

## Certificate of Analysis

**Onco-Ref™ Genomic DNA Reference Standard HRAS c.182A>G p.Q61R  
COSM499**

Manufacturing Quality

ISO 9001:2015

ISO 13485:2016

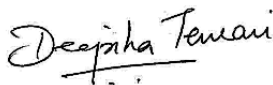
### Product Information

<b>Catalog Number:</b>	ASE-6080G-1
<b>Lot Number:</b>	E6080G292142-1
<b>Expiration Date:</b>	2020-10-30
<b>Quantity/Volume/Size:</b>	1 µg / 20 µl / 1 vial
<b>Gene Name:</b>	HRAS
<b>Nucleotide Change:</b>	c.182A>G
<b>Amino Acid Change:</b>	p.Q61R
<b>Mutation Id:</b>	COSM499
<b>Cell:</b>	HCT 116
<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>	Research Use Only. Not Intended for human or animal diagnostic or therapeutic use.

### 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>2018-11-02</b>
<b>Quality Assurance</b>	<b>Date</b>

COA-ASE-6080G-1-V2