

## Multiplex gDNA Reference Standard

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

| PRODUCT INFORMATION      |   |
|--------------------------|---|
| Catalog ID               | HD728   |
| Batch ID                 | 34476   |
| Product Description      | <a href="#">Tru-Q NGS DNA 1 Multiplex gDNA Reference Standard</a> |
| Date of Manufacture      | 30-Nov-2016   |
| 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:<br><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

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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  |           |
| BRAF          | V600E   | 8.0             | 7.15          | 6.40                    | 9.60  | PASS      |
| BRAF          | V600K   | 4.0             | 3.60          | 2.80                    | 5.20  | PASS      |
| EGFR          | G719S   | 16.7            | 17.11         | 15.03                   | 18.37 | PASS      |
| EGFR          | T790M   | 4.2             | 3.85          | 2.94                    | 5.46  | PASS      |
| FLT3          | ΔI836   | 5.0             | 4.68          | 3.50                    | 6.50  | PASS      |
| IDH1          | R132C   | 5.0             | 5.17          | 3.50                    | 6.50  | PASS      |
| JAK2          | V617F   | 5.0             | 5.41          | 3.50                    | 6.50  | PASS      |
| KRAS          | G12A    | 5.0             | 4.79          | 3.50                    | 6.50  | PASS      |
| KRAS          | G12R    | 5.0             | 5.35          | 3.50                    | 6.50  | PASS      |
| KRAS          | G13D    | 25.0            | 24.64         | 22.50                   | 27.50 | PASS      |
| MEK1 (MAP2K1) | P124L   | 5.0             | 4.77          | 3.50                    | 6.50  | PASS      |
| NOTCH1        | L1600P  | 5.0             | 5.07          | 3.50                    | 6.50  | PASS      |
| NRAS          | Q61K    | 5.0             | 4.75          | 3.50                    | 6.50  | PASS      |
| PIK3CA        | H1047R  | 30.0            | 29.92         | 27.00                   | 33.00 | PASS      |

 Quality: **Agarose gel electrophoresis\***

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

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

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

\*Quality Control Test occurs before gDNA is multiplexed

**FOR RESEARCH USE ONLY**

Manufactured in the UK

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