

Variant: *NM\_024675.4(PALB2):c.7G>T (p.Glu3Ter)*

Version: 2.0

[CA10583388](#)

[241571 \(ClinVar\)](#)

**Gene:** PALB2 ([HGNC:79728](#))

**Condition:** PALB2-related cancer predisposition ([MONDO:0700272](#))

**Inheritance Mode:** Autosomal dominant inheritance

**UUID:** fe8de8d5-9fd0-4d86-9572-d14485246aff

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### *HGVS expressions*

#### **NM\_024675.4:c.7G>T**

NM\_024675.4(PALB2):c.7G>T (p.Glu3Ter)

NC\_000016.10:g.23641151C>A

CM000678.2:g.23641151C>A

NC\_000016.9:g.23652472C>A

CM000678.1:g.23652472C>A

NC\_000016.8:g.23559973C>A

NG\_007406.1:g.5207G>T

ENST00000561514.3:c.-846G>T

ENST00000565038.2:c.7G>T

ENST00000566069.6:c.7G>T

ENST00000697377.2:c.-233G>T

ENST00000697379.2:c.-139G>T

ENST00000561514.2:c.-1737G>T

ENST00000697374.1:c.-1328G>T

ENST00000697376.1:c.-1049G>T

ENST00000697377.1:c.-1124G>T

ENST00000697379.1:c.-1030G>T

ENST00000697382.1:c.-1788G>T

ENST00000697383.1:c.7G>T

ENST00000697384.1:n.161G>T

ENST00000261584.9:c.7G>T

ENST00000261584.8:c.7G>T

ENST00000567003.1:n.151G>T

ENST00000568219.5:c.-862G>T

NM\_024675.3:c.7G>T

**Pathogenic**

**Met criteria codes** **3**

**PVS1** **PM2\_Supporting**

**PM5\_Supporting**

**Not Met criteria codes** **1**

**BP7**

**Evidence Links** **0**

**Expert Panel**

[Hereditary Breast, Ovarian and Pancreatic Cancer VCEP](#)

**Criteria Specification Information**







**Criteria Specification:** *ClinGen Hereditary Breast, Ovarian and Pancreatic Cancer Expert Panel Specifications*

Evidence submitted by expert panel

**Hereditary Breast, Ovarian and Pancreatic Cancer VCEP**

The c.7G>T (p.Glu3Ter) variant in PALB2 is a nonsense variant predicted to cause a premature stop codon in biologically-relevant-exon 1 leading to nonsense mediated decay in a gene in which loss-of-function is an established disease mechanism. This alteration results in a termination codon upstream of the most C-terminus pathogenic alteration (PALB2 p.Tyr1183\*) as classified by the HBOP VCEP and is expected to be more deleterious. This variant is absent from gnomAD v2.1.1. In summary, this variant meets criteria to be classified as pathogenic for autosomal dominant hereditary breast and pancreatic cancer and autosomal recessive FANCN based on the ACMG/AMP criteria applied as specified by the HBOP VCEP. (PVS1, PM5\_supporting, PM2\_supporting)

**Met criteria codes**

|                       |   |  |
|-----------------------|---|--|
| <b>PVS1</b>           |       | The c.7G>T (p.Glu3Ter) variant in PALB2 is a nonsense variant predicted to cause a premature stop codon in biologically-relevant-exon 1/13 leading to nonsense mediated decay in a gene in which loss-of-function is an established disease mechanism. |
| <b>PM2_Supporting</b> |     | This variant is absent from gnomAD v2.1.1 (PM2_Supporting).  |
| <b>PM5_Supporting</b> |   | This alteration results in a termination codon upstream of the most C-terminus pathogenic alteration (PALB2 p.Tyr1183*) as classified by the ClinGen HBOP Variant Curation Expert Panel, and is expected to be more deleterious (PM5_Supporting).      |

**Not Met criteria codes**

|            |   |                                   |
|------------|---|-----------------------------------|
| <b>BP7</b> |   | No impact on splicing by SpliceAI |
|------------|---|-----------------------------------|

Curation History [↗](#)

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