

Variant: *NM_030662.3(MAP2K2):c.619G>A (p.Glu207Lys)*

Version: 1.0

[CA180944](#)

[40813 \(ClinVar\)](#)

Gene: MAP2K2 ([HGNC:5605](#))

Condition: cardiofaciocutaneous syndrome ([MONDO:0015280](#))

Inheritance Mode: Autosomal dominant inheritance

UID: 93491eab-4df5-480a-a62b-7022611f18ee

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HGVS expressions

NM_030662.3:c.619G>A

NM_030662.3(MAP2K2):c.619G>A (p.Glu207Lys)

NC_000019.10:g.4101105C>T

CM000681.2:g.4101105C>T

NC_000019.9:g.4101103C>T

CM000681.1:g.4101103C>T

NC_000019.8:g.4052103C>T

NG_007996.1:g.28024G>A

ENST00000394867.9:n.1058G>A

ENST00000687128.1:n.1058G>A

ENST00000689792.1:n.559G>A

ENST00000262948.10:c.619G>A

ENST00000262948.9:c.619G>A

ENST00000394867.8:c.328G>A

ENST00000593364.5:n.566G>A

ENST00000597008.5:n.220G>A

ENST00000597263.5:n.83G>A

ENST00000599345.1:n.889G>A

ENST00000601786.5:n.920G>A

ENST00000602167.5:n.339G>A

NM_030662.4:c.619G>A

Pathogenic

Met criteria codes **5**

PS2 **PS4** **PP2** **PM6** **PM2**

Evidence Links **0**

Expert Panel

[RASopathy VCEP](#)

Criteria Specification Information

[Criteria Specifications for this VCEP](#)

Evidence submitted by expert panel

RASopathy VCEP

The c.619G>A (p.Glu207Lys) variant in MAP2K2 was absent from large population studies (PM2; gnomAD.broadinstitute.org). It has been identified in 6 individuals with clinical features of a RASopathy (PS4; SCV000204213.4, SCV000207959.10, SCV000815593.1, Otto von Guericke University Magdeburg internal data). One of these cases was a confirmed de novo occurrence and another was an unconfirmed de novo occurrence (PS2; PM6; SCV000815593.1, Otto von Guericke University Magdeburg internal data). Additionally, the c.619G>A (p.Glu207Lys) is located in MAP2K2, which has been defined by the ClinGen RASopathy Expert Panel as a gene with a low rate of benign missense variants and pathogenic missense variants are common (PP2; PMID: 29493581). In summary, this variant meets criteria to be classified as pathogenic for RASopathies in an autosomal dominant manner. Rasopathy-specific ACMG/AMP criteria applied (PMID:29493581): PS4, PS2, PM6, PM2, PP2.

Met criteria codes

PS2	✓	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS4	✓	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP2	✓	The variant is located in the MAP2K2 gene, which has been defined by the ClinGen RASopathy Expert Panel as a gene with a low rate of benign missense variants and pathogenic missense variants are common (PP2; PMID: 29493581).
PM6	✓	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2	✓	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

Curation History [↗](#)



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