

Adapter strand 2

with red dye **Rb**

Dynamic Biosensors GmbH & Inc. AS-2-Rb v5.1



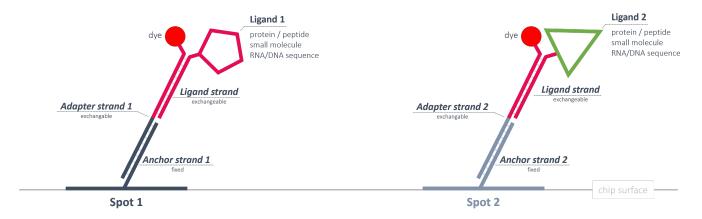


Key Features

- 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 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

Table 1. Contents and Storage Information

| Material | Сар | Concentration | Amount | Buffer | Storage |
|-----------------------|-------|---------------|------------|----------|---------|
| Adapter strand 2 - Rb | White | 400 nM | 5 x 100 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* with ligand 1 (500 nM) at 1:1 ratio (v/v).
- 2. Mix *Adapter strand 2 Rb* (400 nM) and conjugated *Ligand strand* with ligand 2 (500 nM) at 1:1 ratio (v/v).
- 3. Incubate separately the two solutions of step 1 and 2 at **RT** at **600 rpm** for **30 min** to ensure complete hybridization.
- 4. Mix solution of step 1 and 2 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 molecules.



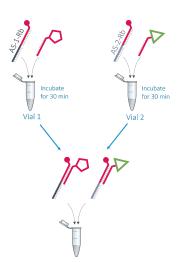
| Material | Concentration | Buffer | Related Product Name | Order No |
|---|---------------|---------------------|---|----------|
| Adapter strand 1 - Rb | 400 nM | TE40 [1] | Adapter strand 2 with red dye Rb | AS-1-Rb |
| Ligand strand carrying the conjugated ligand 1 | 500 nM | PE40 ^[2] | heliX [®] Amine Coupling Kit 1 | HK-NHS-1 |
| Ligand strand carrying the conjugated ligand 2 | 500 nM | PE40 ^[2] | heliX [®] Amine Coupling Kit 1 | HK-NHS-1 |

Example

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

| Vial 1 | | Vial 2 | | |
|-----------------------------------|--|-----------------------------------|--|--|
| Adapter strand 1 - Rb (400 nM) | Conjugated <i>Ligand strand</i> with ligand 1 (500 nM) | Adapter strand 2 - Rb (400 nM) | Conjugated <i>Ligand strand</i> + with ligand 2 (500 nM) | |
| 25 μL | 25 μL | 25 μL | 25 μL | |

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





Contact

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^[1] TE40: 10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50 μ M EDTA, 50 μ M EGTA