dynamic BIOSENSORS AS-1 Adapter Strand 1 User Manual

Contents

dynamic BIOSENSORS

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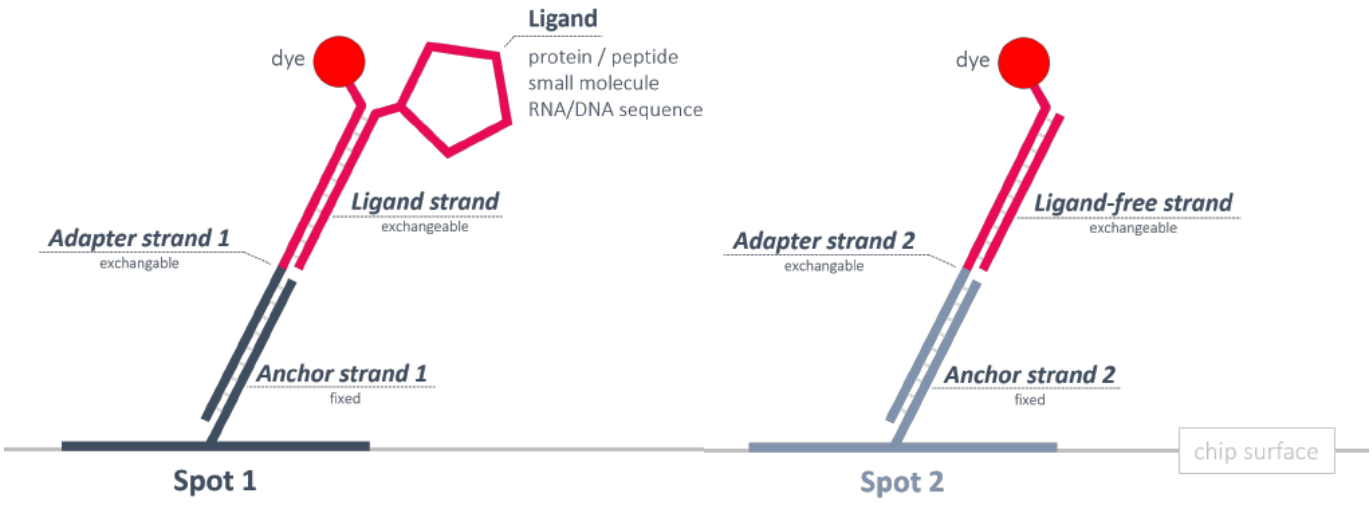
Key Features

- Adapter strand 1 – Rc for functionalization of heliX® Adapter Chip Spot 1.
- Compatible with heliX® Adapter Chip.
- Includes Adapter strands for 50 regenerations.
- Ideal for MIX&RUN sample preparation.
- Adapter strand 1 carries a moderately hydrophobic red dye (Rc) 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-1-Rc
Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 1 – Rc	Black	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 – Rc (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 1 – Rc – 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.

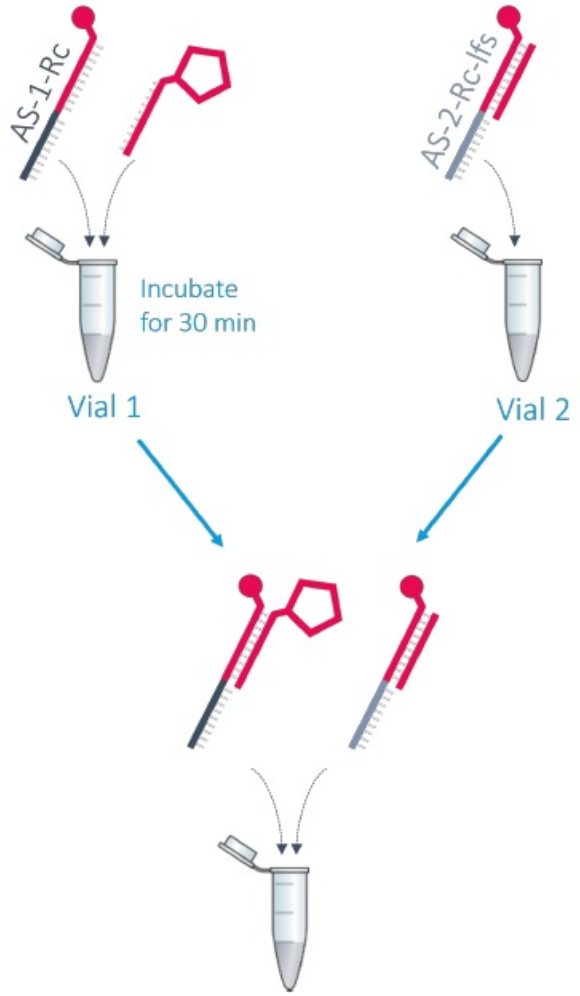


Table 2. Additional material for functionalization of spot 1 and reference spot 2.

Material	Concentration	Buffer	Related Product Name	Order No
Ligand strand carrying the conjugated ligand	500 nM	2P] E40 [	heliX® Amine Coupling Kit 1	HK-NHS-1
Adapter strand 1 – Rc – lfs	200/250 nM	TE40 [1]	***Adapter strand 2*** with red dye Rc prehybridized with *ligand-free strand*	AS-2-Rc-lfs

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

Vial 1		Vial 2
Adapter strand 1 – Rc (400 nM)	Conjugated ***Ligand strand*** (500 nM)	***Adapter strand 1 – Rc – 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.

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Instruments and chips are engineered and manufactured in Germany.

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.

Documents / Resources

	dynamic BIOSENSORS AS-1 Adapter Strand 1 [pdf] User Manual AS-1-Rc, AS-2-Rc-lfs, AS-1 Adapter Strand 1, AS-1, Adapter Strand 1, Strand 1
	dynamic BIOSENSORS AS-1 Adapter Strand 1 [pdf] User Manual AS-1-Ga, AS-2-Ga-lfs, AS-1 Adapter Strand 1, AS-1, Adapter Strand 1, Strand 1

References

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