

Resource Summary Report

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Plant Chromatin Immunoprecipitation

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Proper Citation

Laura Poza-Viejo, Ivan del Olmo, Pedro Crevillén 2019. Plant Chromatin Immunoprecipitation. protocols.io dx.doi.org/10.17504/protocols.io.zmff43n

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.zmff43n>

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Summary: Chromatin Immunoprecipitation (ChIP) is a crucial technique to study chromatin regulation, epigenetic phenomena and transcription factor DNA-binding in vivo. This technique is widely used in model plant systems like Arabidopsis but reliability in other plant systems is challenging. We adapted our well-established Arabidopsis ChIP protocol to be used with leaves and inflorescences of Brassica crops species (Brassica rapa and Brassica napus). This protocol was originally based on Gendrel et al. Nature Methods volume 2, pages 213–218 (2005), but has several modifications including chromatin sonication using a BioRuptor (Diagenode), immunoprecipitation using magnetic Dynabeads (ThermoFisher) and DNA elution recovery performed using Chelex 100 (Bio Rad). The protocol is quick and very reproducible and has been validated against a number of histone modifications and protein tag antibodies. .justify:after { content: ""; display:inline-block; width: 100%; }

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