 μ l | 20 ng/ μ l (typical dilution factor 1:1000). Bacteriophage λ -DNA in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).

 Store at
+4°C



Biotinylated single-stranded DNA (20,452 nt)

Ideal for studying molecules that specifically bind single-stranded DNA, including proteins involved in DNA replication, transcription, repair, or organization.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
**Biotinylated single-stranded
DNA (20,452 nt)**

This batch was produced on

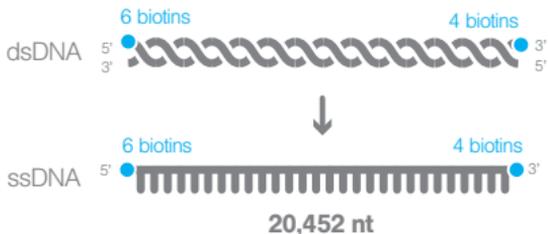


& works best within 6 months

Material supplied:

• **Biotinylated single-stranded DNA (20,452 nt):** 20 μ l | 20 ng/ μ l (typical dilution factor 1:1000). Bacteriophage λ -DNA in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA). Shipped as double-stranded DNA.

 Store at
+4°C



Biotinylated double-stranded DNA (8,398 bp) with overhang

Nick-free **DNA with a 5' overhang** that is ideal for studying DNA–protein interactions, DNA mechanics, and enzymatic activities, such as DNA polymerization, proofreading, and replication pause states.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
**Biotinylated double-stranded
DNA (8,398 bp) with
overhang**

This batch was produced on



& works best within 6 months

Material supplied:

• **Biotinylated double-stranded DNA (8,398 bp) with overhang:** 20 µl | 20 ng/µl (typical dilution factor 1:1000). Linearized plasmid pKYB1 with 25 nt overhang in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).

 Store at
+4°C

**8,398 bp
with 25 nt overhang**



Customized DNA sequence and fluorescence tagging

Purified and labeled DNA that is optimized for your specific dynamic single-molecule experiments with optical tweezers.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
**Customized DNA sequence
and fluorescence tagging**

This batch was produced on



& works best within 6 months

Materials supplied:

- **Customized DNA sequence and fluorescence tagging:**

20 μ l | 20 ng/ μ l (typical dilution factor 1:1000). Customized DNA in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).

 Store at
+4°C



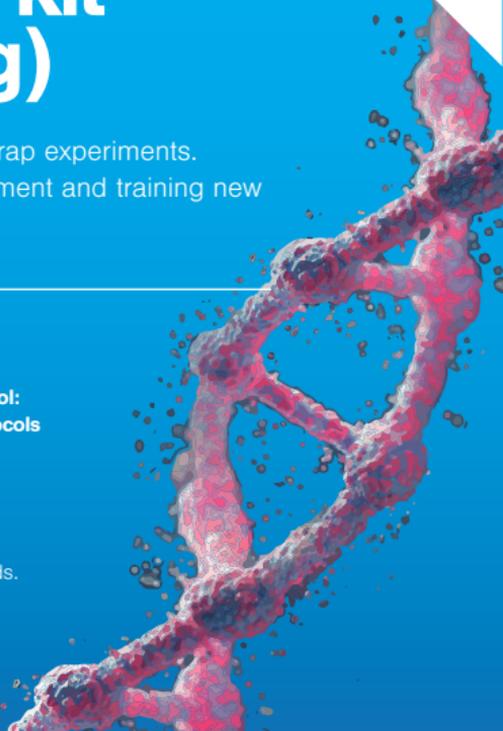
DNA structural mechanics kit (for training)

The standard kit for your first C-Trap experiments. Perfect for calibrating your instrument and training new users.



Scan me or use the link below to find the protocol:
store.lumicks.com/protocols

For research use only.
© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
DNA structural mechanics kit
(for training)

This batch was produced on

& works best within 6 months

Materials supplied:

• **Biotinylated double-stranded DNA (48,502 bp):** 20 μ l | 20 ng/ μ l.
Bacteriophage λ -DNA in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).

🌡️ Store at
+4°C

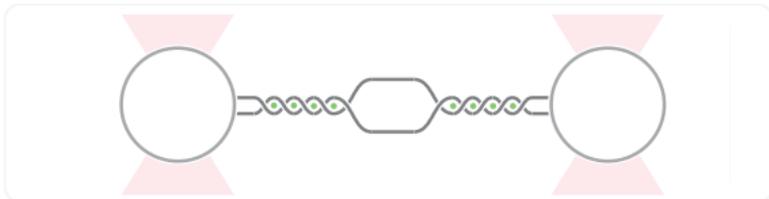
• **SYTOX Orange / YOYO-1 / DiTO-3:** 5 μ l. Dye in DMSO.

🌡️ Store at
-20°C

• **Streptavidin-coated polystyrene beads with a specific diameter:**
 μ m within the given range: 200 μ l | 0.5% (w/v).

🌡️ Store at
+4°C

Beads in PBS with 3 mM sodium azide, with a specific diameter (e.g., 4.5 μ m) within the given range.



DNA-protein interactions kit (for training)

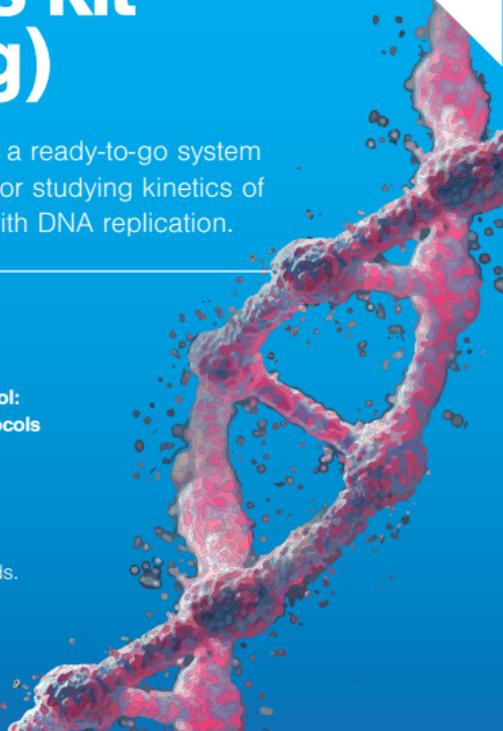
Kick-starts your experiments with a ready-to-go system for single-molecule applications for studying kinetics of enzymatic activities associated with DNA replication.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
DNA-protein interactions kit
(for training)

This batch was produced on



& works best within 6 months

Materials supplied:

- **T7 DNA polymerase:** 20 μ l, 200 Units | 10,000 U/ml. Polymerase with 8x Histidine tag in 50% glycerol.
- **dNTP mix:** 300 μ l | 10 mM of each nucleotide.
- **10x Polymerase buffer:** 500 μ l | 10x.
- **BSA passivation reagent:** 2 ml | 1%.



Store all materials at **-20°**

- **Pluronic passivation reagent:** 2 ml | 5%.



Store at **RT**

- **Biotinylated double-stranded DNA (8,398 bp) with overhang:** 20 μ l | 20 ng/ μ l. Linearized plasmid pKYB1 in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).



Store all materials at **+4°C**

- **Streptavidin-coated polystyrene beads with a specific diameter:**

μ m within the given range: 25 μ l | 1% (w/v). Beads in PBS with 3 mM sodium azide, with a specific diameter (e.g., 1.7 μ m) within the given range.



Biotinylated and digoxigenin-labeled DNA double-stranded DNA (48,524 bp)

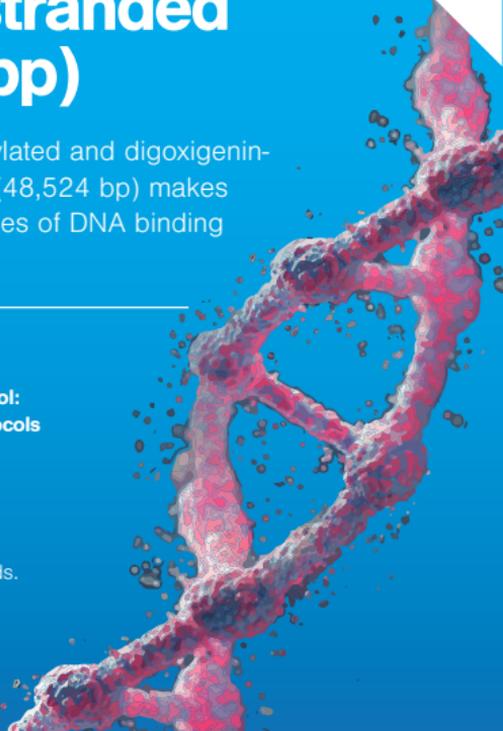
The length of the nick-free biotinylated and digoxigenin-labeled double-stranded λ -DNA (48,524 bp) makes it ideal for assessing different types of DNA binding molecules.



Scan me or use the link
below to find the protocol:
store.lumicks.com/protocols

For research use only.

© LUMICKS BV Amsterdam, The Netherlands.





DNA-Protein Interactions
**Biotinylated and digoxigenin-labeled DNA
double-stranded DNA (48,524 bp)**

This batch was produced on



& works best within 6 months

Materials supplied:

- **Biotinylated and digoxigenin-labeled DNA double-stranded DNA (48,524 bp):** 20 μ l | 20 ng/ μ l (typical dilution factor 1:1000).

Bacteriophage λ -DNA in TE buffer (10 mM Tris HCl pH 8.0 and 1 mM EDTA).

 Store at
+4°C

