dynamic BIOSENSORS AS-1-Gb Adapter Strand 1 User Manual

dynamic BIOSENSORS AS-1-Gb Adapter Strand 1

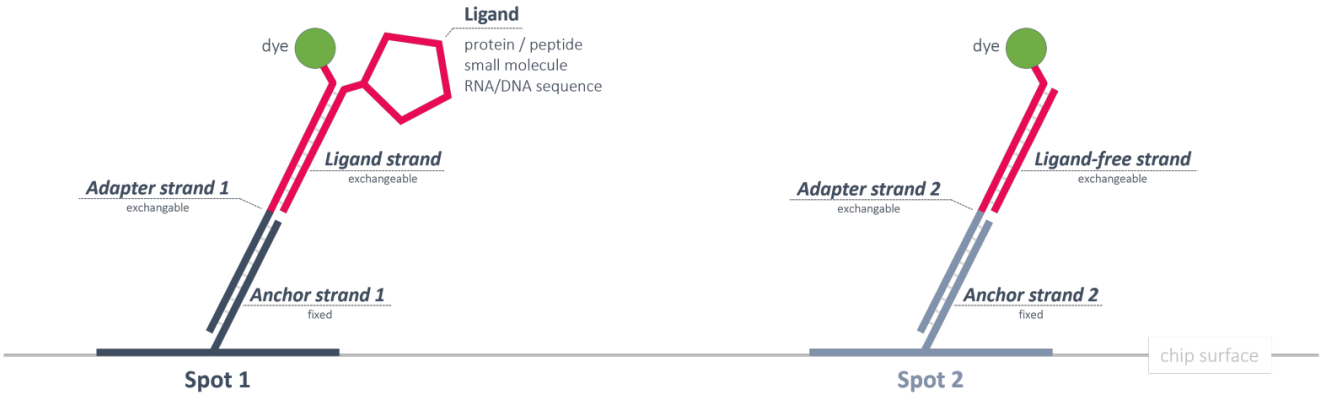
Contents

Key Features

- Adapter strand 1 – Gb 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 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-1-Gb

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 1 – Gb	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 nanolayer.

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 1 – 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.

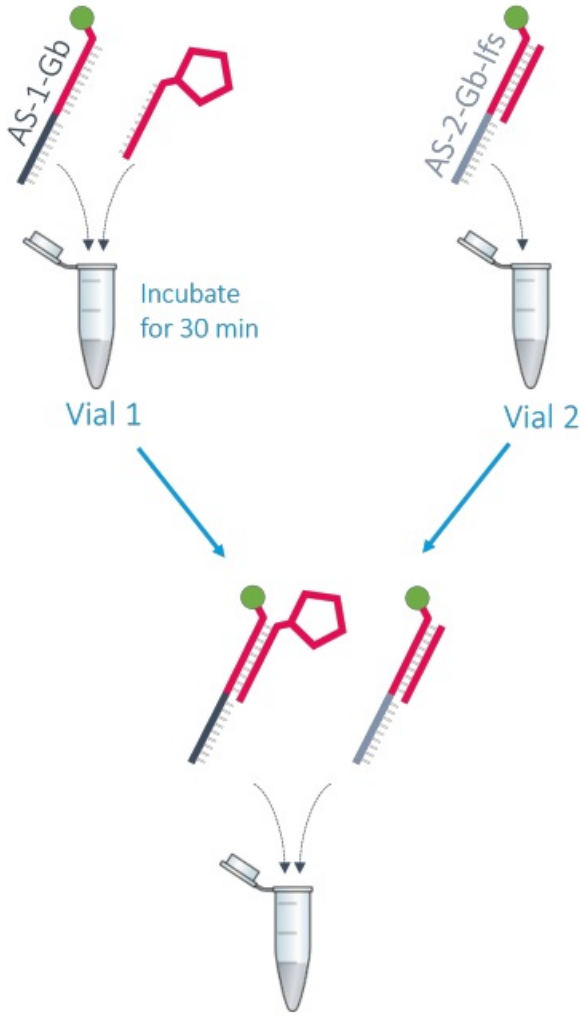


Table 2. Additional material for functionalization of spot 1 and reference spot 2.

Material	Concentration	Buffer	Related Product Name	Order No
Ligand strand carrying the conjugated ligand	500 nM	PE40 [2]	heliX® Amine Coupling Kit 1	HK-NHS-1
Adapter strand 1 – Gb – lfs	200/250 nM	TE40 [1]	Adapter strand 2 with green dye Gb prehybridize with ligand-free strand	AS-2-Gb-lfs

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 1 – 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

Dynamic Biosensors GmbH
Perchtinger Str. 8/10
81379 Munich
Germany

Dynamic Biosensors, Inc.
300 Trade Center, Suite 1400
Woburn, MA 01801
USA

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

[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-Gb Adapter Strand 1 [pdf] User Manual AS-2-Gb-lfs, AS-1-Gb Adapter Strand 1, AS-1-Gb, Adapter Strand 1, Strand 1

References

- HomePage | Biosensors International Ltd
- Home - Dynamic Biosensors
- Home - Dynamic Biosensors
- User Manual