

# Mothers against decapentaplegic homolog 3

Mothers against decapentaplegic homolog 3 also known as SMAD family member 3 or SMAD3 is a protein that in humans is encoded by the SMAD3 gene.

SMAD3 is a member of the SMAD family of proteins. It acts as a mediator of the signals initiated by the [transforming growth factor beta](#) (TGF- $\beta$ ) superfamily of [cytokines](#), which regulate cell proliferation, differentiation and death.

Based on its essential role in TGF beta signaling pathway, SMAD3 has been related with tumor growth in cancer development.

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