

## Multiplex gDNA Reference Standard

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

### PRODUCT INFORMATION

Catalog ID	HD734
Batch ID	
Product Description	<a href="#">Tru-Q NGS DNA 7 Multiplex gDNA Reference Standard</a>
Date of Manufacture	
Manufacturing QMS Status	ISO 13485

### PROPERTIES

Quantity	1 µg
Concentration	50 ng/µL
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

#### Horizon Discovery

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**QUALITY CONTROL**

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

NB	Gene	Variant	Expected AF (%)	Actual AF (%)	Acceptance Criteria (%)		Pass/Fail
					Low	High	
**	ABL1	T315I	1.3		0.91	1.69	
	ALK	F1174L	1.3		0.91	1.69	
	EGFR	T790M	1.0		0.70	1.30	
	FLT3	D835Y	1.3		0.91	1.69	
	FLT3	ΔI836	1.3		0.91	1.69	
	GNAQ	Q209L	1.3		0.91	1.69	
	IDH1	R132H	1.3		0.91	1.69	
	IDH2	R140Q	1.3		0.91	1.69	
	JAK2	V617F	1.3		0.91	1.69	
	KIT	D816V	1.3		0.91	1.69	
	MET	Y1253D	1.0		0.70	1.30	
	PDGFRA	D842V	1.3		0.91	1.69	
***	BRAF	V600E	8.0	Variant passed/failed ddPCR QC check at intermediate manufacturing stage			
	BRAF	V600G	1.0				
	BRAF	V600K	1.0				
	BRAF	V600M	1.0				
	BRAF	V600R	1.0				
	EGFR	G719S	16.7				
	EGFR	L858R	1.0				
	EGFR	L861Q	1.0				
	EGFR	ΔE746-A750	1.0				
	FGFR2	S252W	1.0				
	GNA11	Q209L	1.3				
	IDH1	R132C	1.3				
	IDH2	R172K	1.3				
	KRAS	A146T	1.3				
	KRAS	G12A	1.3				
	KRAS	G12C	1.3				
	KRAS	G12D	1.3				
	KRAS	G12R	1.3				
	KRAS	G12S	1.3				
	KRAS	G12V	1.3				
	KRAS	G13D	25.0				
	KRAS	Q61H	1.3				
	KRAS	Q61L	1.3				
	MEK1 (MAP2K1)	P124L	1.3				
	NOTCH	L1601P	1.3				
	NRAS	Q61H	1.3				
	NRAS	Q61K	1.3				
	NRAS	Q61L	1.3				
NRAS	Q61R	1.3					
PI3KCA	E542K	1.3					
PI3KCA	E545K	1.3					
PI3KCA	H1047R	30.0					

\*\*Variants confirmed by ddPCR on the Tru-Q 7 final product

\*\*\*Variants confirmed by ddPCR on intermediate manufacturing DNA blends used to produce Tru-Q 7

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**QUALITY CONTROL (continued)**Quality: **Agarose gel electrophoresis\***

Acceptance Criteria	Band Present/Absent	Pass/Fail
Bright band of high molecular weight		

Quantification: **Spectrophotometry (A260)\***

Acceptance Criteria	50 ng/μL ± 4% (Accepted Range: 48-52 ng/μL)	

\*Quality Control Test occurs before gDNA is multiplexed

**FOR RESEARCH USE ONLY**

Manufactured in the UK

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