Abstract

It is well known that chromatin posttranslational state, transcription and splicing influence each other. Nevertheless, the details of this coupling are not fully understood. In *S. cerevisiae*, it is possible to induce conditions, in which splicing is uncoupled from transcription. Such situation occurred in cells expressing a mutated splicing factor Prp45, whose human homolog has been proved to participate in transcription regulation and also in splicing reactions.

Based on previously indicated interactions in high throughput two-hybrid screens, we have been looking for physical links between Prp45 and proteins involved in chromatin posttranslational modifications. Finding of such a link would provide insight into the relationships of gene expression processes. Using coimmunoprecipitation and affinity purification, we were unable to detect physical interactions between Prp45 and our candidate chromatin regulators. Alternative approaches are discussed.

Using the precipitation techniques, we mapped the interaction of Prp46 with truncated variants of Prp45. This observation contributes to our knowledge of protein-protein interactions within the spliceosome.