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

Contents

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

ADAPTER STRAND 2
with green dye Gc

Dynamic Biosensors GmbH & Inc.
AS-2-Gc 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 hydrophobic green dye (Gc) 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-Gc
Table 1. Contents and Storage Information

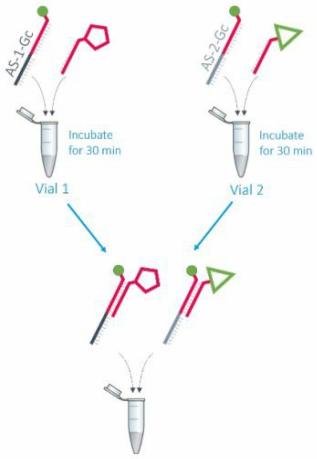
Material	Cap	Concentration	Amount	Buffer	Storage
Adapter strand 2 - Gc	White	400 nM	5 x 100 µL	TE40 [1]	-20°C

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 - Gc*** (400 nM) and conjugated ***Ligand strand*** with ligand **1** (500 nM) at 1:1 ratio (v/v).
2. Mix ***Adapter strand 2 - Gc*** (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 - Gc	400 nM	TE40 [1]	***Adapter strand 2*** with green dye **Gc**	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 - Gc (400 nM)	Conjugated ***Ligand strand*** with ligand 1 (500 nM)	***Adapter strand 2 - Gc*** (400 nM)	Conjugated ***Ligand strand*** + 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

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

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.

www.dynamic-biosensors.com

Read More About This Manual & Download PDF:

Documents / Resources

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

References

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