

# Analysis of Mutations in Codons 600 and 464-469 in BRAF

NOTE: This BRAF report is intended to be used only in combination with the dedicated BRAF Pyro Kits for applications described in the respective BRAF Pyro Kit handbooks.

## Run Info

Run Name	BRAF example run
Operator	QIAGEN
Run Date/Time	2012-07-09 17:06:32
Instrument Method	PyroMark Q24 Method 005

## Summary

Well	Assay Name	Sample ID	Result	Frequency [% units]	Nucleotide Substitution	Amino Acid Substitution	Info
A1	Codon 600	WT control	No mutation detected				
A2	Codon 600	K110652	Potential low level mutation	4.8	1799T>A	V600E	⚠
A3	Codon 600	K110653	No mutation detected				
A4	Codon 600	K110654	Mutation	34.6	1798_1799GT>AG	V600R	
A5	Codon 600	K100076	Mutation	26.4	1798_1799GT>AA	V600K	
A6	Codon 600	K110282	No mutation detected				
A8	Codon 600	NTC	Failed Analysis				⚠
C1	Codons 464 to 469	WT control	No mutation detected				
C2	Codons 464 to 469	K110652	No mutation detected				
C3	Codons 464 to 469	K110653	Mutation	29.0	1406G>T	G469V	
C4	Codons 464 to 469	K110654	No mutation detected				
C5	Codons 464 to 469	K100076	No mutation detected				
C6	Codons 464 to 469	K110282	Mutation	27.8	1391G>A	G464E	
C8	Codons 464 to 469	NTC	Failed Analysis				⚠

⚠ See detailed results below.

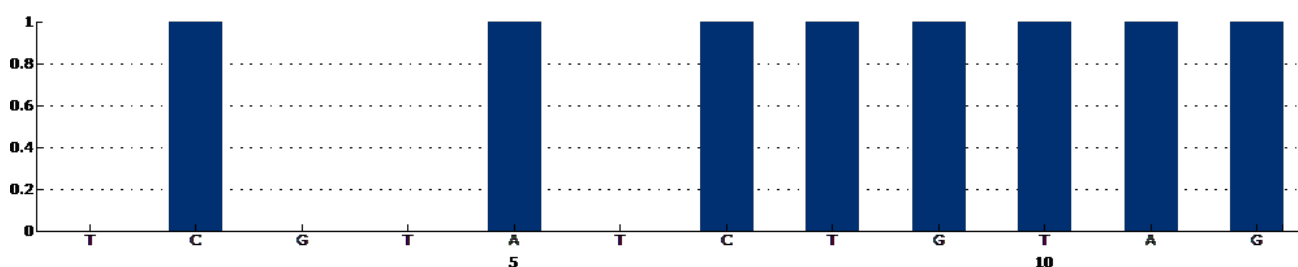
NOTE: The result must be validated by comparing the observed peaks with the expected peak heights displayed as grey bars. For further information about data evaluation and result interpretation please refer to the handbook.

## Assay Setups

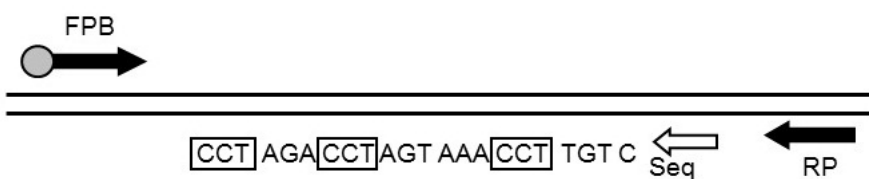
### Codon 600



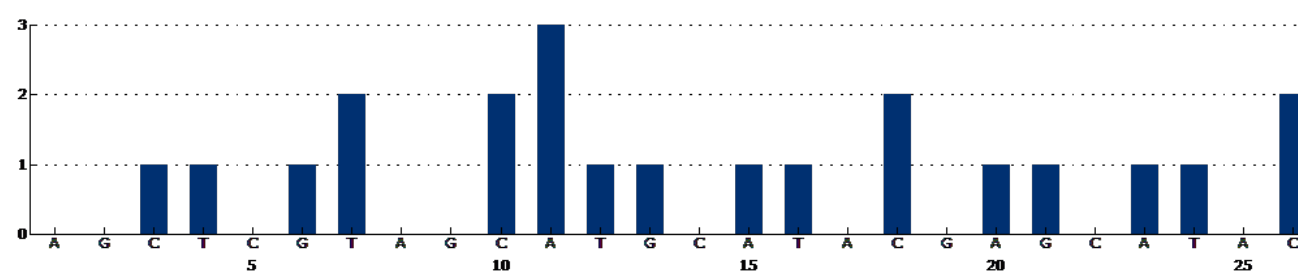
Theoretical Histogram of Wild Type



### Codons 464 to 469



Theoretical Histogram of Wild Type

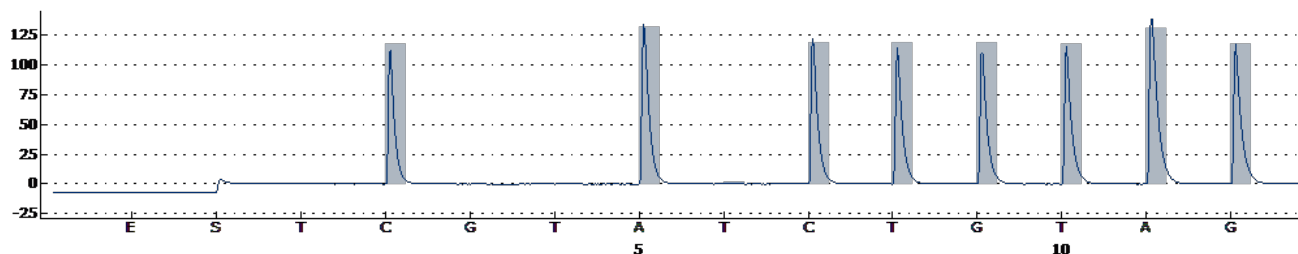


## Detailed Results

### Well: A1

Assay: BRAF codon 600

Sample ID: WT control

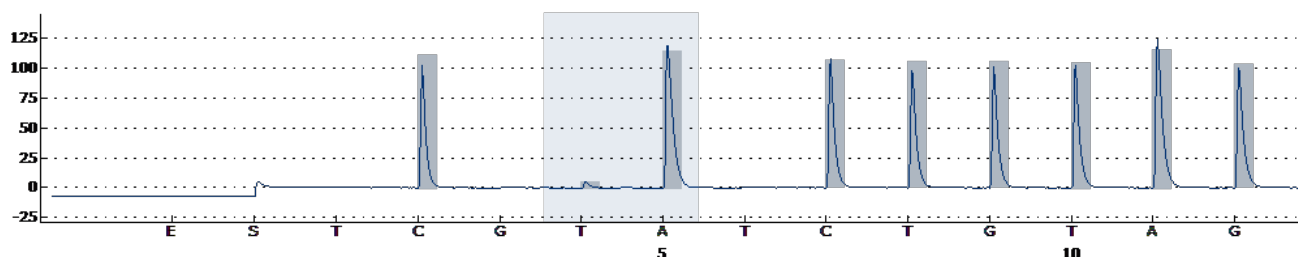


Result	No mutation detected
Quality	Passed

### Well: A2

Assay: BRAF codon 600

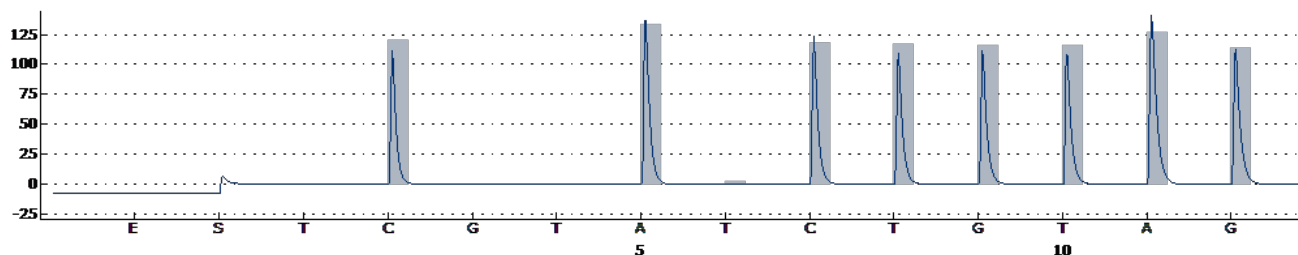
Sample ID: K110652



Result	Potential low level mutation
Frequency	4.8 % units (LOD: 2.4 % units)
Nucleotide Substitution	T799T>A
Amino Acid Substitution	V600E
Quality	Check
Warnings	Only judge as mutation if verified in duplicate and if different from WT control. Otherwise judge as no mutation detected.

### Well: A3

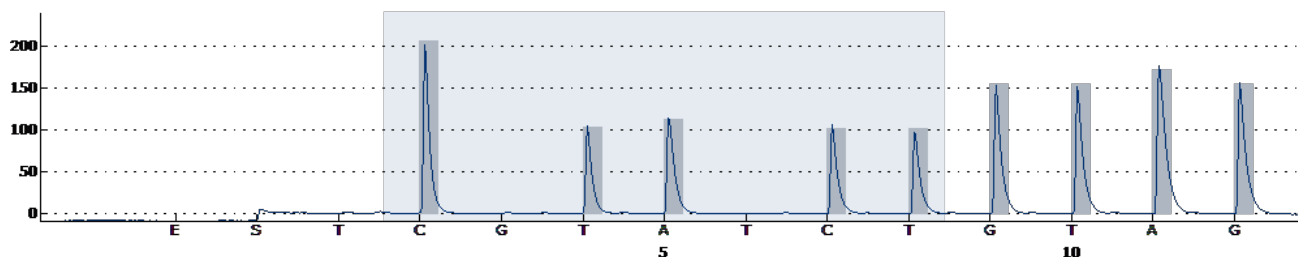
Assay: BRAF codon 600  
Sample ID: K110653



Result	No mutation detected
Quality	Passed

### Well: A4

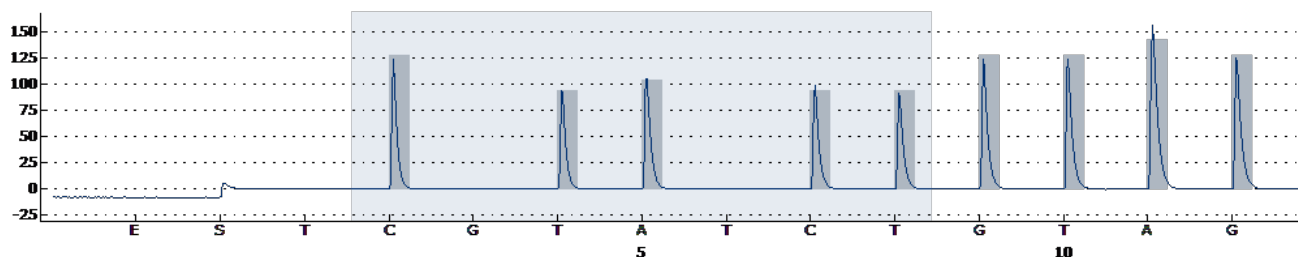
Assay: BRAF codon 600  
Sample ID: K110654



Result	Mutation
Frequency	34.6 % units (LOD: 2.2 % units)
Nucleotide Substitution	1798_1799GT>AG
Amino Acid Substitution	V600R
Quality	Passed

**Well: A5**

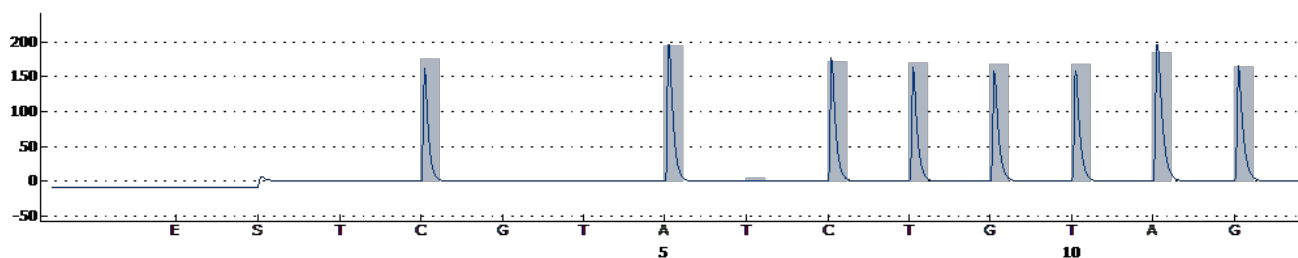
Assay: BRAF codon 600  
Sample ID: K100076



Result	<b>Mutation</b>
Frequency	26.4 % units (LOD: 2.1 % units)
Nucleotide Substitution	1798_1799GT>AA
Amino Acid Substitution	V600K
Quality	Passed

**Well: A6**

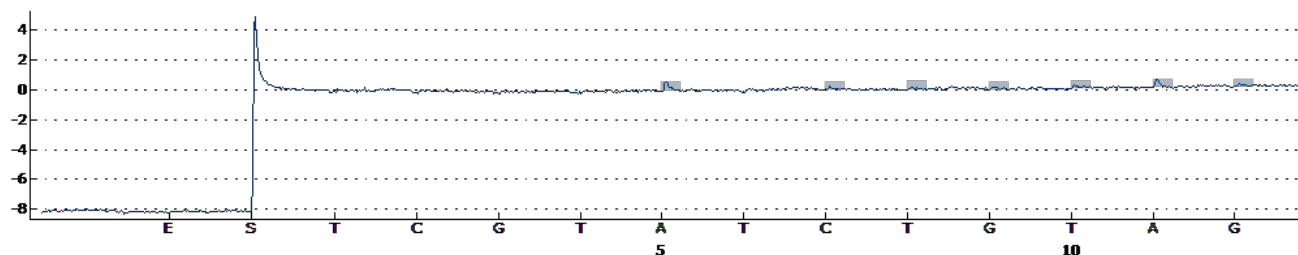
Assay: BRAF codon 600  
Sample ID: K110282



Result	<b>No mutation detected</b>
Quality	Passed

### Well: A8

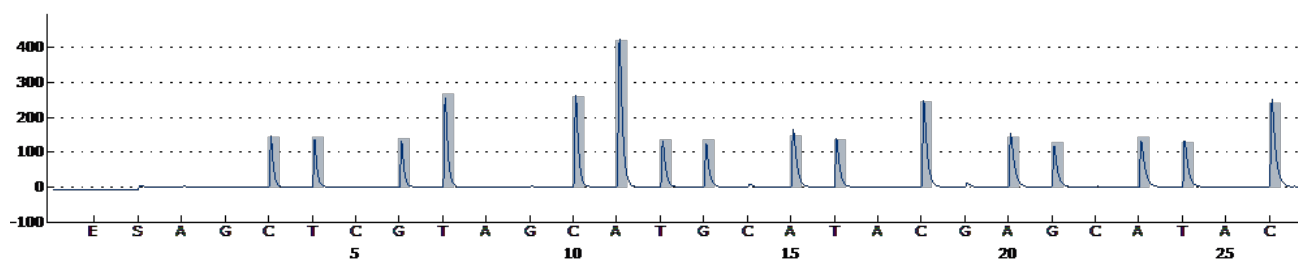
Assay: BRAF codon 600  
Sample ID: NTC



Result	None
Quality	Insufficient data for analysis
Warnings	Not analyzable due to lack of data (overall).

### Well: C1

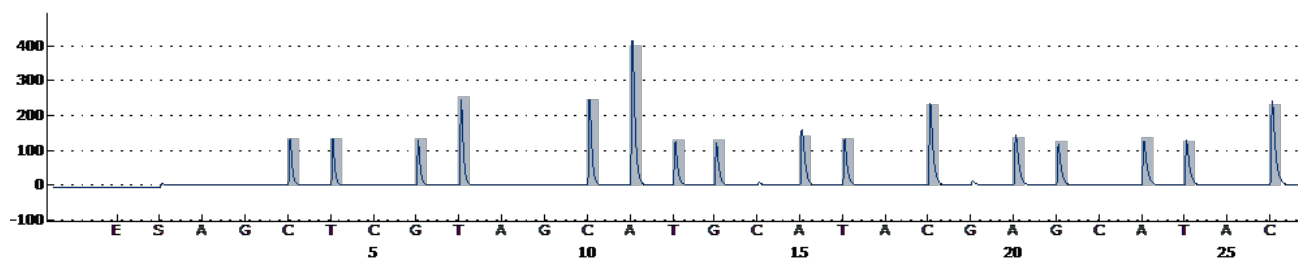
Assay: BRAF codons 464-469  
Sample ID: WT control



Result	No mutation detected
Quality	Passed

### Well: C2

Assay: BRAF codons 464-469  
Sample ID: K110652

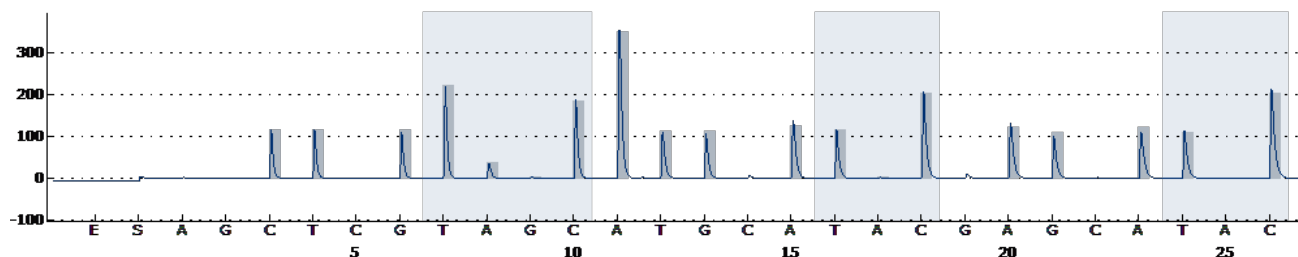


Result	No mutation detected
Quality	Passed

**Well: C3**

Assay: BRAF codons 464-469

Sample ID: K110653

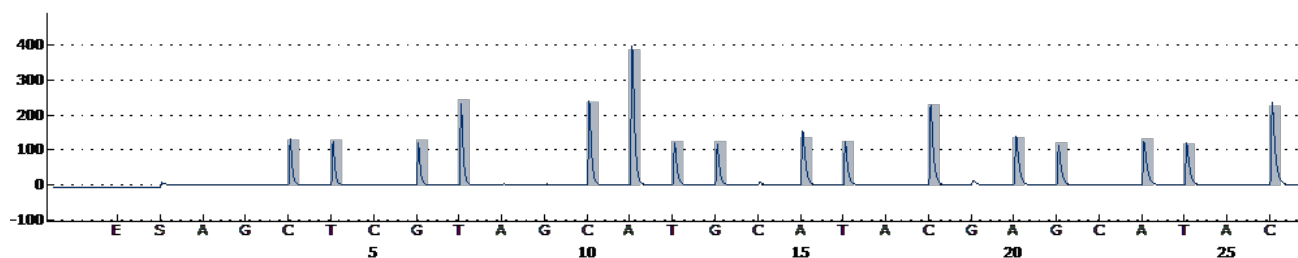


Result	<b>Mutation</b>
Frequency	29.0 % units (LOD: 3.1 % units)
Nucleotide Substitution	1406G>T
Amino Acid Substitution	G469V
Quality	Passed

**Well: C4**

Assay: BRAF codons 464-469

Sample ID: K110654

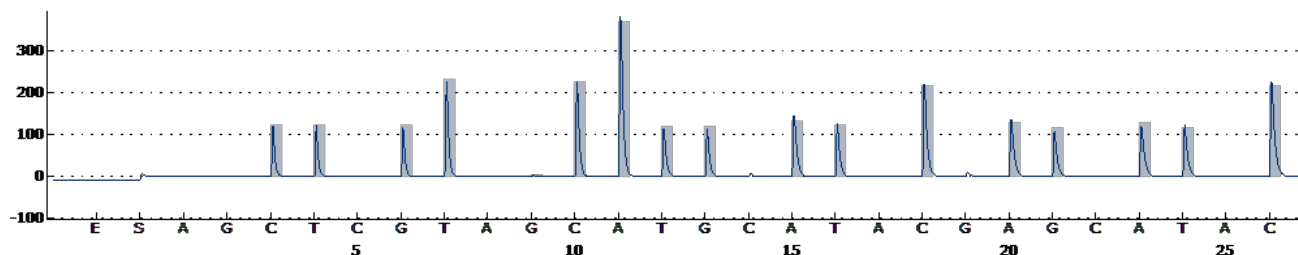


Result	<b>No mutation detected</b>
Quality	Passed

**Well: C5**

Assay: BRAF codons 464-469

Sample ID: K100076

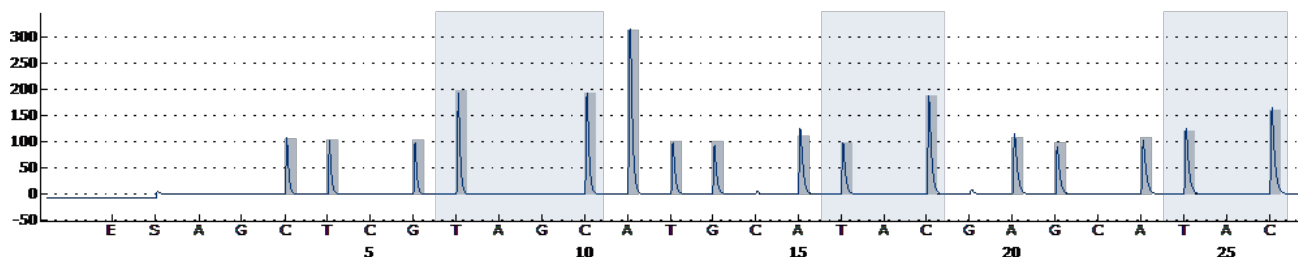


Result	No mutation detected
Quality	Passed

**Well: C6**

Assay: BRAF codons 464-469

Sample ID: K110282



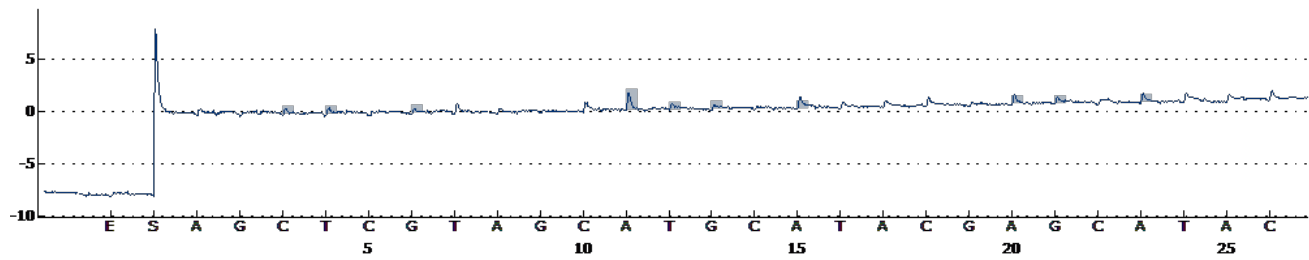
Result	Mutation
Frequency	27.8 % units (LOD: 3.4 % units)
Nucleotide Substitution	1391G>A
Amino Acid Substitution	G464E
Quality	Passed



**Well: C8**

Assay: BRAF codons 464-469

Sample ID: NTC



Result	None
Quality	Insufficient data for analysis
Warnings	Not analyzable due to lack of data (overall).