



dynamic BIOSENSORS AS-2-Rb-lfs Adapter Strand 2 User Manual

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ADAPTER STRAND 2

with red dye **Rb** and prehybridized with ligand strand Dynamic Biosensors GmbH & Inc.
AS-2-Rb-lfs v5.1

Contents

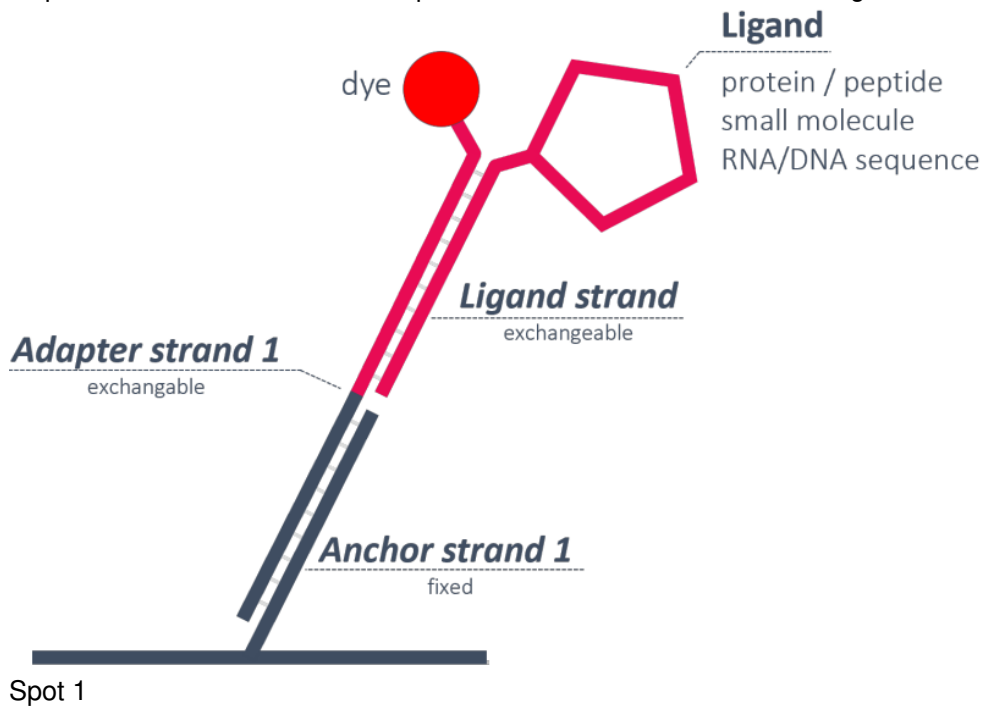
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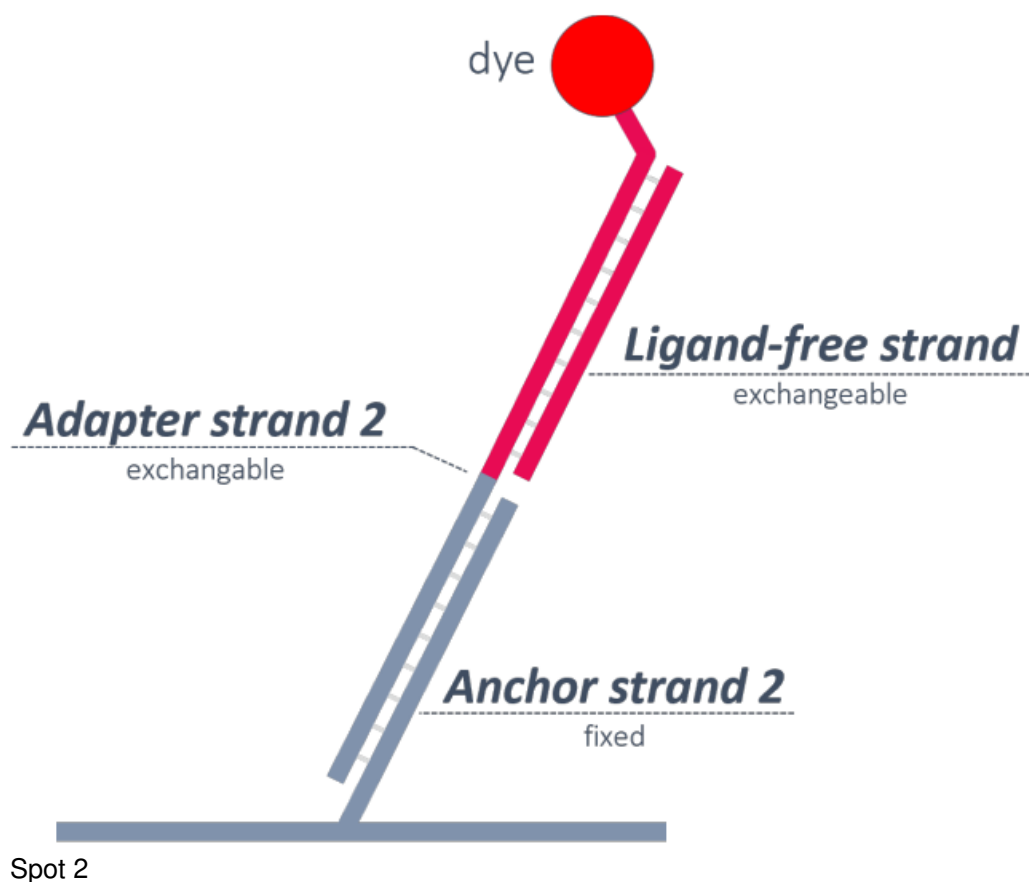
Key Features

- **Adapter strand 2** for functionalization of heliX® Adapter Chip Spot 2.
- Compatible with **heliX® Adapter Chip**.
- Includes **Adapter strands** for **50 regenerations**.
- **Ideal for MIX&RUN** sample preparation.
- **Adapter strand 2** carries a hydrophilic red dye (Rb) with a neutral net charge.

heliX® Adapter Chip Overview

2 spots with 2 different anchor sequences for DNA-encoded addressing.





Product Description

Order Number : **AS-2-Rb-lfs**

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 2 – Rb – lfs	White	200/250 nM	5 x 200 µL	TE40 [1]	-20°C

For research use only.

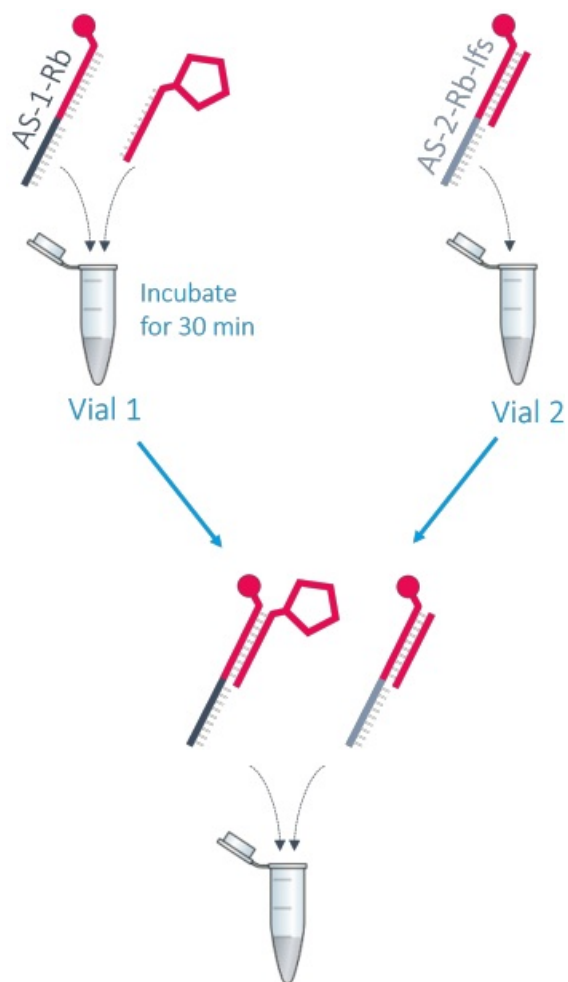
This product has a limited shelf life, please see expiry date on label.

To avoid many freeze thaw cycles please aliquot the nanolever.

Preparation | MIX&RUN

In-solution hybridization of adapter and ligand strands:

1. Mix Adapter strand 1 – Rb (400 nM) and conjugated Ligand strand (500 nM) at 1:1 ratio (v/v).
2. Incubate the solution of step 1 at RT at 600 rpm for 30 min to ensure complete hybridization.
3. Mix solution of step 2 and Adapter strand 2 – Rb – lfs (200 nM) at 1:1 ratio (v/v).



Solution is ready to use for bio chip fictionalization.
Stability of the solution is related to the stability of the ligand molecule.

Table 2. Additional material for fictionalization of spot 1 and reference spot 2.

Material	Concentration	Buffer	Related Product Name	Order No
Adapter strand 1 – Rb	400 nM	TE40 [1]	Adapter strand 1 with red dye Rb	AS-1-Rb
Ligand strand carrying the conjugated ligand	500 nM	[2P] E40	heliX® Amine Coupling Kit 1	HK-NHS-1

Example

Required volume for 3 functionalizations: **100 µL** with a final concentration of **100 nM**.

Vial 1		Vial 2
Adapter strand 1 – Rb (400 nM)	Conjugated Ligand strand (500 nM)	Adapter strand 1 – Rb – lfs (200/250 nM)
25 µL	25 µL	50 µL

After incubation time, mix vial 1 and vial 2 to obtain 100 µL of ready-to-use DNA solution.

Contact

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Instruments and chips are engineered and manufactured in Germany.

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1. TE 40: 10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50 µM EDTA, 50 µM EGTA
2. If the protein is not stable in PE40 (TE40, HE40), please check buffer compatibility with the switchSENSE® compatibility sheet.

AS-2-Rb-lfs v5.1 www.dynamic-biosensors.com

**Documents / Resources**

A small image of the AS-2-Rb-lfs Adapter Strand 2 product, showing a white box with a blue and black design.	dynamic BIOSENSORS AS-2-Rb-lfs Adapter Strand 2 [pdf] User Manual AS-2-Rb-lfs v5.1, AS-2-Rb-lfs Adapter Strand 2, AS-2-Rb-lfs, Adapter Strand 2, Strand 2
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References

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