



[ Oncofocus ] Patient Test Report

<b>Surname</b>		<b>Requesting Clinician</b>	
<b>Forename</b>		<b>Date requested</b>	
<b>DOB</b>		<b>Tumour %</b>	95%
<b>Gender</b>		<b>Tumour %</b>	-
<b>Histology #</b>	Male	<b>(macrodissected)</b>	
<b>Primary site</b>			
<b>Tumour subtype</b>	Brain		
<b>Tissue Type</b>	Glioblastoma Cortex Brain		

#### Comment:

The DNA and RNA extracted from this sample were of optimal quality. The Oncofocus assay on which the sample was run met all assay specific quality metrics.

237 genes were targeted using 2530 unique amplicons covering oncogenes, fusion genes, genes susceptible to copy number variation and tumour suppressors. Actionable genetic variants detected by Oncofocus are linked to 582 anti-cancer targeted therapies.

The following actionable variants were detected, this confirms the original result, no additional variants were detected in the RNA from this sample.

## Variant Summary

### Sample Cancer Type: Glioblastoma

In this cancer type
  In other cancer type
  In this cancer type and other cancer types
  Contraindicated
  Both for use and contraindicated
  No evidence

Gene Variant	EMA	US-FDA	ESMO	US-NCCN	Global Clinical Trials
BRAF p.(V600E) c.1799T>A	<input type="radio"/> (5)	<input type="radio"/> (5)	<input type="radio"/> (5)	<input checked="" type="radio"/> (10)	<input checked="" type="radio"/> (24)

**EMA:** European Medicine Agency, **US-FDA:** United States-Food and Drug Administration, **ESMO:** European Society for Medical Oncology, **US-NCCN:** United States-National Comprehensive Cancer Network. Numbers in parentheses indicate the number of relevant therapies with evidence. Hotspot variants with >10% alternate allele reads, and in >10 unique reads are classified as 'detected' with an assay sensitivity and positive predictive value (PPV) of 92%. Copy number variants; amplifications of CN > 6 with the 5% confidence value of ≥4 after normalization and deletions with 95% CI ≤ 1 are classified as present when the tumour% > 50% with a sensitivity of 80% and PPV 100%. Gene Fusions are reported when occurring in >20 counts and meeting the thresholds of assay specific internal RNA quality control with a sensitivity of 92% and PPV of 99%. Supplementary technical information is available upon request.

#### ONC17-:

www.oncologica.com

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Relevant Therapy Summary

In this cancer type  
  In other cancer type  
  In this cancer type and other cancer types  
  Contraindicated  
  Both for use and contraindicated  
  No evidence

### BRAF p.(V600E) c.1799T>A

Relevant Therapy	EMA	US-FDA	ESMO	US-NCCN	Global Clinical Trials*
cobimetinib + vemurafenib	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> (II)
dabrafenib + trametinib	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> (II)
vemurafenib	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> (I)
dabrafenib	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
trametinib	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
ipilimumab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
nivolumab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
pembrolizumab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
BRAF inhibitor	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
BRAF inhibitor + MEK inhibitor	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
ipilimumab + nivolumab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
cetuximab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
panitumumab	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
sorafenib + chemotherapy	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (II)
AB-024	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
ASN-003	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
BAL-3833	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
cetuximab + vemurafenib + chemotherapy	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
dabrafenib + navitoclax + trametinib, dabrafenib + trametinib	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
LNP3794	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)
NKTR-214	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/> (I/II)

\* Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available. See global clinical trials section in the pages to follow.

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Relevant Therapy Summary (continued)

In this cancer type  
  In other cancer type  
  In this cancer type and other cancer types  
  Contraindicated  
  Both for use and contraindicated  
  No evidence

### BRAF p.(V600E) c.1799T>A (continued)

Relevant Therapy	EMA	US-FDA	ESMO	US-NCCN	Global Clinical Trials*
PLX-8394	×	×	×	×	● (I/II)
abemaciclib + LY3214996 , LY3214996 , LY3214996 + chemotherapy, LY3214996 + midazolam	×	×	×	×	● (I)
BGB-283	×	×	×	×	● (I)
BVD-523	×	×	×	×	● (I)
CB-5083	×	×	×	×	● (I)
crizotinib + vemurafenib, sorafenib + vemurafenib	×	×	×	×	● (I)
dabrafenib + onalespib + trametinib	×	×	×	×	● (I)
dabrafenib, dabrafenib + trametinib	×	×	×	×	● (I)
LTT-462	×	×	×	×	● (I)
LXH254	×	×	×	×	● (I)
RO-5126766	×	×	×	×	● (I)
trametinib + radiation therapy, trametinib + surgical intervention	×	×	×	×	● (I)
vemurafenib + itraconazole, vemurafenib + rifampin	×	×	×	×	● (I)

\* Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available. See global clinical trials section in the pages to follow.

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Current EMA Information

In this cancer type     In other cancer type     In this cancer type and other cancer types     Contraindicated

EMA information is current as of 2017-01-03. For the most up-to-date information, search [www.ema.europa.eu/ema](http://www.ema.europa.eu/ema).

### BRAF p.(V600E) c.1799T>A

#### cobimetinib + vemurafenib

Cancer type: Melanoma

Label as of: 2016-07-27

Variant class: BRAF V600 mutation

Reference:

[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/003960/WC500198563.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/003960/WC500198563.pdf)

#### dabrafenib + trametinib, trametinib

Cancer type: Melanoma

Label as of: 2016-09-28

Variant class: BRAF V600 mutation

Reference:

[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/002643/WC500169657.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/002643/WC500169657.pdf)

#### dabrafenib, dabrafenib + trametinib

Cancer type: Melanoma

Label as of: 2016-06-22

Variant class: BRAF V600 mutation

Reference:

[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/002604/WC500149671.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/002604/WC500149671.pdf)

#### vemurafenib

Cancer type: Melanoma

Label as of: 2017-01-16

Variant class: BRAF V600 mutation

Reference:

[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/002409/WC500124317.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/002409/WC500124317.pdf)

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Current US-FDA Information

In this cancer type     In other cancer type     In this cancer type and other cancer types     Contraindicated

US-FDA information is current as of 2017-01-03. For the most up-to-date information, search [www.fda.gov](http://www.fda.gov).

### BRAF p.(V600E) c.1799T>A

#### cobimetinib + vemurafenib

Cancer type: Melanoma

Label as of: 2016-05-31

Variant class: BRAF V600E mutation

##### Indications and usage:

COTELLIC™ is a kinase inhibitor indicated for the treatment of patients with unresectable or metastatic melanoma with a BRAF V600E or V600K mutation, in combination with vemurafenib.

Limitation of Use: COTELLIC™ is not indicated for treatment of patients with wild-type BRAF melanoma.

##### Reference:

[http://www.accessdata.fda.gov/drugsatfda\\_docs/label/2016/206192s001lbl.pdf](http://www.accessdata.fda.gov/drugsatfda_docs/label/2016/206192s001lbl.pdf)

#### dabrafenib + trametinib, trametinib

Cancer type: Melanoma

Label as of: 2015-11-20

Variant class: BRAF V600E mutation

##### Indications and usage:

MEKINIST™ is a kinase inhibitor indicated, as a single agent or in combination with dabrafenib, for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E or V600K mutations as detected by an FDA approved test.

Limitation of use: MEKINIST™ is not indicated for treatment of patients who have received prior BRAF-inhibitor therapy.

##### Reference:

[http://www.accessdata.fda.gov/drugsatfda\\_docs/label/2015/204114s004lbl.pdf](http://www.accessdata.fda.gov/drugsatfda_docs/label/2015/204114s004lbl.pdf)

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****○ dabrafenib, dabrafenib + trametinib**

Cancer type: Melanoma

Label as of: 2016-06-16

Variant class: BRAF V600E mutation

**Indications and usage:**

- TAFINLAR® is a kinase inhibitor indicated as a single agent for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E mutation as detected by an FDA-approved test.
- TAFINLAR® is indicated, in combination with trametinib, for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E or V600K mutations as detected by an FDA-approved test.

Limitation of Use: TAFINLAR® is not indicated for treatment of patients with wild-type BRAF melanoma.

**Reference:**[http://www.accessdata.fda.gov/drugsatfda\\_docs/label/2016/202806s005lbl.pdf](http://www.accessdata.fda.gov/drugsatfda_docs/label/2016/202806s005lbl.pdf)**○ vemurafenib**

Cancer type: Melanoma

Label as of: 2016-08-31

Variant class: BRAF V600E mutation

**Indications and usage:**

ZELBORAF® is a kinase inhibitor indicated for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E mutation as detected by an FDA-approved test.

Limitation of Use: ZELBORAF® is not indicated for treatment of patients with wild-type BRAF melanoma.

**Reference:**[http://www.accessdata.fda.gov/drugsatfda\\_docs/label/2016/202429s009lbl.pdf](http://www.accessdata.fda.gov/drugsatfda_docs/label/2016/202429s009lbl.pdf)

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Current ESMO Information

In this cancer type     In other cancer type     In this cancer type and other cancer types     Contraindicated

ESMO information is current as of 2016-12-01. For the most up-to-date information, search [www.esmo.org](http://www.esmo.org).

### BRAF p.(V600E) c.1799T>A

#### BRAF inhibitor

Cancer type: Melanoma

Variant class: BRAF V600 mutation

ESMO Recommendation category: II, B

Population segment (Line of therapy):

- Metastatic (preferred) or primary tumour (First and second line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Cutaneous Melanoma [Ann Oncol (2015) 26 (suppl 5): v126-v132.]

#### BRAF inhibitor + MEK inhibitor

Cancer type: Melanoma

Variant class: BRAF V600 mutation

ESMO Recommendation category: II, B

Population segment (Line of therapy):

- Metastatic (preferred) or primary tumour (First and second line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Cutaneous Melanoma [Ann Oncol (2015) 26 (suppl 5): v126-v132.]

#### ipilimumab

Cancer type: Melanoma

Variant class: BRAF V600 mutation

ESMO Recommendation category: II, B

Population segment (Line of therapy):

- Metastatic (preferred) or primary tumour (First and second line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Cutaneous Melanoma [Ann Oncol (2015) 26 (suppl 5): v126-v132.]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.



**BRAF p.(V600E) c.1799T>A (continued)** **nivolumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

ESMO Recommendation category: II, B

Population segment (Line of therapy):

- Metastatic (preferred) or primary tumour (First and second line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Cutaneous Melanoma [Ann Oncol (2015) 26 (suppl 5): v126-v132.]

 **pembrolizumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

ESMO Recommendation category: II, B

Population segment (Line of therapy):

- Metastatic (preferred) or primary tumour (First and second line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Cutaneous Melanoma [Ann Oncol (2015) 26 (suppl 5): v126-v132.]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Current US-NCCN Information

In this cancer type     In other cancer type     In this cancer type and other cancer types     Contraindicated

US-NCCN information is current as of 2016-12-01. For the most up-to-date information, search [www.nccn.org](http://www.nccn.org).  
For NCCN International Adaptations & Translations, search [www.nccn.org/global/international\\_adaptations.aspx](http://www.nccn.org/global/international_adaptations.aspx).

### BRAF p.(V600E) c.1799T>A

#### dabrafenib

Cancer type: Non-Small Cell Lung Cancer

Variant class: BRAF V600E mutation

US-NCCN Recommendation category: 2A

Population segment (Line of therapy):

- NSCLC (Not specified)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 3.2017]

#### dabrafenib + trametinib

Cancer type: Non-Small Cell Lung Cancer

Variant class: BRAF V600E mutation

US-NCCN Recommendation category: 2A

Population segment (Line of therapy):

- NSCLC (Not specified)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 3.2017]

#### vemurafenib

Cancer type: Non-Small Cell Lung Cancer

Variant class: BRAF V600E mutation

US-NCCN Recommendation category: 2A

Population segment (Line of therapy):

- NSCLC (Not specified)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 3.2017]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)** **cobimetinib + vemurafenib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 1

Population segment (Line of therapy):

- Metastatic or unresectable (First line therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **dabrafenib + trametinib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 1

Population segment (Line of therapy):

- Metastatic or unresectable disease (First-line therapy) (preferred)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **nivolumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 1

Population segment (Line of therapy):

- Metastatic or unresectable disease (First-line therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **pembrolizumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 1

Population segment (Line of therapy):

- Metastatic or unresectable disease (First-line therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)** **cobimetinib + vemurafenib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (preferred)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **dabrafenib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, if BRAF/MEK inhibitor combination therapy is contraindicated, BRAF-inhibitor monotherapy with dabrafenib or vemurafenib are recommended options, especially in a population that is not an appropriate candidate for checkpoint immunotherapy (First-line or second-line therapy).
- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy, if not used as first-line and not of the same class (Second-line or Subsequent therapy).

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **dabrafenib + trametinib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (preferred)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)** **ipilimumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (Second-line or Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **ipilimumab + nivolumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease (First-line therapy)
- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (Second-line or Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **nivolumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (Second-line or Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)** **pembrolizumab**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, Disease progression or Maximum clinical benefit from BRAF targeted therapy (Second-line or Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **vemurafenib**

Cancer type: Melanoma

Variant class: BRAF V600 mutation

US-NCCN Recommendation category: 2A

## Population segment (Line of therapy):

- Metastatic or unresectable disease, contraindicated to BRAF/MEK inhibitor combination, especially if not appropriate for checkpoint immunotherapy (First-line or Second-line)

Reference: NCCN Guidelines® - NCCN-Melanoma [Version 1.2017]

 **cetuximab**

Cancer type: Colorectal Cancer

Variant class: BRAF V600E mutation

## Summary:

NCCN Guidelines® do not contain a recommendation regarding BRAF V600 mutations and cetuximab in Colon Cancer, but include the following evidentiary statements:

- "Evidence increasingly suggest that BRAF V600E mutations makes response to panitumumab or cetuximab highly unlikely, as a single agent, or in combination with cytotoxic chemotherapy"

Reference: NCCN Guidelines® - NCCN-Colon Cancer [Version 1.2017]

**BRAF p.(V600E) c.1799T>A (continued)****⊘ cetuximab**

Cancer type: Colorectal Cancer

Variant class: BRAF V600E mutation

**Summary:**

NCCN Guidelines® do not contain a recommendation regarding BRAF V600 mutations and cetuximab in Rectal Cancer, but include the following evidentiary statements:

- "Evidence increasingly suggest that BRAF V600E mutations makes response to panitumumab or cetuximab highly unlikely, as a single agent, or in combination with cytotoxic chemotherapy"

**Reference:** NCCN Guidelines® - NCCN-Rectal Cancer [Version 1.2017]**⊘ panitumumab**

Cancer type: Colorectal Cancer

Variant class: BRAF V600E mutation

**Summary:**

NCCN Guidelines® do not contain a recommendation regarding BRAF V600 mutations and panitumumab in Colon Cancer, but include the following evidentiary statements:

- "Evidence increasingly suggest that BRAF V600E mutations makes response to panitumumab or cetuximab highly unlikely, as a single agent, or in combination with cytotoxic chemotherapy"

**Reference:** NCCN Guidelines® - NCCN-Colon Cancer [Version 1.2017]**⊘ panitumumab**

Cancer type: Colorectal Cancer

Variant class: BRAF V600E mutation

**Summary:**

NCCN Guidelines® do not contain a recommendation regarding BRAF V600 mutations and panitumumab in Rectal Cancer, but include the following evidentiary statements:

- "Evidence increasingly suggest that BRAF V600E mutations makes response to panitumumab or cetuximab highly unlikely, as a single agent, or in combination with cytotoxic chemotherapy"

**Reference:** NCCN Guidelines® - NCCN-Rectal Cancer [Version 1.2017]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Current Global Clinical Trials Information

Global Clinical Trials information is current as of 2016-12-01. For the most up-to-date information regarding a particular trial, search [www.clinicaltrials.gov](http://www.clinicaltrials.gov) by NCT ID or search local clinical trials authority website by local identifier listed in 'Other identifiers'.

### BRAF p.(V600E) c.1799T>A

#### NCT02034110

A Phase II, Open-label, Study in Subjects with BRAF V600E-Mutated Rare Cancers with Several Histologies to Investigate the Clinical Efficacy and Safety of the Combination Therapy of Dabrafenib and Trametinib

**Cancer type:** Glioblastoma

**Variant class:** BRAF V600E mutation

**Other identifiers:** 117019, 14-126, 14-C-0131, 2013-0918, BRF117019, CSET 2108, DRKS00007132, EudraCT Number: 2013-001705-87, NCI-14-C-0131, NL46478.031.14, P121120, RECF2277, ROAR, ROAR BRF117019, TrialTroveID-200563

**Population segments:** Anaplastic, Metastatic, Second line or greater/Refractory/Relapsed, Stage III, Stage IV, Unresectable

**Phase:** II

**Therapy:** dabrafenib + trametinib

**Locations:** Austria, Belgium, Canada, Denmark, France, Germany, Italy, Netherlands, Norway, Republic of Korea, Spain, Sweden, United States

**US States:** CA, MA, MD, NY, TX

**US Contact:** US GSK Clinical Trials Call Center [877-379-3718; [GSKClinicalSupportHD@gsk.com](mailto:GSKClinicalSupportHD@gsk.com)]

#### NCT01748149

PNOC-002: Safety, Phase 0, and Pilot Efficacy Study of Vemurafenib, an Oral Inhibitor of BRAFV600E, in Children and Young Adults With Recurrent/Refractory BRAFV600E- or BRAF Ins T Mutant Brain Tumors

**Cancer type:** Glioblastoma

**Variant class:** BRAF V600E mutation

**Other identifiers:** 076373, 092093, 120819, 120819 (PNOC 002), CC#120819, NCI-2014-00387, PNOC 002, TrialTroveID-179131

**Population segments:** (N/A), Neoadjuvant, Pediatric or Adolescent, Second line or greater/Refractory/Relapsed

**Phase:** I

**Therapy:** vemurafenib

**Location:** United States

**US States:** CA, DC, IL, MA, MO, OH, OR, PA, TN, UT, WA

**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.

#### ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.



**BRAF p.(V600E) c.1799T>A (continued)****NCT02693535**

Targeted Agent and Profiling Utilization Registry (TAPUR) Study

**Cancer type:** Unspecified Solid Tumor**Variant class:** BRAF V600E mutation**Other identifiers:** Pro00014171, TAPUR, TrialTroveID-273941**Population segments:** (N/A), Aggressive, Diffuse large B-cell lymphoma (DLBCL), Extranodal marginal zone B-cell lymphoma (MALT), Follicular lymphoma (FL), Indolent, Lymphoblastic lymphoma (LBL), Mantle cell lymphoma (MCL), Other subtype, Second line or greater/Refractory/Relapsed, Small lymphocytic lymphoma (SLL), Stage III, Stage IV, Waldenstrom's macroglobulinemia (WM)**Phase:** II**Therapy:** cobimetinib + vemurafenib**Location:** United States**US States:** IL, MI, NC, PA, SD**US Contact:** Pam Mangat [[pam.mangat@asco.org](mailto:pam.mangat@asco.org)]**NCT02465060**

Molecular Analysis for Therapy Choice (MATCH)

**Cancer type:** Unspecified Solid Tumor**Variant class:** BRAF V600E mutation**Other identifiers:** 15-7002, CTSU/EAY131, EAY131, EAY131-A, EAY131-B, EAY131-E, EAY131-F, EAY131-G, EAY131-H, EAY131-I, EAY131-MATCH, EAY131-N, EAY131-P, EAY131-Q, EAY131-R, EAY131-S1, EAY131-S2, EAY131-T, EAY131-U, EAY131-V, EAY131-X, ECOGEAY131-M, MATCH, NCI-2015-00054, NCI-MATCH, TrialTroveID-258747**Population segments:** (N/A), Aggressive, ALK, Classical, EGFR, HER2 positive, Indolent, Nodular lymphocyte-predominant, Second line or greater/Refractory/Relapsed, Stage III, Stage IV**Phase:** II**Therapy:** dabrafenib + trametinib**Location:** United States**US States:** AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, WA, WI, WV, WY**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT02091141**

My Pathway: An Open Label Phase IIa Study Evaluating Trastuzumab/Pertuzumab, Erlotinib, Vemurafenib/Cobimetinib, and Vismodegib in Patients Who Have Advanced Solid Tumors With Mutations or Gene Expression Abnormalities Predictive of Response to One of These Agents

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF activating mutation

**Other identifiers:** 1403013519, 2014-0459, AAAN9701, J1480, ML28897, ML28897/PRO 02, ML28897PRO/02, My Pathway, NCI-2014-01811, TrialTroveID-205033

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Exclusion criteria variant class:** RAS mutation

**Phase:** II

**Therapy:** cobimetinib + vemurafenib

**Location:** United States

**US States:** AR, AZ, CA, CO, FL, GA, IL, MD, MN, NC, ND, NY, OH, OK, OR, PA, SD, TN, TX, VA, WA

**US Contact:** Hoffmann-La Roche, Study Director [888-662-6728; [global.roche.genentechtrials@roche.com](mailto:global.roche.genentechtrials@roche.com)]

**NCT02747537**

Phase II Clinical Trial Treating Relapsed/Recurrent/Refractory Pediatric Solid Tumors With the Genomically-Targeted Agent Sorafenib in Combination With Irinotecan

**Cancer type:** Unspecified Solid Tumor

**Variant class:** RAF mutation

**Other identifiers:** 201605006, NCI-2016-00680, TrialTroveID-277232

**Population segments:** (N/A), Second line or greater/Refractory/Relapsed

**Phase:** II

**Therapy:** sorafenib + chemotherapy

**Location:** United States

**US State:** MO

**US Contact:** Dr. Robert Hayashi [314-454-6018; [hayashi\\_r@kids.wustl.edu](mailto:hayashi_r@kids.wustl.edu)]

**NCT01877811**

An Open-Label, Phase 1/1b, Single-Agent Study of RXDX-105 in Patients With Advanced Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600E mutation

**Other identifiers:** 15-270, 201307042, C32496/1105, NCI-2013-01795, RXDX-105-01, TrialTroveID-167849, UCI-15-73

**Population segments:** KRAS, Second line or greater/Refractory/Relapsed, Squamous Cell, Stage III, Stage IV

**Phase:** I/II

**Therapy:** AB-024

**Location:** United States

**US States:** CA, DC, FL, GA, MA, MI, MO, NY, PA, TX, WA

**US Contact:** Rupal A. Patel [858-332-0774; [rpatel@ignyta.com](mailto:rpatel@ignyta.com)]

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT01970956**

Phase I/II Study of Dabrafenib, Trametinib, and Navitoclax in BRAF Mutant Melanoma and Other Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600E mutation

**Other identifiers:** 091306, 13-424, 2014-0020, 9466, DFCI Protocol ID:13-424, NCI 9466, NCI-2013-02103, TrialTroveID-196241

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I/II

**Therapies:** dabrafenib + navitoclax + trametinib, dabrafenib + trametinib

**Locations:** Canada, United States

**US States:** CA, CT, MA, MD, NC, NJ, NY, OH, PA, TX

**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.

**NCT02961283**

A Phase I, Open-label, Dose-finding and Cohort Expansion Study of ASN003 in Subjects With Advanced Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600 mutation

**Other identifiers:** ASN003-101, TrialTroveID-290434

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I/II

**Therapy:** ASN-003

**Location:** United States

**US State:** TX

**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.

**NCT01787500**

A Phase I Trial of Vemurafenib in Combination With Cetuximab and Irinotecan in Patients with BRAF V600 Mutant Advanced Solid Malignancies

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600 mutation

**Other identifiers:** 2012-0748, NCI-2013-00541, TrialTroveID-181751

**Population segments:** Line of therapy N/A, Stage III, Stage IV

**Other inclusion criteria:** KRAS wild type

**Exclusion criteria variant classes:** KRAS G12 mutation, KRAS G13 mutation

**Phase:** I/II

**Therapy:** cetuximab + vemurafenib + chemotherapy

**Location:** United States

**US State:** TX

**US Contact:** Dr. David S. Hong [713-593-1930]

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT02437227**

A Phase 1, First in Man, Dual Centre, Open-label Dose Escalation Study With Expansion to Evaluate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of CCT3833 (BAL3833), a panRAF Inhibitor, Given Orally in Patients With Advanced Solid Tumours, Including Metastatic Melanoma

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** 4232, PanRAF, TrialTroveID-257046

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I/II

**Therapy:** BAL-3833

**Location:** United Kingdom

**No NCT ID - see other identifier(s)**

A Phase I/II Study of LNP3794 in Patients with Advanced Solid Tumors having RAS/ BRAF Mutations

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifier:** TrialTroveID-250171

**Population segments:** Line of therapy N/A, Stage III, Stage IV

**Phase:** I/II

**Therapy:** LNP3794

**Location:** United Kingdom

**NCT02869295**

A Phase I/II, Open-Label, Multicenter, Dose Escalation and Dose Expansion Study of NKTR-214 in Subjects with Locally Advanced or Metastatic Solid Tumor Malignancies

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** 15-214-01, 2015-0573, EudraCT Number: 2016-001134-10, TrialTroveID-258750

**Population segments:** Adenocarcinoma, First line, HER2 negative, Second line or greater/Refractory/Relapsed, Squamous Cell, Stage III, Stage IV, Triple receptor negative

**Phase:** I/II

**Therapy:** NKTR-214

**Location:** United States

**US States:** CT, OR, TX

**US Contact:** Nektar Recruitment [855-482-8676; [StudyInquiry@nektar.com](mailto:StudyInquiry@nektar.com)]

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT02428712**

A Phase I/IIa Study to Assess the Safety, Pharmacokinetics, and Pharmacodynamics of PLX8394 in Patients With Advanced, Unresectable Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** 2015-0158, NCI-2015-00720, PLX120-03, TrialTroveID-256645

**Population segments:** Anaplastic, Papillary, Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I/II

**Therapy:** PLX-8394

**Location:** United States

**US States:** AZ, MI, TX, UT

**US Contact:** Terry Cho [[tcho@plexikon.com](mailto:tcho@plexikon.com)]

**NCT02097225**

Phase I Study of AT13387 in Combination With Dabrafenib and Trametinib in Patients With BRAF-Mutant Melanoma and Other Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600E mutation

**Other identifiers:** 14-186, 9557, CTEP#9557, NCI 9557, NCI-2014-00615, TrialTroveID-205735

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Exclusion criteria variant class:** RAS mutation

**Phase:** I

**Therapy:** dabrafenib + onalespib + trametinib

**Location:** United States

**US State:** MA

**US Contact:** Massachusetts General Hospital Cancer Trials Call Center [877-789-6100]

**NCT01767623**

An Open Label, Phase I Study to Evaluate the Impact of Severe Hepatic Impairment on the Pharmacokinetics and Safety of Vemurafenib in BRAF V600 mutation Positive Cancer Patients

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600 mutation

**Other identifiers:** 1803-7, EudraCT Number: 2012-003820-18, G028053, IRAS ID: 120756, PER-052-13, TrialTroveID-152167

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** vemurafenib

**Locations:** Australia, Israel, Turkey

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT02441465**

A Phase I, Open-Label, Absolute Bioavailability Study of Vemurafenib in Patients With BRAF<sup>V600</sup> Mutation-Positive Malignancies

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600 mutation

**Other identifiers:** EudraCT Number: 2013-004144-34, GO28395, TrialTroveID-257287

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** vemurafenib

**Location:** Hungary

**NCT02608034**

A Two-Part, Phase I, Open-Label, Multicenter, Two-Period, One-Sequence Study To Investigate The Effect Of Itraconazole And Rifampin On The PK Of Vemurafenib At Steady State

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF V600 mutation

**Other identifiers:** GO29475, TrialTroveID-268207

**Population segments:** First line, Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapies:** vemurafenib + itraconazole, vemurafenib + rifampin

**Locations:** Republic of Korea, United States

**US States:** KS, TX

**US Contact:** Study ID Number: GO29475 [888-662-6728; [global.roche.genentechtrials@roche.com](mailto:global.roche.genentechtrials@roche.com)]

**No NCT ID - see other identifier(s)**

A Phase Ib, Multi-Center Study to Evaluate the Efficacy of BGB-283 in Patients with Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifier:** TrialTroveID-261285

**Population segments:** (N/A), Line of therapy N/A

**Phase:** I

**Therapy:** BGB-283

**Locations:** Australia, New Zealand

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT01781429**

Phase I Dose-Escalation, Safety, Pharmacokinetic and Pharmacodynamic Study of BVD-523 in Patients With Advanced Malignancies

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** 13-010, 13-254, 2013-0574, AAAP2107, BVD-523-01, NCI-2013-01663, REFMAL 286 IST, TrialTroveID-180584, VICCPHI1375

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** BVD-523

**Location:** United States

**US States:** CA, CT, FL, MA, MO, NY, TN, TX

**US Contact:** BioMed Valley Discoveries Inc [816-960-6600; [ERK@biomed-valley.com](mailto:ERK@biomed-valley.com)]

**NCT01531361**

A Phase I Trial of Sorafenib (CRAF, BRAF, KIT, RET, VEGFR, PDGFR Inhibitor) or Crizotinib (MET, ALK, ROS1 Inhibitor) in Combination With Vemurafenib (BRAF Inhibitor) in Patients With Advanced Malignancies

**Cancer type:** Unspecified Cancer

**Variant class:** BRAF mutation

**Other identifiers:** 2011-1183, NCI-2012-00217, TrialTroveID-162168

**Population segments:** Adenocarcinoma, Papillary, Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapies:** crizotinib + vemurafenib, sorafenib + vemurafenib

**Location:** United States

**US State:** TX

**US Contact:** MD Anderson Cancer Center [855-873-4321]

**NCT01231594**

A Rollover Study to provide Continued Treatment with GSK2118436 to Subjects with BRAF Mutation-Positive Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** 114144, 12-016, 2010-0801, 44629, BRFF114144, Eudra CT Number: 2011-000883-83, F14020, HCI 44629, IRAS ID 95276, NCI-2011-02757, OSU-11024, REFMAL 223, TrialTroveID-137250, VICCMEL1209

**Population segments:** Line of therapy N/A, Stage IV

**Phase:** I

**Therapies:** dabrafenib, dabrafenib + trametinib

**Locations:** Australia, Italy, Spain, United Kingdom, United States

**US States:** AZ, CA, FL, MI, NY, OH, OK, PA, SC, TN, TX, UT, WA

**US Contact:** US GSK Clinical Call Center [877-379-3718; [GSKClinicalSupportHD@gsk.com](mailto:GSKClinicalSupportHD@gsk.com)]

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

**BRAF p.(V600E) c.1799T>A (continued)****NCT02407509**

A Phase I Trial of RO5126766 (a Dual RAF/MEK Inhibitor) Exploring Intermittent, Oral Dosing Regimens in Patients With Solid Tumours or Multiple Myeloma

**Cancer type:** Unspecified Solid Tumor

**Variant class:** BRAF mutation

**Other identifiers:** CCR3808, DDU RAF/MEK, EudraCT Number: 2012-001040-22, TrialTroveID-206542

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** RO-5126766

**Location:** United Kingdom

**NCT02015117**

A Phase I Study of Trametinib in Combination With Radiation Therapy for Brain Metastases

**Cancer type:** Unspecified Cancer

**Variant class:** BRAF mutation

**Other identifiers:** 2013C0115, 9458, NCI-2013-02343, OSU 13197, OSU-13197, TrialTroveID-199440

**Population segments:** Adjuvant, CNS mets, Stage IV

**Phase:** I

**Therapies:** trametinib + radiation therapy, trametinib + surgical intervention

**Location:** United States

**US States:** IL, OH

**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.

**NCT02857270**

A Phase I Study of an ERK1/2 Inhibitor (LY3214996) Administered Alone or in Combination With Other Agents in Advanced Cancer

**Cancer type:** Unspecified Cancer

**Variant class:** RAS/RAF/MEK/ERK pathway

**Other identifiers:** 16419, EudraCT Number: 2016-001907-21, I8S-MC-JUAB, TrialTroveID-280743

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapies:** abemaciclib + LY3214996, LY3214996, LY3214996 + chemotherapy, LY3214996 + midazolam

**Location:** United States

**US State:** TN

**US Contact:** Eli Lilly and Company [877-285-4559]

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.



**BRAF p.(V600E) c.1799T>A (continued)****NCT02243917**

A Phase 1, Open-Label, Dose Escalation and Dose Expansion Study Evaluating the Safety, Pharmacokinetics, Pharmacodynamics, and Clinical Effects of Orally Administered CB-5083 in Subjects With Advanced Solid Tumors

**Cancer type:** Unspecified Solid Tumor

**Variant class:** RAS/RAF/MEK/ERK pathway

**Other identifiers:** 149511, CLC-101, TrialTroveID-216163

**Population segments:** Second line or greater/Refractory/Relapsed, Stage II, Stage III, Stage IV

**Phase:** I

**Therapy:** CB-5083

**Location:** United States

**US States:** AZ, CA, CO, GA, PA

**US Contact:** Multiple contacts: See [www.clinicaltrials.gov](http://www.clinicaltrials.gov) for complete list of contacts.

**NCT02711345**

A Phase I Dose Finding Study of Oral LTT462 in Adult Patients With Advanced Solid Tumors Harboring MAPK Pathway Alterations

**Cancer type:** Unspecified Solid Tumor

**Variant class:** RAS/RAF/MEK/ERK pathway

**Other identifiers:** CLTT462X2101, EudraCT number: 2015-003614-24, NCI-2016-00539, TrialTroveID-275107

**Population segments:** First line, KRAS, Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** LTT-462

**Locations:** Germany, Japan, Singapore, Spain, Switzerland, United States

**US States:** NY, TX

**US Contact:** Novartis Pharmaceuticals [888-669-6682]

**NCT02607813**

A Phase I Dose Finding Study of Oral LXH254 in Adult Patients With Advanced Solid Tumors Harboring MAPK Pathway Alterations

**Cancer type:** Unspecified Solid Tumor

**Variant class:** RAS/RAF/MEK/ERK pathway

**Other identifiers:** 2015-0913, CLXH254X2101, EudraCT Number: 2015-003421-33, NCI-2015-02280, REec-2016-2132, TrialTroveID-268216

**Population segments:** Second line or greater/Refractory/Relapsed, Stage III, Stage IV

**Phase:** I

**Therapy:** LXH254

**Locations:** Canada, Germany, Japan, Netherlands, Republic of Korea, Spain, Switzerland, United States

**US States:** NY, TX

**US Contact:** Novartis Pharmaceuticals [888-669-6682]

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

Other mutations, copy number variations, or fusions that were detected but not classified by the Oncofocus Test as actionable by a known therapeutic targeted agent are not listed in the results section of this report.

## Appendix: Evidence Summary by Variant Class

A variant class hierarchy was created to summarize gene variants with associated clinical evidence. Evidence items refers to citations across the different global data sources.

### BRAF p.(V600E) c.1799T>A

Variant Class	Evidence Items
RAS/RAF/MEK/ERK pathway	4
↳ RAF aberration	0
↳ RAF mutation	1
↳ BRAF mutation	10
↳ BRAF exon 15 mutation	0
↳ BRAF V600 mutation	26
↳ BRAF V600E mutation	18
↳ BRAF activating mutation	1
↳ BRAF V600 mutation	26
↳ BRAF V600E mutation	18

ONC17-:

[www.oncologica.com](http://www.oncologica.com)

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## Appendix: Variant Details

### DNA Sequence Variants

Gene	Amino Acid Change	Coding	Variant ID	Allele Frequency Transcript	Variant Effect	Gene Class	Variant Class
BRAF	p.(V600E)	c.1799T>A	COSM476	33.13% NM_004333.4	missense	Gain of Function	Hotspot

**ONC17-:**[www.oncologica.com](http://www.oncologica.com)

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