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Purification of Two Transcription Factors Required for Initiation by Mammalian RNA Polymerase II*

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Accurate initiation by mammalian RNA polymerase II in vitro is a complex reaction involving multiple factors and is a major regulatory step in many biological phenomena. Several laboratories, including ours, have identified proteins which are repuired for proper transcription initiation. Recently, one of these factors, FC has been purified to an equimolar complex of an 80 KDa and a 30 KDa peptide and shown to associate with purified RNA polymerase II.

Here we report the identification of two transcription factors, FA and FE, whose activity is associated with 32—33 kDa single peptides. Both have been purified to near homogeneity from HeLa cell nuclear extracts. FA functions in a reaction kinetically similar to that of FC, while FE functions in a more rapid subsequent step of transcription initiation.

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