

Infographic: What are TALENs? Another important gene-editing tool to boost sustainable farming

What are TALENs?

Transcription **A**ctivator-**L**ike **E**ffector **N**ucleases

TALENs are used by scientists to help improve food crops

TALs (Transcription Activator-Like Effectors) are natural proteins made and used by harmful plant bacteria to control plant genes during infection



Scientists have used the discovery of TALs to:

modify TALs into TALENs

TAL**Es**

design TALENs to target selected, specific DNA sequences



make a cut in the targeted DNA sequence



initiate the cell's own repair mechanisms to remove or introduce new DNA at the target site



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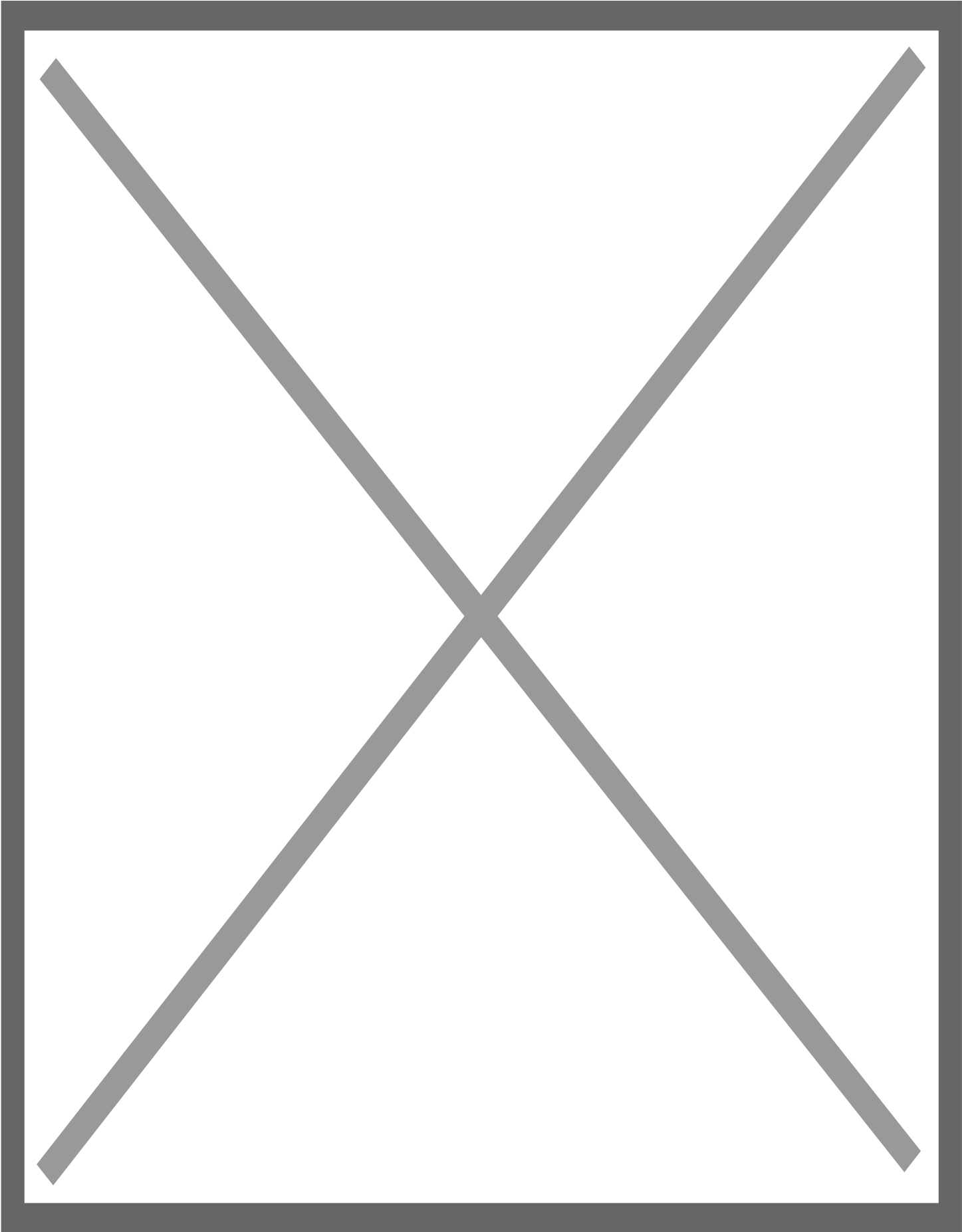


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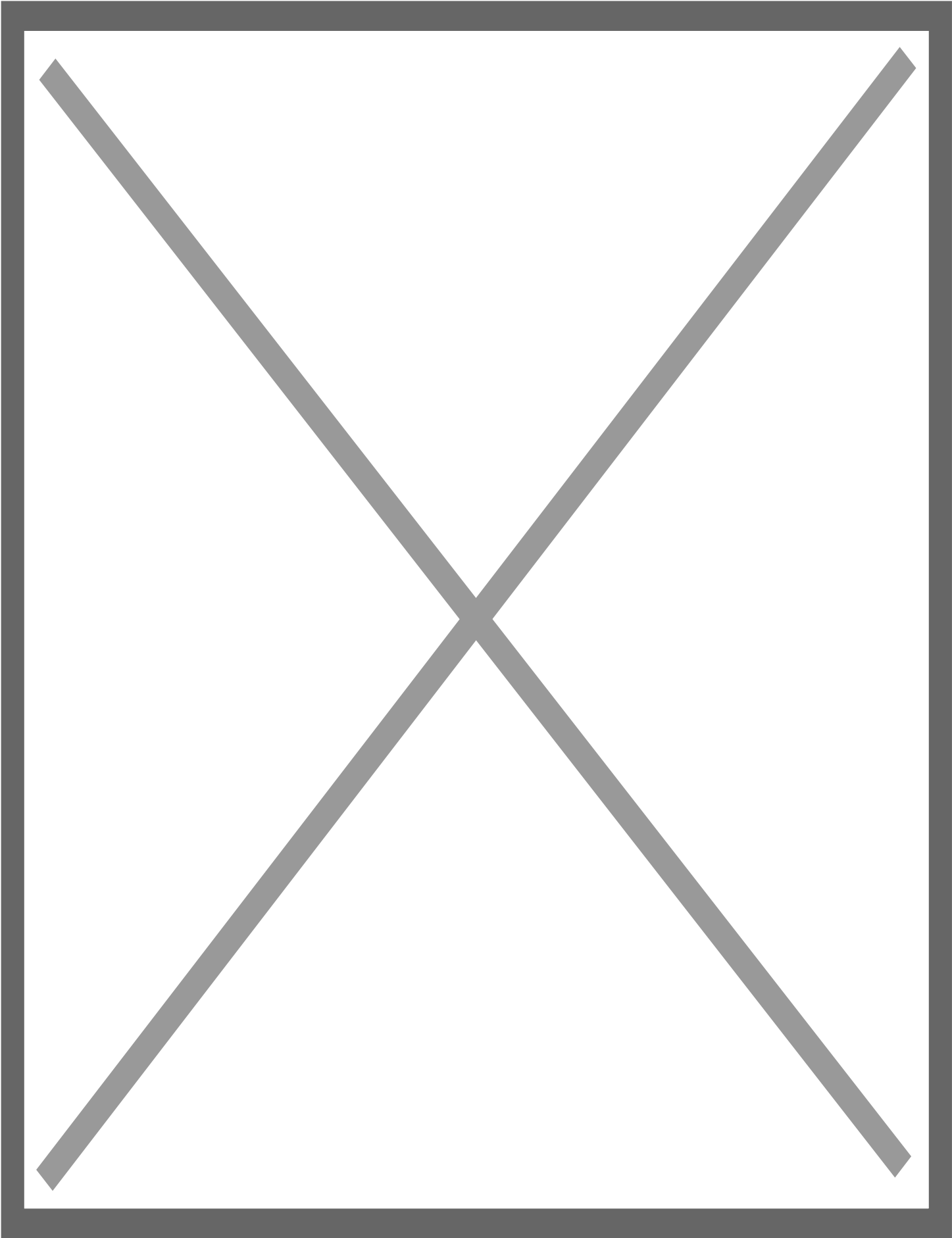
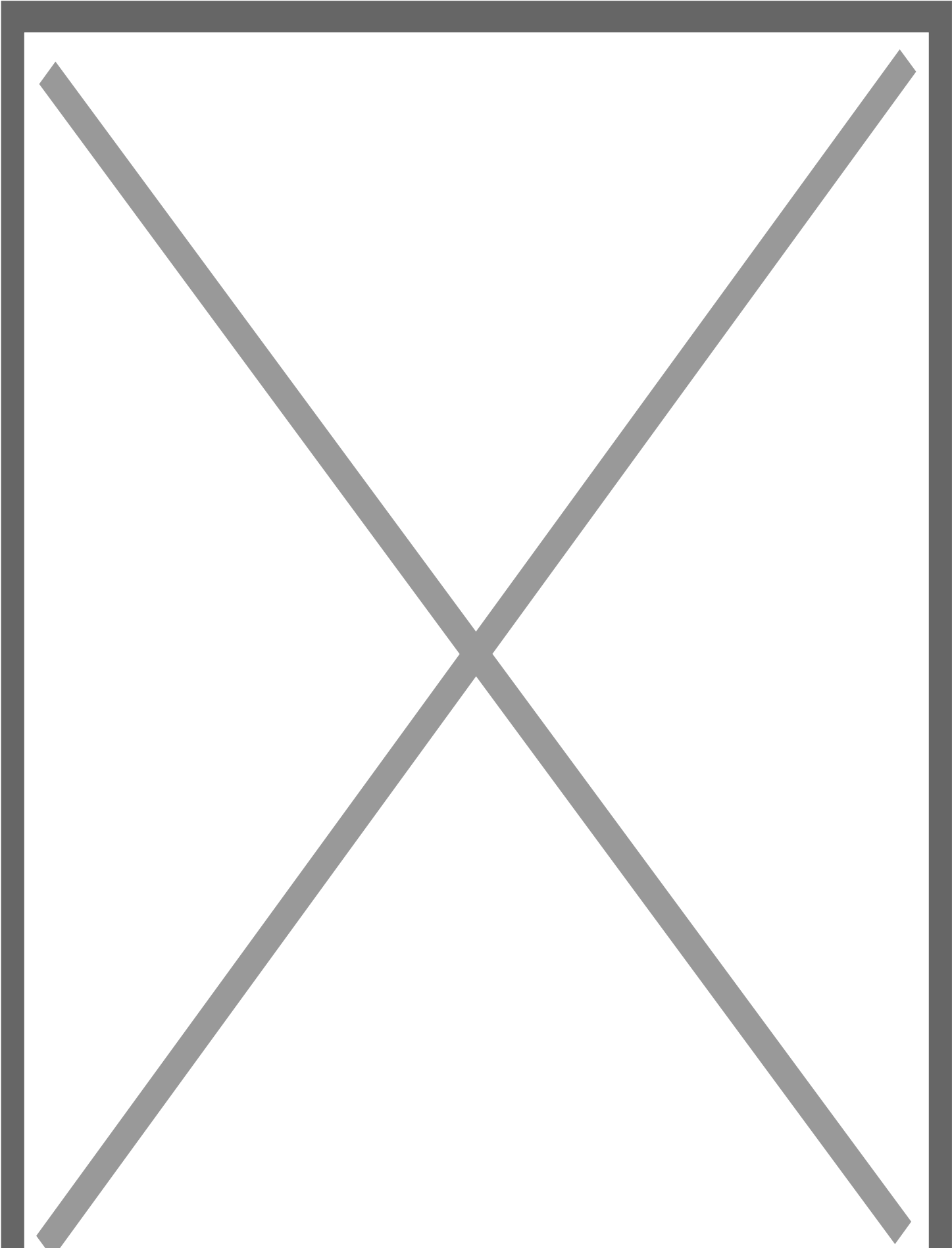


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