

## Multiplex cfDNA Reference Standard

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

PRODUCT INFORMATION	
Catalog ID	HD825
Batch ID	
Product Description	<a href="#">EGFR Multiplex cfDNA Reference Standard Set</a>
Date of Manufacture	
Manufacturing QMS Status	ISO 9001

PROPERTIES	
Quantity	4 vials of 350 ng
Concentration	20 ng/μL
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

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#### Horizon Discovery

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**QUALITY CONTROL**

Allele Frequency (AF) and Genotype: Droplet Digital™ PCR

Gene	Variant	Expected AF (%)	Actual AF (%)	Acceptance Criteria (%)		Pass/Fail
				Low	High	
<b>5% Allele Frequency (Part No: HD821)</b>						
EGFR	T790M	5.0		3.50	6.50	
EGFR	L858R	5.0		3.50	6.50	
EGFR	ΔE746-A750	5.0		3.50	6.50	
EGFR	L861Q	5.0		3.50	6.50	
EGFR	G719S	5.0		3.50	6.50	
EGFR	C797S	5.0		3.50	6.50	
EGFR	S464L	5.0		3.50	6.50	
EGFR	G465R	5.0		3.50	6.50	
EGFR	V769-D770insASV	5.0		3.50	6.50	
EGFR	S768I	5.0		3.50	6.50	
<b>1% Allele Frequency (Part No: HD822)</b>						
EGFR	T790M	1.0		0.60	1.40	
EGFR	L858R	1.0		0.60	1.40	
EGFR	ΔE746-A750	1.0		0.60	1.40	
EGFR	L861Q	1.0		0.60	1.40	
EGFR	G719S	1.0		0.60	1.40	
EGFR	C797S	1.0		0.60	1.40	
EGFR	S464L	1.0		0.60	1.40	
EGFR	G465R	1.0		0.60	1.40	
EGFR	V769-D770insASV	1.0		0.60	1.40	
EGFR	S768I	1.0		0.60	1.40	
<b>0.1% Allele Frequency (Part No: HD823)</b>						
EGFR	T790M	0.1		See below*		
EGFR	L858R	0.1		0.05	0.15	
EGFR	ΔE746-A750	0.1		See below*		
EGFR	L861Q	0.1		0.05	0.15	
EGFR	G719S	0.1		See below*		
EGFR	C797S	0.1		0.05	0.15	
EGFR	S464L	0.1		See below*		
EGFR	G465R	0.1		See below*		
EGFR	V769-D770insASV	0.1		0.05	0.15	
EGFR	S768I	0.1		0.05	0.15	
*Observed AF (%) for 0.1% variants must be greater than observed AF (%) of the corresponding wild type assay						
<b>100% Wild Type (Part No: HD824)</b>						
EGFR	T790M	0.0		≤0.05		
EGFR	L858R	0.0		≤0.01		
EGFR	ΔE746-A750	0.0		≤0.05		
EGFR	L861Q	0.0		≤0.01		
EGFR	G719S	0.0		≤0.05		
EGFR	C797S	0.0		≤0.01		
EGFR	S464L	0.0		≤0.05		
EGFR	G465R	0.0		≤0.05		
EGFR	V769-D770insASV	0.0		≤0.01		
EGFR	S768I	0.0		≤0.01		

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

Acceptance Criteria	Reading	Pass/Fail
<b>5% Allele Frequency (Part No: HD821)</b> 160 bp ± 10% (144 bp – 176 bp)		
<b>1% Allele Frequency (Part No: HD822)</b> 160 bp ± 10% (144 bp – 176 bp)		
<b>0.1% Allele Frequency (Part No: HD823)</b> 160 bp ± 10% (144 bp – 176 bp)		
<b>100% Wild Type (Part No: HD824)</b> 160 bp ± 10% (144 bp – 176 bp)		

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

Acceptance Criteria	Reading	Pass/Fail
<b>5% Allele Frequency (Part No: HD821)</b> 20 ng/μL ± 15% (17.0 – 23.0 ng/μL)		
<b>1% Allele Frequency (Part No: HD822)</b> 20 ng/μL ± 15% (17.0 – 23.0 ng/μL)		
<b>0.1% Allele Frequency (Part No: HD823)</b> 20 ng/μL ± 15% (17.0 – 23.0 ng/μL)		
<b>100% Wild Type (Part No: HD824)</b> 20 ng/μL ± 15% (17.0 – 23.0 ng/μL)		

**FOR RESEARCH USE ONLY**

Manufactured in the UK

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