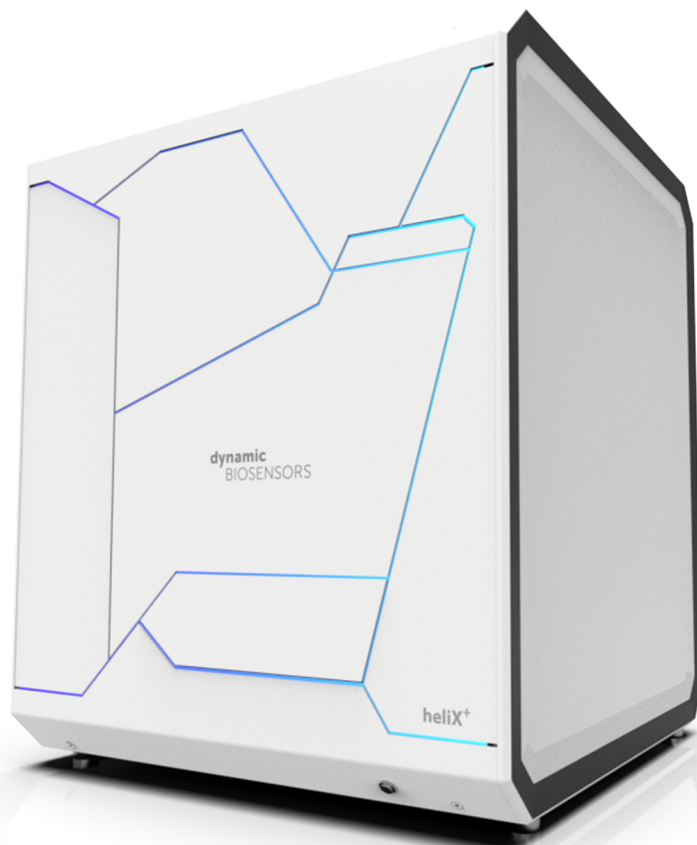


Adapter strand 2

with green dye **Gb** and prehybridized with ligand strand

Dynamic Biosensors GmbH & Inc.

AS-2-Gb-lfs v5.1

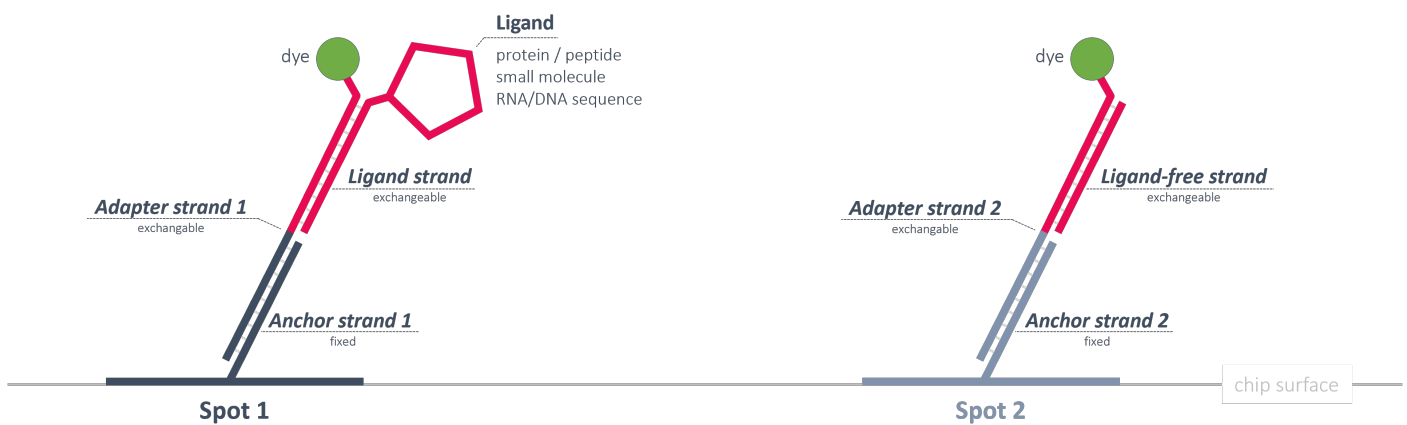


Key Features

- **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 moderately hydrophilic green dye (**Gb**) with a negative net charge.

heliX[®] Adapter Chip Overview

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



Product Description

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

Table 1. Contents and Storage Information

| Material | Cap | Concentration | Amount | Buffer | Storage |
|------------------------------------|-------|---------------|------------|---------------------|---------|
| Adapter strand 2 - Gb - 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 - Gb** (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 - Gb - lfs** (200 nM) at 1:1 ratio (v/v).

Solution is ready to use for biochip functionalization.

Stability of the solution is related to the stability of the ligand molecule.

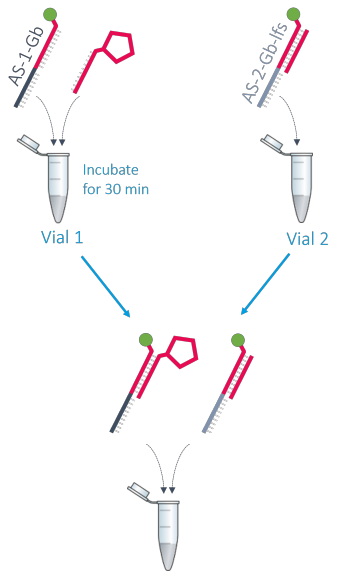


Table 2. Additional Material for functionalization of spot 1 and reference spot 2.

| Material | Concentration | Buffer | Related Product Name | Order No |
|--|---------------|---------------------|--|----------|
| Adapter strand 1 - Gb | 400 nM | TE40 ^[1] | Adapter strand 1 with green dye Gb | AS-1-Gb |
| Ligand strand carrying the conjugated ligand | 500 nM | PE40 ^[2] | 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 - Gb (400 nM) | Conjugated Ligand strand (500 nM) | Adapter strand 2 - Gb - 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] TE40: 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.