



ADAPTER STRAND 2

with red dye **Rb**

Dynamic Biosensors GmbH AS-2-Rb v5.1



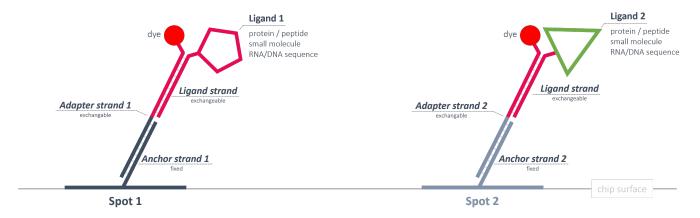


Key Features

- 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.

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

	No.
Incubate for 30 min	Incubate for 30 min
20	} \

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 µL 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 µL of ready-to-use DNA solution.



Contact

Dynamic Biosensors GmbH Perchtinger Str. 8/10 81379 Munich Germany **Bruker Scientific LLC** 40 Manning Road, Manning Park Billerica, MA 01821 USA

Order Information order@dynamic-biosensors.com
Technical Support support@dynamic-biosensors.com

www.dynamic-biosensors.com

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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.