

## Certificate of Analysis

**Onco-Ref™ Genomic DNA Reference Standard NRAS c.35G>A p.G12D  
COSM564**

Manufacturing Quality

ISO 9001:2015

ISO 13485:2016

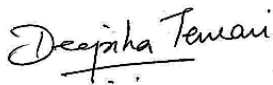
### Product Information

<b>Catalog Number:</b>	ASE-6065G-1
<b>Lot Number:</b>	E6065G292216-1
<b>Expiration Date:</b>	2020-11-04
<b>Quantity/Volume/Size:</b>	1 µg / 20 µl / 1 vial
<b>Gene Name:</b>	NRAS
<b>Nucleotide Change:</b>	c.35G>A
<b>Amino Acid Change:</b>	p.G12D
<b>Mutation Id:</b>	COSM564
<b>Cell:</b>	HCT116
<b>Storage Temperature:</b>	-20°C
<b>Shipping Temperature:</b>	Ambient
<b>Instructions for Use:</b>	Refer to product Datasheet (Available <a href="http://www.accuref.com">www.accuref.com</a> )
<b>Intended Use:</b>	For Research Use Only. Not intended for human or animal diagnostics or therapeutics.

### Quality Control

Test	Method	Acceptance Criteria	Result
<b>Genotyping</b>	Sanger Sequencing	Homozygous	PASS
<b>Quality</b>	Gel Electrophoresis	No Smear	PASS
<b>Quantification</b>	Qubit 4.0 Fluorometer	50 -60 ng /µl	PASS

AccuRef Diagnostics certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration date when stored unopened as recommended.

	<b>2018-11-14</b>
<b>Quality Assurance</b>	<b>Date</b>

COA-ASE-6065G-1-V2