

## Multiplex cfDNA Reference Standard

**IMPORTANT:** Centrifuge tube prior to opening to prevent loss of product

### PRODUCT INFORMATION

Catalog ID	HD786
Batch ID	35863
Product Description	<a href="#">Structural Multiplex cfDNA Reference Standard</a>
Date of Manufacture	24-Jan-2019
Manufacturing QMS Status	ISO 9001

### PROPERTIES

Quantity	350 ng
Concentration	20 ng/ $\mu$ L
Average Fragment Length	160 bp
Buffer	Tris-EDTA (10 mM Tris-HCl, 1 mM EDTA), pH 8.0
Storage Conditions	+4°C
Use by	For the latest information on product shelf life, please visit our website: <a href="https://www.horizondiscovery.com/reference-standards/coa-information">https://www.horizondiscovery.com/reference-standards/coa-information</a>

### CUSTOMER SUPPORT

Technical Support	<a href="mailto:technical@horizondiscovery.com">technical@horizondiscovery.com</a>
Customer Service	<a href="mailto:orders@horizondiscovery.com">orders@horizondiscovery.com</a>

### ADDITIONAL INFORMATION

N/A

#### Horizon Discovery

8100 Cambridge Research Park,  
Waterbeach, Cambridge,  
CB25 9TL, United Kingdom  
[www.horizondiscovery.com/](http://www.horizondiscovery.com/)

t + 44 (0) 1223 976 000  
f + 44 (0) 1223 655 581  
e [orders@horizondiscovery.com](mailto:orders@horizondiscovery.com)

**QUALITY CONTROL**

 Allele Frequency (AF) / Copy Number and Genotype: **Droplet Digital™ PCR**

Gene	Variant	Expected AF (%) / Copy Number	Actual AF (%) / Copy Number	Acceptance Criteria (%) / Copy Number		Pass/Fail
				Low	High	
GNA11	Q209L	5.6	4.99	3.90	7.30	PASS
AKT1	E17K	5.0	4.51	3.50	6.50	PASS
PIK3CA	E545K	5.6	5.44	3.90	7.30	PASS
EGFR	V769_D770insASV	5.6	3.91	3.90	7.30	PASS
EGFR	ΔE746-A750	5.3	5.99	3.70	6.90	PASS
ROS1	SLC34A2/ROS1 Fusion	5.6	6.25	3.90	7.30	PASS
RET	CCDC6/RET Fusion	5.0	3.81	3.50	6.50	PASS
MET	Amplification	4.5 copies	4.57 copies	3.20 copies	5.90 copies	PASS
MYC-N	Amplification	9.5 copies	11.12 copies	7.60 copies	11.40 copies	PASS

 Fragmentation Size: **D1000 DNA ScreenTape assay (Agilent Technologies)**

Acceptance Criteria	Reading	Pass/Fail
160 bp ± 10% (144 bp – 176 bp)	167 bp	PASS

 Quantification: **Qubit® dsDNA BR assay (Invitrogen)**

Acceptance Criteria	Reading	Pass/Fail
20 ng/μL ± 15% (17.0 – 23.0 ng/μL)	18.4 ng/μL	PASS

**FOR RESEARCH USE ONLY**

Manufactured in the UK

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