

Multiplex gDNA Reference Standard

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

| PRODUCT INFORMATION | |
|--------------------------|---|
| Catalog ID | HD734 |
| Batch ID | |
| Product Description | Tru-Q NGS DNA 7 Multiplex gDNA Reference Standard |
| 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 (2-8°C) |
| Use by | For the latest information on product shelf life, please visit our website: https://horizondiscovery.com/products/diagnostic-reference-standards/reference-standards-product-information |

| CUSTOMER SUPPORT | |
|-------------------|--|
| Technical Support | technical@horizondiscovery.com |
| Customer Service | orders@horizondiscovery.com |

ADDITIONAL INFORMATION

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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 | 1.30 | | 0.91 | 1.69 | |
| | ALK | F1174L | 1.30 | | 0.91 | 1.69 | |
| | EGFR | T790M | 1.00 | | 0.70 | 1.30 | |
| | FLT3 | D835Y | 1.30 | | 0.91 | 1.69 | |
| | FLT3 | ΔI836 | 1.30 | | 0.91 | 1.69 | |
| | GNAQ | Q209L | 1.30 | | 0.91 | 1.69 | |
| | IDH1 | R132H | 1.30 | | 0.91 | 1.69 | |
| | IDH2 | R140Q | 1.30 | | 0.91 | 1.69 | |
| | JAK2 | V617F | 1.30 | | 0.91 | 1.69 | |
| | KIT | D816V | 1.30 | | 0.91 | 1.69 | |
| | MET | Y1253D | 0.90 | | 0.63 | 1.17 | |
| | PDGFRA | D842V | 1.30 | | 0.91 | 1.69 | |
| *** | BRAF | V600E | 7.70 | Variant passed/failed ddPCR QC check at intermediate manufacturing stage | | | |
| | BRAF | V600G | 1.00 | | | | |
| | BRAF | V600K | 1.00 | | | | |
| | BRAF | V600M | 1.00 | | | | |
| | BRAF | V600R | 1.00 | | | | |
| | EGFR | G719S | 16.70 | | | | |
| | EGFR | L858R | 1.00 | | | | |
| | EGFR | L861Q | 1.00 | | | | |
| | EGFR | ΔE746-A750 | 1.00 | | | | |
| | FGFR2 | S252W | 1.00 | | | | |
| | GNA11 | Q209L | 1.30 | | | | |
| | IDH1 | R132C | 1.30 | | | | |
| | IDH2 | R172K | 1.30 | | | | |
| | KRAS | A146T | 1.30 | | | | |
| | KRAS | G12A | 1.30 | | | | |
| | KRAS | G12C | 1.30 | | | | |
| | KRAS | G12D | 1.30 | | | | |
| | KRAS | G12R | 1.30 | | | | |
| | KRAS | G12S | 1.30 | | | | |
| | KRAS | G12V | 1.30 | | | | |
| | KRAS | G13D | 25.00 | | | | |
| | KRAS | Q61H | 1.30 | | | | |
| | KRAS | Q61L | 1.30 | | | | |
| | MEK1 (MAP2K1) | P124L | 1.30 | | | | |
| | NOTCH | L1600P**** | 1.20 | | | | |
| | NRAS | Q61H | 1.30 | | | | |
| | NRAS | Q61K | 1.30 | | | | |
| | NRAS | Q61L | 1.30 | | | | |
| NRAS | Q61R | 1.30 | | | | | |
| PI3KCA | E542K | 1.30 | | | | | |
| PI3KCA | E545K | 1.30 | | | | | |
| PI3KCA | H1047R | 30.00 | | | | | |

**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

****NOTCH L1600P mutation may also be referred to as NOTCH L1601P

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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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