

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6262S**Price:** \$100.00**Gene Name:**ABL1**Mutation Id:** COSM12578**Nucleotide Change:** c.1052T>C**Amino Acid Change:** p.M351T**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6061S**Price:** \$100.00**Gene Name:**AKT1**Mutation Id:** COSM33765**Nucleotide Change:** c.49G>A**Amino Acid Change:** p.E17K**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6308S**Price:** \$100.00**Gene Name:**ALK**Mutation Id:** COSM28059**Nucleotide Change:** c.3521T>G**Amino Acid Change:** p.F1174C**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6309S**Price:** \$100.00**Gene Name:**ALK**Mutation Id:** COSM28056**Nucleotide Change:** c.3824G>A**Amino Acid Change:** p.R1275Q**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6310S**Price:** \$100.00**Gene Name:**ALK**Mutation Id:** COSM28060**Nucleotide Change:** c.3824G>T**Amino Acid Change:** p.R1275L**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6311S**Price:** \$100.00**Gene Name:**ALK**Mutation Id:** COSM99137**Nucleotide Change:** c.3586C>A**Amino Acid Change:** p.L1196M**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6146S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM18764**Nucleotide Change:** c.3921\_3925delAAAAG**Amino Acid Change:** p.E1309fs\*4**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6148S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM13864**Nucleotide Change:** c.4393\_4394delAG**Amino Acid Change:** p.S1465fs\*3**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6144S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM13127**Nucleotide Change:** c.4348C>T**Amino Acid Change:** p.R1450\***Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6412S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM41607**Nucleotide Change:** c.4090\_4091insA**Amino Acid Change:** p.S1364fs\*11**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6435S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM18761**Nucleotide Change:** c.4090delA**Amino Acid Change:** p.S1364fs\*51**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6150S**Price:** \$100.00**Gene Name:**APC**Mutation Id:** COSM13134**Nucleotide Change:** c.637C>T**Amino Acid Change:** p.R213\***Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6424S**Price:** \$100.00**Gene Name:**ATM**Mutation Id:** COSM1235448**Nucleotide Change:** c.1000\_1001insA**Amino Acid Change:** p.S334fs\*5**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5047**Price:** \$100.00**Gene Name:**BRAF**Mutation Id:** COSM476**Nucleotide Change:** 1799T>A**Amino Acid Change:** V600E**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5044**Price:** \$100.00**Gene Name:**BRAF**Mutation Id:** COSM473**Nucleotide Change:** 1798\_1799GT>AA**Amino Acid Change:** V600K**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5045  
**Price:** \$100.00  
**Gene Name:** BRAF  
**Mutation Id:** COSM474  
**Nucleotide Change:** 1798\_1799GT>AG  
**Amino Acid Change:** V600R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5049  
**Price:** \$100.00  
**Gene Name:** BRAF  
**Mutation Id:** COSM1130  
**Nucleotide Change:** 1798G>A  
**Amino Acid Change:** V600M  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5046  
**Price:** \$100.00  
**Gene Name:** BRAF  
**Mutation Id:** COSM475  
**Nucleotide Change:** 1799\_1800TG>AA  
**Amino Acid Change:** V600E  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5048  
**Price:** \$100.00  
**Gene Name:** BRAF  
**Mutation Id:** COSM477  
**Nucleotide Change:** 1799\_1800TG>AT  
**Amino Acid Change:** V600D  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5050  
**Price:** \$100.00  
**Gene Name:** BRAF  
**Mutation Id:** COSM6137  
**Nucleotide Change:** 1799T>G  
**Amino Acid Change:** V600G  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6108S

**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** COSM35891  
**Nucleotide Change:** c.5263\_5264insC(5382insC)  
**Amino Acid Change:** p.Q1756fs\*74  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6107S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** COSM3190163  
**Nucleotide Change:** c.68\_69delAG  
**Amino Acid Change:** p.E23fs\*17  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6106S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** COSM78883  
**Nucleotide Change:** c.5503C>T  
**Amino Acid Change:** p.R1835\*  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6113S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** rs80357997  
**Nucleotide Change:** c.5137delG  
**Amino Acid Change:** p.Val1713Terfs  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6114S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** ClinVar55412  
**Nucleotide Change:** c.5138T>C  
**Amino Acid Change:** p.V1713A  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6115S  
**Price:** \$100.00

**Gene Name:**BRCA1  
**Mutation Id:** COSM148277  
**Nucleotide Change:** c.3548A>G  
**Amino Acid Change:** p.K1183R  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6116S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** COSM148278  
**Nucleotide Change:** c.2612C>T  
**Amino Acid Change:** p.P871L  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6112S  
**Price:** \$100.00  
**Gene Name:**BRCA1  
**Mutation Id:** OMIM: 113705.0025  
**Nucleotide Change:** c.3481\_3491del11  
**Amino Acid Change:** p.E1161Fs  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6119S  
**Price:** \$100.00  
**Gene Name:**BRCA2  
**Mutation Id:** COSM1738242  
**Nucleotide Change:** c.7934delG  
**Amino Acid Change:** p.R2645fs\*3  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6337S  
**Price:** \$100.00  
**Gene Name:**BRCA2  
**Mutation Id:** COSM6048457  
**Nucleotide Change:** c.5067delA  
**Amino Acid Change:** p.K1691fs\*15  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6513S  
**Price:** \$100.00  
**Gene Name:**BRCA2

**Mutation Id:** COSM5078975  
**Nucleotide Change:** c.5066\_5067insA  
**Amino Acid Change:** p.W1692fs\*3  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6294S  
**Price:** \$100.00  
**Gene Name:**CDH1  
**Mutation Id:** COSM972800  
**Nucleotide Change:** c.2195G>A  
**Amino Acid Change:** p.R732Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6295S  
**Price:** \$100.00  
**Gene Name:**CDX2  
**Mutation Id:** COSM1366182  
**Nucleotide Change:** c.916delG  
**Amino Acid Change:** p.V306fs\*2  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6137S  
**Price:** \$100.00  
**Gene Name:**CTNNB1  
**Mutation Id:** COSM5663  
**Nucleotide Change:** c.133T>C  
**Amino Acid Change:** p.S45P  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6138S  
**Price:** \$100.00  
**Gene Name:**CTNNB1  
**Mutation Id:** COSM5662  
**Nucleotide Change:** c.110C>T  
**Amino Acid Change:** p.S37F  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6142S  
**Price:** \$100.00  
**Gene Name:**CTNNB1  
**Mutation Id:** COSM5676

**Nucleotide Change:** c.122C>T

**Amino Acid Change:** p.T41I

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6524S

**Price:** \$100.00

**Gene Name:**CTNNB1

**Mutation Id:** COSM6132

**Nucleotide Change:** c.136\_141delCTGAGT

**Amino Acid Change:** p.L46\_S47del

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6528S

**Price:** \$100.00

**Gene Name:**CTNNB1

**Mutation Id:** COSM5990184

**Nucleotide Change:** c.116\_138del23

**Amino Acid Change:** p.A39fs\*3

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6143S

**Price:** \$100.00

**Gene Name:**CTNNB1

**Mutation Id:** COSM6128

**Nucleotide Change:** c.133\_135delTCT

**Amino Acid Change:** p.S45del

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6052S

**Price:** \$100.00

**Gene Name:**PIK3CA

**Mutation Id:** COSM776

**Nucleotide Change:** c.3140A>T

**Amino Acid Change:** p.H1047L

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6140S

**Price:** \$100.00

**Gene Name:**CTNNB1

**Mutation Id:** COSM5673

**Nucleotide Change:** c.98C>A



**Amino Acid Change:** p.S33Y

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6139S

**Price:** \$100.00

**Gene Name:**CTNNB1

**Mutation Id:** COSM5677

**Nucleotide Change:** c.98C>G

**Amino Acid Change:** p.S33C

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5008

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM12384

**Nucleotide Change:** 2237\_2255>T

**Amino Acid Change:** E746\_S752>V

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5003

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM6255

**Nucleotide Change:** 2239\_2256del18

**Amino Acid Change:** L747\_S752del

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5029

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM6240

**Nucleotide Change:** c.2369C>T

**Amino Acid Change:** p.T790M

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6183S

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM13193

**Nucleotide Change:** c.2477A>G

**Amino Acid Change:** p.N826S

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6343S

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM12988

**Nucleotide Change:** c.2125G>A

**Amino Acid Change:** p.E709K

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6346S

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM236670

**Nucleotide Change:** c.1476C>A

**Amino Acid Change:** p.S492R

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5000

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM6252

**Nucleotide Change:** 2155G>A

**Amino Acid Change:** G719S

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5001

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM6253

**Nucleotide Change:** 2155G>T

**Amino Acid Change:** G719C

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5002

**Price:** \$100.00

**Gene Name:**EGFR

**Mutation Id:** COSM6239

**Nucleotide Change:** 2156G>C

**Amino Acid Change:** G719A

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5015**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM26038**Nucleotide Change:** 2233\_2247del15**Amino Acid Change:** K745\_E749delKELRE**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5024**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM13550**Nucleotide Change:** 2235\_2248>AATTC**Amino Acid Change:** E746\_A750>IP**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5016**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM6223**Nucleotide Change:** 2235\_2249del15**Amino Acid Change:** E746\_A750delIELREA**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5014**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM13551**Nucleotide Change:** 2235\_2252>AAT**Amino Acid Change:** E746\_T751>I**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5017**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM6225**Nucleotide Change:** 2236\_2250del15**Amino Acid Change:** E746\_A750delIELREA**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5009**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM12728**Nucleotide Change:** 2236\_2253del18**Amino Acid Change:** E746\_T751del**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5010**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM12678**Nucleotide Change:** 2237\_2251del15**Amino Acid Change:** E746\_T751>A**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5013**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM12386**Nucleotide Change:** 2237\_2252>T**Amino Acid Change:** E746\_T751>V**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5007**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM12367**Nucleotide Change:** 2237\_2254del18**Amino Acid Change:** E746\_S752>A**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASO-5022**Price:** \$100.00**Gene Name:**EGFR**Mutation Id:** COSM12422**Nucleotide Change:** 2238\_2248>GC**Amino Acid Change:** L747\_A750>P**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5020  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12419  
**Nucleotide Change:** 2238\_2252>GCA  
**Amino Acid Change:** L747\_T751>Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5005  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6220  
**Nucleotide Change:** 2238\_2255del18  
**Amino Acid Change:** E746\_S752>D  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5023  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6218  
**Nucleotide Change:** 2239\_2247del9  
**Amino Acid Change:** L747\_E749delLRE  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5021  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12382  
**Nucleotide Change:** 2239\_2248TTAAGAGAAG>C  
**Amino Acid Change:** L747\_A750>P  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5018  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12383  
**Nucleotide Change:** 2239\_2251>C  
**Amino Acid Change:** L747\_T751>P  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5011

**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6254  
**Nucleotide Change:** 2239\_2253del15  
**Amino Acid Change:** L747\_T751delLREAT  
**Frequency:** ASE-8011 (To be discontinued)

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5006  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12387  
**Nucleotide Change:** 2239\_2258>CA  
**Amino Acid Change:** L747\_P753>Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5019  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6210  
**Nucleotide Change:** 2240\_2251del12  
**Amino Acid Change:** L747\_T751>S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5012  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12369 (COSM6254)  
**Nucleotide Change:** 2240\_2254del15  
**Amino Acid Change:** L747\_T751del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5004  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12370  
**Nucleotide Change:** 2240\_2257del18  
**Amino Acid Change:** L747\_P753>S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5025  
**Price:** \$100.00

**Gene Name:**EGFR  
**Mutation Id:** COSM6241  
**Nucleotide Change:** 2303G>T  
**Amino Acid Change:** S768I  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5026  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12376  
**Nucleotide Change:** 2307\_2308insGCCAGCGTG  
**Amino Acid Change:** V769\_D770insASV  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5027  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12378  
**Nucleotide Change:** 2310\_2311insGGT  
**Amino Acid Change:** D770\_N771insG  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5028  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM12377  
**Nucleotide Change:** 2319\_2320insCAC  
**Amino Acid Change:** H773\_V774insH  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5030  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6224  
**Nucleotide Change:** 2573T>G  
**Amino Acid Change:** L858R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5031  
**Price:** \$100.00  
**Gene Name:**EGFR

**Mutation Id:** COSM6213  
**Nucleotide Change:** 2582T>A  
**Amino Acid Change:** L861Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6182S  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM18422  
**Nucleotide Change:** c.2360A>G  
**Amino Acid Change:** p.Q787R  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6177S  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM6493937/6240  
**Nucleotide Change:** c.2389T>A/c.2369C>T  
**Amino Acid Change:** p.C797S/T790M  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6185S  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM85894  
**Nucleotide Change:** c.2527G>A  
**Amino Acid Change:** p.V843I  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6176S  
**Price:** \$100.00  
**Gene Name:**EGFR  
**Mutation Id:** COSM5945664/6240  
**Nucleotide Change:** c.2390G>C/c.2369C>T  
**Amino Acid Change:** p.C797S/T790M  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6175S  
**Price:** \$100.00  
**Gene Name:**ERBB2  
**Mutation Id:** COSM12553



**Nucleotide Change:** c.2326\_2327insTGT

**Amino Acid Change:** p.G776>VC

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6171S

**Price:** \$100.00

**Gene Name:**ESR1

**Mutation Id:** COSM1074635

**Nucleotide Change:** c.1609T>A

**Amino Acid Change:** p.Y537N

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6170S

**Price:** \$100.00

**Gene Name:**ESR1

**Mutation Id:** COSM1074639

**Nucleotide Change:** c.1610A>C

**Amino Acid Change:** p.Y537S

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6172S

**Price:** \$100.00

**Gene Name:**ESR1

**Mutation Id:** COSM1074637

**Nucleotide Change:** c.1610A>G

**Amino Acid Change:** p.Y537C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6169S

**Price:** \$100.00

**Gene Name:**ESR1

**Mutation Id:** COSM94250

**Nucleotide Change:** c.1613A>G

**Amino Acid Change:** p.D538G

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6354S

**Price:** \$100.00

**Gene Name:**FBXW7

**Mutation Id:** COSM22971

**Nucleotide Change:** c.832C>T

**Amino Acid Change:** p.R278\*

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6355S

**Price:** \$100.00

**Gene Name:**FBXW7

**Mutation Id:** COSM22964

**Nucleotide Change:** c.1099C>T

**Amino Acid Change:** p.R367\*

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6247S

**Price:** \$100.00

**Gene Name:**FGFR2

**Mutation Id:** COSM36903

**Nucleotide Change:** c.755C>G

**Amino Acid Change:** p.S252W

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6250S

**Price:** \$100.00

**Gene Name:**FGFR2

**Mutation Id:** COSM36904

**Nucleotide Change:** c.1124A>G

**Amino Acid Change:** p.Y375C

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6251S

**Price:** \$100.00

**Gene Name:**FGFR2

**Mutation Id:** COSM36906

**Nucleotide Change:** c.1144T>C

**Amino Acid Change:** p.C382R

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6208S

**Price:** \$100.00

**Gene Name:**FGFR3

**Mutation Id:** COSM714

**Nucleotide Change:** c.742C>T

**Amino Acid Change:** p.R248C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6209S

**Price:** \$100.00

**Gene Name:**FGFR3

**Mutation Id:** COSM718

**Nucleotide Change:** c.1118A>G

**Amino Acid Change:** p.Y373C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6211S

**Price:** \$100.00

**Gene Name:**FGFR3

**Mutation Id:** COSM17461

**Nucleotide Change:** c.1111A>T

**Amino Acid Change:** p.S371C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6212S

**Price:** \$100.00

**Gene Name:**FGFR3

**Mutation Id:** COSM24842

**Nucleotide Change:** c.1138G>A

**Amino Acid Change:** p.G380R

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6154S

**Price:** \$100.00

**Gene Name:**FLT3

**Mutation Id:** COSM785

**Nucleotide Change:** c.2503G>C

**Amino Acid Change:** p.D835H

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6157S

**Price:** \$100.00

**Gene Name:**FLT3

**Mutation Id:** COSM19836

**Nucleotide Change:** c.2508\_2510delCAT

**Amino Acid Change:** p.I836delI

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6279S**Price:** \$100.00**Gene Name:**GNAQ**Mutation Id:** COSM28758**Nucleotide Change:** c.626A>C**Amino Acid Change:** p.Q209P**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6281S**Price:** \$100.00**Gene Name:**GNAQ**Mutation Id:** COSM28760**Nucleotide Change:** c.626A>G**Amino Acid Change:** p.Q209R**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6278S**Price:** \$100.00**Gene Name:**GNAQ**Mutation Id:** COSM28757**Nucleotide Change:** c.626A>T**Amino Acid Change:** p.Q209L**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6285S**Price:** \$100.00**Gene Name:**GNAS**Mutation Id:** COSM27899**Nucleotide Change:** c.601C>A**Amino Acid Change:** p.R201S**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6286S**Price:** \$100.00**Gene Name:**GNAS**Mutation Id:** COSM27895**Nucleotide Change:** c.602G>A**Amino Acid Change:** p.R201H**Frequency:** Heterozygous

**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6468S**Price:** \$100.00**Gene Name:**GNAS**Mutation Id:** rs1060500285**Nucleotide Change:** c.686A>G**Amino Acid Change:** p.D229G**Frequency:** Heterozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard HCT116 WT****Catalog:** ASO-5052**Price:** \$100.00**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6076S**Price:** \$100.00**Gene Name:**HRAS**Mutation Id:** COSM483**Nucleotide Change:** c.35G>T**Amino Acid Change:** p.G12V**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6077S**Price:** \$100.00**Gene Name:**HRAS**Mutation Id:** COSM484**Nucleotide Change:** c.35G>A**Amino Acid Change:** p.G12D**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6361S**Price:** \$100.00**Gene Name:**HRAS**Mutation Id:** COSM502**Nucleotide Change:** c.183G>T**Amino Acid Change:** p.Q61H**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6079S**Price:** \$100.00**Gene Name:**HRAS**Mutation Id:** COSM496**Nucleotide Change:** c.181C>A

**Amino Acid Change:** p.Q61K

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6078S

**Price:** \$100.00

**Gene Name:**HRAS

**Mutation Id:** COSM486

**Nucleotide Change:** c.37G>C

**Amino Acid Change:** p.G13R

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6080S

**Price:** \$100.00

**Gene Name:**HRAS

**Mutation Id:** COSM499

**Nucleotide Change:** c.182A>G

**Amino Acid Change:** p.Q61R

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6218S

**Price:** \$100.00

**Gene Name:**IDH1

**Mutation Id:** COSM28746

**Nucleotide Change:** c.395G>A

**Amino Acid Change:** p.R132H

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6226S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM41877

**Nucleotide Change:** c.418C>T

**Amino Acid Change:** p.R140W

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6225S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM41590

**Nucleotide Change:** c.419G>A

**Amino Acid Change:** p.R140Q

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6227S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM41875

**Nucleotide Change:** c.419G>T

**Amino Acid Change:** p.R140L

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6232S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM33731

**Nucleotide Change:** c.514A>G

**Amino Acid Change:** p.R172G

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6231S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM34039

**Nucleotide Change:** c.514A>T

**Amino Acid Change:** p.R172W

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6228S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM33733

**Nucleotide Change:** c.515G>A

**Amino Acid Change:** p.R172K

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6229S

**Price:** \$100.00

**Gene Name:**IDH2

**Mutation Id:** COSM33732

**Nucleotide Change:** c.515G>T

**Amino Acid Change:** p.R172M

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6230S**Price:** \$100.00**Gene Name:**IDH2**Mutation Id:** COSM34090**Nucleotide Change:** c.516G>T**Amino Acid Change:** p.R172S**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6120S**Price:** \$100.00**Gene Name:**JAK2**Mutation Id:** COSM12600**Nucleotide Change:** c.1849G>T**Amino Acid Change:** p.V617F**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6121S**Price:** \$100.00**Gene Name:**JAK2**Mutation Id:** COSM4391514**Nucleotide Change:** c.1843G>T**Amino Acid Change:** p.V615L**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6122S**Price:** \$100.00**Gene Name:**JAK2**Mutation Id:** COSM29117**Nucleotide Change:** c.1849G>A**Amino Acid Change:** p.V617I**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6160S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1226**Nucleotide Change:** c.1670\_1675delGGAAGG**Amino Acid Change:** p.W557\_V559>F**Frequency:** Homozygous



***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6162S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1314**Nucleotide Change:** c.2447A>T**Amino Acid Change:** p.D816V**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6163S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1310**Nucleotide Change:** c.2446G>T**Amino Acid Change:** p.D816Y**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6164S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1311**Nucleotide Change:** c.2446G>C**Amino Acid Change:** p.D816H**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6166S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1255**Nucleotide Change:** c.1676T>C**Amino Acid Change:** p.V559A**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6167S**Price:** \$100.00**Gene Name:**KIT**Mutation Id:** COSM1257**Nucleotide Change:** c.1679T>A**Amino Acid Change:** p.V560D**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6159S  
**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM1221  
**Nucleotide Change:** c.1669T>G  
**Amino Acid Change:** p.W557G  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6165S  
**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM1252  
**Nucleotide Change:** c.1676T>A  
**Amino Acid Change:** p.V559D  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6410S  
**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM21979  
**Nucleotide Change:** c.2446\_2447GA>AT  
**Amino Acid Change:** p.D816I  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6411S  
**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM1254  
**Nucleotide Change:** c.1676\_1684del9  
**Amino Acid Change:** p.V559\_E561del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6423S  
**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM1256  
**Nucleotide Change:** c.1678\_1680delGTT  
**Amino Acid Change:** p.V560del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6531S

**Price:** \$100.00  
**Gene Name:**KIT  
**Mutation Id:** COSM1247  
**Nucleotide Change:** c.1675\_1677delGTT  
**Amino Acid Change:** p.V559del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5038  
**Price:** \$100.00  
**Gene Name:**KRAS  
**Mutation Id:** COSM527  
**Nucleotide Change:** 37G>T  
**Amino Acid Change:** G13C  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6062S  
**Price:** \$100.00  
**Gene Name:**KRAS  
**Mutation Id:** COSM554  
**Nucleotide Change:** c.183A>C  
**Amino Acid Change:** p.Q61H  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5033  
**Price:** \$100.00  
**Gene Name:**KRAS  
**Mutation Id:** COSM517  
**Nucleotide Change:** 34G>A  
**Amino Acid Change:** G12S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5034  
**Price:** \$100.00  
**Gene Name:**KRAS  
**Mutation Id:** COSM518  
**Nucleotide Change:** 34G>C  
**Amino Acid Change:** G12R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5032  
**Price:** \$100.00

**Gene Name:** KRAS  
**Mutation Id:** COSM516  
**Nucleotide Change:** 34G>T  
**Amino Acid Change:** G12C  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5036  
**Price:** \$100.00  
**Gene Name:** KRAS  
**Mutation Id:** COSM521  
**Nucleotide Change:** 35G>A  
**Amino Acid Change:** G12D  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5037  
**Price:** \$100.00  
**Gene Name:** KRAS  
**Mutation Id:** COSM522  
**Nucleotide Change:** 35G>C  
**Amino Acid Change:** G12A  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5035  
**Price:** \$100.00  
**Gene Name:** KRAS  
**Mutation Id:** COSM520  
**Nucleotide Change:** 35G>T  
**Amino Acid Change:** G12V  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5039  
**Price:** \$100.00  
**Gene Name:** KRAS  
**Mutation Id:** COSM528  
**Nucleotide Change:** 37G>A  
**Amino Acid Change:** G13S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5040  
**Price:** \$100.00  
**Gene Name:** KRAS

**Mutation Id:** COSM529  
**Nucleotide Change:** 37G>C  
**Amino Acid Change:** G13R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5041

**Price:** \$100.00

**Gene Name:** KRAS

**Mutation Id:** COSM532

**Nucleotide Change:** 38G>A

**Amino Acid Change:** G13D

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5042

**Price:** \$100.00

**Gene Name:** KRAS

**Mutation Id:** COSM533

**Nucleotide Change:** 38G>C

**Amino Acid Change:** G13A

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASO-5043

**Price:** \$100.00

**Gene Name:** KRAS

**Mutation Id:** COSM534

**Nucleotide Change:** 38G>T

**Amino Acid Change:** G13V

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6201S

**Price:** \$100.00

**Gene Name:** MAP2K1

**Mutation Id:** COSM235614

**Nucleotide Change:** c.370C>T

**Amino Acid Change:** p.P124S

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6204S

**Price:** \$100.00

**Gene Name:** MAP2K1

**Mutation Id:** COSM232755

**Nucleotide Change:** c.607G>A

**Amino Acid Change:** p.E203K

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6202S

**Price:** \$100.00

**Gene Name:**MAP2K1

**Mutation Id:** COSM1315861

**Nucleotide Change:** c.371C>T

**Amino Acid Change:** p.P124L

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6205S

**Price:** \$100.00

**Gene Name:**MAP2K1

**Mutation Id:** COSM1235478

**Nucleotide Change:** c.171G>T

**Amino Acid Change:** p.K57N

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6299S

**Price:** \$100.00

**Gene Name:**MET

**Mutation Id:** COSM707

**Nucleotide Change:** c.3029C>T

**Amino Acid Change:** p.T1010I

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6300S

**Price:** \$100.00

**Gene Name:**MET

**Mutation Id:** COSM699

**Nucleotide Change:** c.3743A>G

**Amino Acid Change:** p.Y1248C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6303S

**Price:** \$100.00

**Gene Name:**MET

**Mutation Id:** COSM706

**Nucleotide Change:** c.504G>T

**Amino Acid Change:** p.E168D

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6296S

**Price:** \$100.00

**Gene Name:**MLH1

**Mutation Id:** COSM2985326

**Nucleotide Change:** c.967C>A

**Amino Acid Change:** p.L323M

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6297S

**Price:** \$100.00

**Gene Name:**MLH1

**Mutation Id:** COSM26085

**Nucleotide Change:** c.1151T>A

**Amino Acid Change:** p.V384D

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6271S

**Price:** \$100.00

**Gene Name:**NOTCH1

**Mutation Id:** COSM12772

**Nucleotide Change:** c.4721T>C

**Amino Acid Change:** p.L1574P

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6272S

**Price:** \$100.00

**Gene Name:**NOTCH1

**Mutation Id:** COSM13047

**Nucleotide Change:** c.4732\_4734delGTG

**Amino Acid Change:** p.V1578delV

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6273S

**Price:** \$100.00

**Gene Name:**NOTCH1

**Mutation Id:** COSM13042

**Nucleotide Change:** c.4778T>C

**Amino Acid Change:** p.L1593P

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6275S

**Price:** \$100.00

**Gene Name:**NOTCH1

**Mutation Id:** COSM12771

**Nucleotide Change:** c.4799T>C

**Amino Acid Change:** p.L1600P

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6277S

**Price:** \$100.00

**Gene Name:**NOTCH1

**Mutation Id:** COSM33747

**Nucleotide Change:** c.5094C>T

**Amino Acid Change:** p.D1698D

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6068S

**Price:** \$100.00

**Gene Name:**NRAS

**Mutation Id:** COSM573

**Nucleotide Change:** c.38G>A

**Amino Acid Change:** p.G13D

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6366S

**Price:** \$100.00

**Gene Name:**NRAS

**Mutation Id:** COSM585

**Nucleotide Change:** c.183A>T

**Amino Acid Change:** p.Q61H

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6368S

**Price:** \$100.00

**Gene Name:**NRAS

**Mutation Id:** COSM566

**Nucleotide Change:** c.35G>T

**Amino Acid Change:** p.G12V

**Frequency:** Heterozygous



***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6072S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM580**Nucleotide Change:** c.181C>A**Amino Acid Change:** p.Q61K**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6071S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM584**Nucleotide Change:** c.182A>G**Amino Acid Change:** p.Q61R**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6073S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM583**Nucleotide Change:** c.182A>T**Amino Acid Change:** p.Q61L**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6200S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM5044298**Nucleotide Change:** c.183\_183delA**Amino Acid Change:** p.E62fs\*6**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6066S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM563**Nucleotide Change:** c.34G>A**Amino Acid Change:** p.G12S**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6067S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM562**Nucleotide Change:** c.34G>T**Amino Acid Change:** p.G12C**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6065S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM564**Nucleotide Change:** c.35G>A**Amino Acid Change:** p.G12D**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6069S**Price:** \$100.00**Gene Name:**NRAS**Mutation Id:** COSM569**Nucleotide Change:** c.37G>C**Amino Acid Change:** p.G13R**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6254S**Price:** \$100.00**Gene Name:**PDGFRA**Mutation Id:** COSM22413**Nucleotide Change:** c.2472C>T**Amino Acid Change:** p.V824V**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6255S**Price:** \$100.00**Gene Name:**PDGFRA**Mutation Id:** COSM736**Nucleotide Change:** c.2525A>T**Amino Acid Change:** p.D842V**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6256S  
**Price:** \$100.00  
**Gene Name:**PDGFRA  
**Mutation Id:** COSM737  
**Nucleotide Change:** c.2524\_2535del12  
**Amino Acid Change:** p.I843\_D846delIMHD  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6257S  
**Price:** \$100.00  
**Gene Name:**PDGFRA  
**Mutation Id:** COSM12400  
**Nucleotide Change:** c.2527\_2538del12  
**Amino Acid Change:** p.I843\_D846delIMHD  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6058S  
**Price:** \$100.00  
**Gene Name:**PIK3CA  
**Mutation Id:** COSM746  
**Nucleotide Change:** c.263G>A  
**Amino Acid Change:** p.R88Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6056S  
**Price:** \$100.00  
**Gene Name:**PIK3CA  
**Mutation Id:** COSM12458  
**Nucleotide Change:** c.1634A>C  
**Amino Acid Change:** p.E545A  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6060S  
**Price:** \$100.00  
**Gene Name:**PIK3CA  
**Mutation Id:** COSM757  
**Nucleotide Change:** c.1258T>C  
**Amino Acid Change:** p.C420R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6053S

**Price:** \$100.00  
**Gene Name:** PIK3CA  
**Mutation Id:** COSM760  
**Nucleotide Change:** c.1624G>A  
**Amino Acid Change:** p.E542K  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6054S  
**Price:** \$100.00  
**Gene Name:** PIK3CA  
**Mutation Id:** COSM763  
**Nucleotide Change:** c.1633G>A  
**Amino Acid Change:** p.E545K  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6055S  
**Price:** \$100.00  
**Gene Name:** PIK3CA  
**Mutation Id:** COSM764  
**Nucleotide Change:** c.1634A>G  
**Amino Acid Change:** p.E545G  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6057S  
**Price:** \$100.00  
**Gene Name:** PIK3CA  
**Mutation Id:** COSM766  
**Nucleotide Change:** c.1636C>A  
**Amino Acid Change:** p.Q546K  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6051S  
**Price:** \$100.00  
**Gene Name:** PIK3CA  
**Mutation Id:** COSM775  
**Nucleotide Change:** c.3140A>G  
**Amino Acid Change:** p.H1047R  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6070S  
**Price:** \$100.00

**Gene Name:**NRAS  
**Mutation Id:** COSM574  
**Nucleotide Change:** c.38G>T  
**Amino Acid Change:** p.G13V  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6243S  
**Price:** \$100.00  
**Gene Name:**PIK3R1  
**Mutation Id:** COSM1069619  
**Nucleotide Change:** c.1718T>C  
**Amino Acid Change:** p.L573P  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6244S  
**Price:** \$100.00  
**Gene Name:**PIK3R1  
**Mutation Id:** COSM85927  
**Nucleotide Change:** c.1721G>T  
**Amino Acid Change:** p.R574I  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6245S  
**Price:** \$100.00  
**Gene Name:**PIK3R1  
**Mutation Id:** COSM1069623  
**Nucleotide Change:** c.1721\_1722insA  
**Amino Acid Change:** p.T576fs\*26  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6246S  
**Price:** \$100.00  
**Gene Name:**PIK3R1  
**Mutation Id:** COSM35737  
**Nucleotide Change:** c.1727\_1729delCGA  
**Amino Acid Change:** p.T576del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6425S  
**Price:** \$100.00  
**Gene Name:**PIK3R1

**Mutation Id:** COSM85885  
**Nucleotide Change:** c.1709\_1735del27  
**Amino Acid Change:** p.L570\_D578del  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6129S  
**Price:** \$100.00  
**Gene Name:**PTEN  
**Mutation Id:** COSM5152  
**Nucleotide Change:** c.388C>T  
**Amino Acid Change:** p.R130\*  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6130S  
**Price:** \$100.00  
**Gene Name:**PTEN  
**Mutation Id:** COSM5216  
**Nucleotide Change:** c.389G>T  
**Amino Acid Change:** p.R130L  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6131S  
**Price:** \$100.00  
**Gene Name:**PTEN  
**Mutation Id:** COSM5089  
**Nucleotide Change:** c.517C>T  
**Amino Acid Change:** p.R173C  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6132S  
**Price:** \$100.00  
**Gene Name:**PTEN  
**Mutation Id:** COSM5039  
**Nucleotide Change:** c.518G>A  
**Amino Acid Change:** p.R173H  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6134S  
**Price:** \$100.00  
**Gene Name:**PTEN  
**Mutation Id:** COSM4391544

**Nucleotide Change:** c.377C>G

**Amino Acid Change:** p.A126G

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6127S

**Price:** \$100.00

**Gene Name:**PTEN

**Mutation Id:** COSM5219

**Nucleotide Change:** c.388C>G

**Amino Acid Change:** p.R130G

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6128S

**Price:** \$100.00

**Gene Name:**PTEN

**Mutation Id:** COSM5033

**Nucleotide Change:** c.389G>A

**Amino Acid Change:** p.R130Q

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6133S

**Price:** \$100.00

**Gene Name:**PTEN

**Mutation Id:** COSM5154

**Nucleotide Change:** c.697C>T

**Amino Acid Change:** p.R233\*

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6123S

**Price:** \$100.00

**Gene Name:**RB1

**Mutation Id:** COSM892

**Nucleotide Change:** c.1735C>T

**Amino Acid Change:** p.R579\*

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6125S

**Price:** \$100.00

**Gene Name:**RB1

**Mutation Id:** COSM878

**Nucleotide Change:** c.751C>T

**Amino Acid Change:** p.R251\*

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6315S

**Price:** \$100.00

**Gene Name:**RET

**Mutation Id:** COSM968

**Nucleotide Change:** c.1894\_1899delGAGCTG

**Amino Acid Change:** p.E632\_L633del

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard RKO WT***

**Catalog:** ASO-5051

**Price:** \$100.00

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6322S

**Price:** \$100.00

**Gene Name:**ROS1

**Mutation Id:** COSM1697823

**Nucleotide Change:** c.4924G>A

**Amino Acid Change:** p.E1642K

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6319S

**Price:** \$100.00

**Gene Name:**SMAD4

**Mutation Id:** COSM14049

**Nucleotide Change:** c.1067C>T

**Amino Acid Change:** p.P356L

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6320S

**Price:** \$100.00

**Gene Name:**SMAD4

**Mutation Id:** COSM1226726

**Nucleotide Change:** c.1066C>T

**Amino Acid Change:** p.P356S

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6372S

**Price:** \$100.00



**Gene Name:**STK11  
**Mutation Id:** COSM21360  
**Nucleotide Change:** c.1062C>G  
**Amino Acid Change:** p.F354L  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6375S  
**Price:** \$100.00  
**Gene Name:**STK11  
**Mutation Id:** COSM20943  
**Nucleotide Change:** c.508C>T  
**Amino Acid Change:** p.Q170\*  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6376S  
**Price:** \$100.00  
**Gene Name:**STK11  
**Mutation Id:** COSM21354  
**Nucleotide Change:** c.511G>A  
**Amino Acid Change:** p.G171S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6091S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10662  
**Nucleotide Change:** c.743G>A  
**Amino Acid Change:** p.R248Q  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6082S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10648  
**Nucleotide Change:** c.524G>A  
**Amino Acid Change:** p.R175H  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6083S  
**Price:** \$100.00  
**Gene Name:**TP53

**Mutation Id:** COSM10870  
**Nucleotide Change:** c.523C>G  
**Amino Acid Change:** p.R175G  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6084S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10718  
**Nucleotide Change:** c.524G>T  
**Amino Acid Change:** p.R175L  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6094S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10817  
**Nucleotide Change:** c.747G>T  
**Amino Acid Change:** p.R249S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6095S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM43629  
**Nucleotide Change:** c.745A>T  
**Amino Acid Change:** p.R249W  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6096S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM43871  
**Nucleotide Change:** c.746G>T  
**Amino Acid Change:** p.R249M  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6097S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10668

**Nucleotide Change:** c.745A>G

**Amino Acid Change:** p.R249G

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6191S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10690

**Nucleotide Change:** c.473G>A

**Amino Acid Change:** p.R158H

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6192S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10714

**Nucleotide Change:** c.473G>T

**Amino Acid Change:** p.R158L

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6195S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10670

**Nucleotide Change:** c.469G>T

**Amino Acid Change:** p.V157F

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6196S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM43903

**Nucleotide Change:** c.470T>G

**Amino Acid Change:** p.V157G

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6198S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10889

**Nucleotide Change:** c.536A>G

**Amino Acid Change:** p.H179R

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6085S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10758

**Nucleotide Change:** c.659A>G

**Amino Acid Change:** p.Y220C

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6105S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM13747

**Nucleotide Change:** c.1146delA

**Amino Acid Change:** p.K382fs\*>12

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6379S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10808

**Nucleotide Change:** c.488A>G

**Amino Acid Change:** p.Y163C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6380S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM44623

**Nucleotide Change:** c.487T>A

**Amino Acid Change:** p.Y163N

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6381S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM43846

**Nucleotide Change:** c.487T>C

**Amino Acid Change:** p.Y163H

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6382S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM43559

**Nucleotide Change:** c.517G>T

**Amino Acid Change:** p.V173L

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6383S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM11084

**Nucleotide Change:** c.517G>A

**Amino Acid Change:** p.V173M

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6387S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM43947

**Nucleotide Change:** c.614A>G

**Amino Acid Change:** p.Y205C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6388S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM43844

**Nucleotide Change:** c.613T>G

**Amino Acid Change:** p.Y205D

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6389S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10654

**Nucleotide Change:** c.637C>T

**Amino Acid Change:** p.R213\*

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6392S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM43687**Nucleotide Change:** c.641A>G**Amino Acid Change:** p.H214R**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6393S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM10725**Nucleotide Change:** c.701A>G**Amino Acid Change:** p.Y234C**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6394S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM11152**Nucleotide Change:** c.700T>C**Amino Acid Change:** p.Y234H**Frequency:** Homozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6399S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM10810**Nucleotide Change:** c.725G>T**Amino Acid Change:** p.C242F**Frequency:** Heterozygous***Onco-Ref™ FFPE Cell Scroll Reference Standard*****Catalog:** ASE-6436S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM45666**Nucleotide Change:** c.810\_811insN**Amino Acid Change:** p.E271fs\*35**Frequency:** Heterozygous

**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6514S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM45975**Nucleotide Change:** c.703delA**Amino Acid Change:** p.N235fs\*12**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6515S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM44543**Nucleotide Change:** c.464\_465insN**Amino Acid Change:** p.R156fs\*25**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6516S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM43546**Nucleotide Change:** c.516\_517insN**Amino Acid Change:** p.V173fs\*8**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6517S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM44400**Nucleotide Change:** c.702\_703insN**Amino Acid Change:** p.N235fs\*5**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard****Catalog:** ASE-6518S**Price:** \$100.00**Gene Name:**TP53**Mutation Id:** COSM1318430**Nucleotide Change:** c.516delT**Amino Acid Change:** p.V173fs\*1**Frequency:** Homozygous**Onco-Ref™ FFPE Cell Scroll Reference Standard**

**Catalog:** ASE-6519S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM44361  
**Nucleotide Change:** c.533\_534insN  
**Amino Acid Change:** p.H178fs\*3  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6520S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM43570  
**Nucleotide Change:** c.529\_546del18  
**Amino Acid Change:** p.P177\_C182delPHHERC  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6521S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM1324785  
**Nucleotide Change:** c.530\_535delCCCACC  
**Amino Acid Change:** p.P177\_H178delPH  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6522S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM46406  
**Nucleotide Change:** c.643delA  
**Amino Acid Change:** p.S215fs\*32  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6523S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM44887  
**Nucleotide Change:** c.644delG  
**Amino Acid Change:** p.S215fs\*32  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6525S



**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM69179  
**Nucleotide Change:** c.560-1\_583del25  
**Amino Acid Change:** p.?  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6526S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM5982134  
**Nucleotide Change:** c.613\_614insT  
**Amino Acid Change:** p.Y205fs\*4  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6527S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM1716966  
**Nucleotide Change:** c.613\_614insC  
**Amino Acid Change:** p.Y205fs\*4  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6529S  
**Price:** \$100.00  
**Gene Name:**CTNNB1  
**Mutation Id:** COSM27310  
**Nucleotide Change:** c.139A>T  
**Amino Acid Change:** p.S47C  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6530S  
**Price:** \$100.00  
**Gene Name:**CTNNB1  
**Mutation Id:** COSM1423011  
**Nucleotide Change:** c.132T>C  
**Amino Acid Change:** p.P44P  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6532S  
**Price:** \$100.00

**Gene Name:**TP53  
**Mutation Id:** COSM45847  
**Nucleotide Change:** c.574\_575delCA  
**Amino Acid Change:** p.Q192fs\*16  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6533S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM4735408  
**Nucleotide Change:** c.571\_581del11  
**Amino Acid Change:** p.P191fs\*14  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6194S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM11087  
**Nucleotide Change:** c.472C>G  
**Amino Acid Change:** p.R158G  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6193S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM43848  
**Nucleotide Change:** c.472C>T  
**Amino Acid Change:** p.R158C  
**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6086S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10646  
**Nucleotide Change:** c.725G>A  
**Amino Acid Change:** p.C242Y  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6087S  
**Price:** \$100.00  
**Gene Name:**TP53

**Mutation Id:** COSM6932  
**Nucleotide Change:** c.733G>A  
**Amino Acid Change:** p.G245S  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6090S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM11081  
**Nucleotide Change:** c.733G>T  
**Amino Acid Change:** p.G245C  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6088S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM43606  
**Nucleotide Change:** c.734G>A  
**Amino Acid Change:** p.G245D  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6089S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM11196  
**Nucleotide Change:** c.734G>T  
**Amino Acid Change:** p.G245V  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6092S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM10656  
**Nucleotide Change:** c.742C>T  
**Amino Acid Change:** p.R248W  
**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6093S  
**Price:** \$100.00  
**Gene Name:**TP53  
**Mutation Id:** COSM6549

**Nucleotide Change:** c.743G>T

**Amino Acid Change:** p.R248L

**Frequency:** Homozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6099S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10659

**Nucleotide Change:** c.817C>T

**Amino Acid Change:** p.R273C

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6098S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10660

**Nucleotide Change:** c.818G>A

**Amino Acid Change:** p.R273H

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6101S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM11232

**Nucleotide Change:** c.842A>G

**Amino Acid Change:** p.D281G

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6103S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM10992

**Nucleotide Change:** c.844C>G

**Amino Acid Change:** p.R282G

**Frequency:** Heterozygous

***Onco-Ref™ FFPE Cell Scroll Reference Standard***

**Catalog:** ASE-6104S

**Price:** \$100.00

**Gene Name:**TP53

**Mutation Id:** COSM44338

**Nucleotide Change:** c.845G>A

**Amino Acid Change:** p.R282Q

**Frequency:** Heterozygous