# Crystal structure of the YjeE protein from Haemophilus influenzae: a putative Atpase involved in cell wall synthesis.

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<td>Abstract</td>
<td>A hypothetical protein encoded by the gene YjeE of Haemophilus influenzae was selected as part of a structural genomics project. The crystal structure of the YjeE protein was determined to 1.9 Å resolution. The structure reveals a dimer of two identical subunits, each consisting of a transmembrane domain and a peripheral membrane domain. The peripheral membrane domain contains a putative ATPase domain that is homologous to the ATP synthase domain of other ATPases. The structure suggests a &quot;switch&quot; triggered by ATP hydrolysis. The phylogenetic pattern of YjeE suggests its involvement in cell wall biosynthesis.</td>
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