dynamic BIOSENSORS AS-2-Gb Adapter Strand 2 User Manual

dynamic BIOSENSORS AS-2-Gb Adapter Strand 2

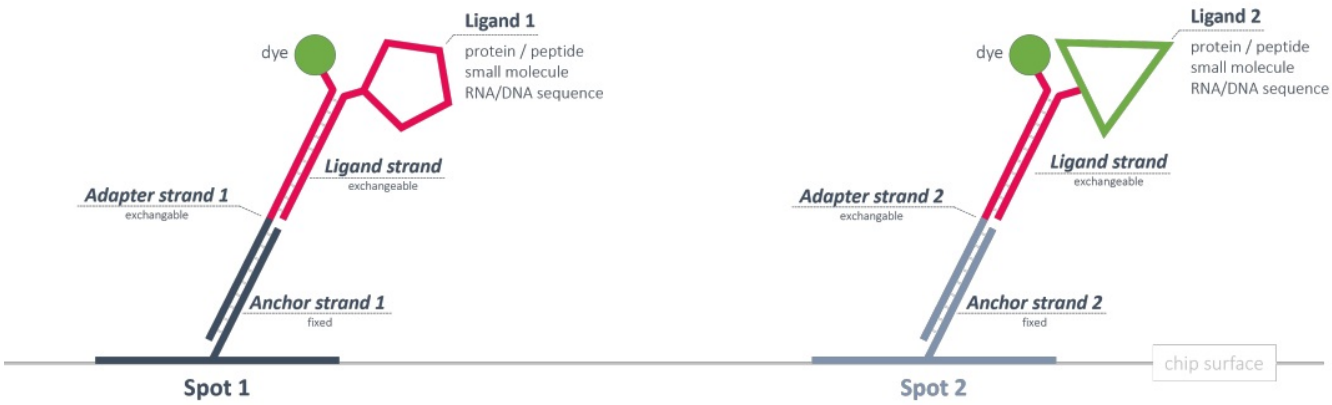
Contents

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

Table 1. Contents and Storage Information

Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 2 – Gb	White	400 nM	5 x 100 µL	TE40 [1]	-20°C

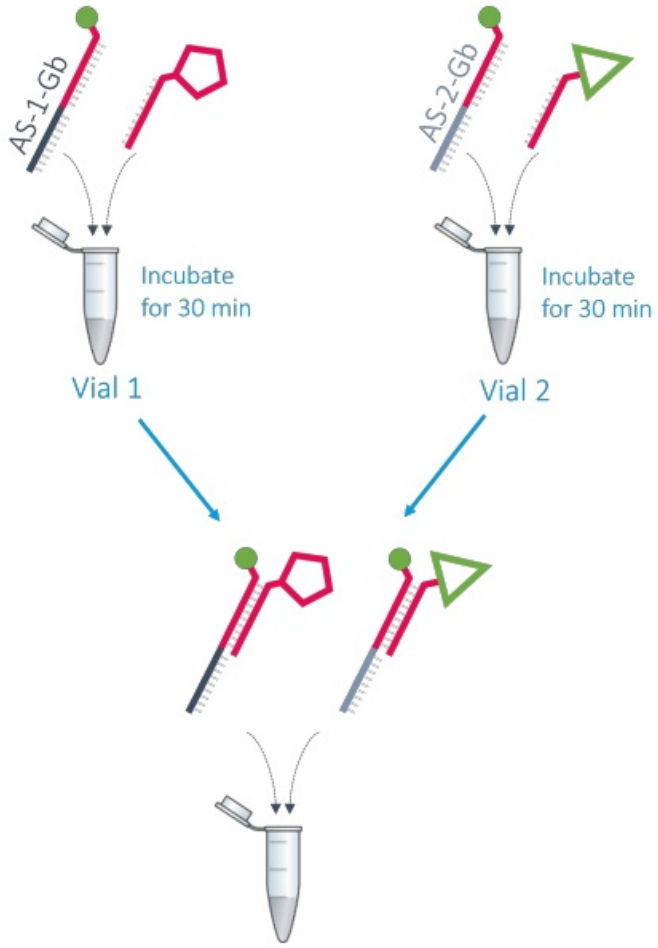
For research use only.

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 – Gb (400 nM) and conjugated Ligand strand with ligand 1 (500 nM) at 1:1 ratio (v/v).
2. Mix Adapter strand 2 – Gb (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.

Material	Concentration	Buffer	Related Product Name	Order No
Adapter strand 1 – Gb	400 nM	TE40 [1]	***Adapter strand 2*** with green dye **Gb**	AS-1-Rb
Ligand strand carrying the conjugated ligand 1	500 nM	P2] E40 [	**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 – Gb (400 nM)	Conjugated ***Ligand strand*** with ligand 1 (500 nM)	***Adapter strand 2 – Gb*** (400 nM)	Conjugated ***Ligand strand*** + with ligand 2 (500 nM)
25 µL	25 µL	25 µL	25 µL

Contact

1. TE40: 10 mM Tris, 40 mM NaCl, 0.05 % Tween 20, 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.

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Instruments and chips are engineered and manufactured in Germany.

Documents / Resources

	dynamic BIOSENSORS AS-2-Gb Adapter Strand 2 [pdf] User Manual AS-2-Gb v5.1, AS-2-Gb Adapter Strand 2, AS-2-Gb, Adapter Strand 2, Strand 2

References

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