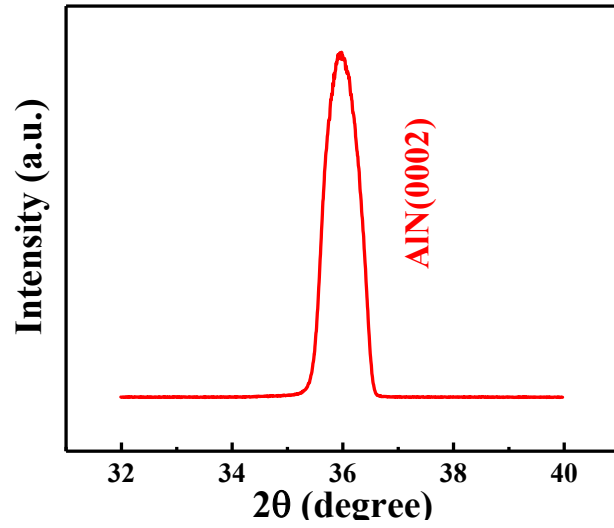


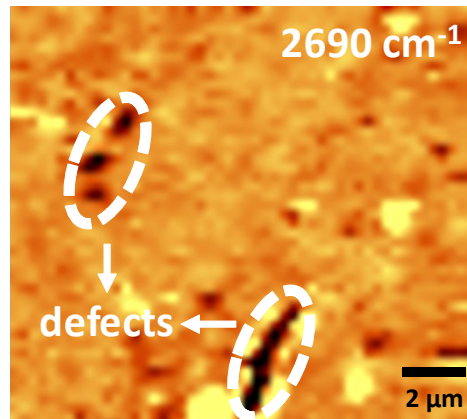
## Supporting Information

# Growth mechanism on graphene-regulated high-quality epitaxy of flexible AlN film

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**Figure S1.**  $2\theta$ - $\omega$  scanning curve of AlN with growth time of 50 min.



**Figure S2.** Raman mapping of 2D peak ( $2690\text{ cm}^{-1}$ ) of graphene on sample after epitaxial growth.