

# Temporalis muscle

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## 1 OIAN

Muscle	Origin	Insertion	Nerve	Action
Temporalis muscle	Temporal fossa (inferior temporal line)	Coronoid process of mandible (apex and medial surface)	Mandibular ( $V_3$ ) division of CN V via deep temporal nn	<b>Vertical fibers:</b> Elevate mandible; <b>Horizontal Fibers:</b> Retract (retrude) mandible; <b>Unilateral Fibers:</b> Lateral movement of mandible (chewing)

## 2 Origin

Temporal fossa (inferior temporal line)<sup>1</sup>

## 3 Insertion

Coronoid process of mandible (apex and medial surface)<sup>1</sup>

## 4 Innervation

Mandibular ( $V_3$ ) division of CN V via deep temporal nn<sup>1</sup>

## 5 Action

**Vertical fibers:** Elevate mandible; **Horizontal Fibers:** Retract (retrude) mandible; **Unilateral Fibers:** Lateral movement of mandible (chewing)<sup>1</sup>

## Clinical Significance

1. Gilroy AM, MacPherson BR, Wikenheiser JC, Voll MM, Wesker K, Schünke M, eds. *Atlas of Anatomy*. 4th ed. Thieme; 2020.