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Datasheet for ABIN4889666 **Spike-in Chromatin**

Overview	
Quantity:	15 tests
Species:	Drosophila melanogaster
Oligo-Type:	Chromatin and DNA
Application:	Chromatin Immunoprecipitation (ChIP)
Product Details	
Purpose:	10 µg Spike-in Chromatin prepared from Schneider's Drosophila Line 2 to normalize chromatin immunoprecipitation (ChIP) experiments.
Purification:	The Spike-in Chromatin is sonicated using an Epishear Probe sonicator. Chromatin is then tested with Spike-in Antibody in a ChIP-IT High Sensitivity Kit.
Components:	10 µg Spike-in Chromatin prepared from Schneider's <i>Drosophila</i> Line 2 to normalize chromatin immunoprecipitation (ChIP) experiments.
Application Details	

Application Notes:	ChIP is a multi-step process in which variations caused by sample loss during
	immunoprecipitation and library preparation, uneven sequencing read depth or user differences
	can lead to results that are difficult to interpret. To overcome this challenge, we have developed
	a spike-in strategy to normalize out technical variation and sample processing bias.
	Additionally, the normalization strategy can be used to monitor the effects of experimental
	conditions, such as inhibitory compounds or mutants. A standard ChIP reaction is set up using
	experimenal chromatin (e.g. human) and an antibody of interest. In addition, Drosophila
	melanogaster chromatin is added, or "spiked-in", to each reaction as a minor fraction of the
	total chromatin. An antibody that recognizes the <i>Drosophila</i> -specific histone variant, H2Av, is
	also added to the reaction. The Spike-in antibody provides a mechanism to reliably pull down a
	small fraction of Drosophila chromatin that is consistent across all samples. Since variation
	introduced during the ChIP procedure will aslo occur with the spike-in chromatin, a

Application Details	
	normalization factor can be created based on the <i>Drosophila</i> signal and applied to the sample genome. Unlike other normalization methods that rely on the same protein-specific antibody for both sample and normalization control, our normalization strategy with the separate Spike-in antibody enables normalization across different antibodies without bias.
Restrictions:	For Research Use only
Handling	
Storage:	-80 °C
Storage Comment:	Store at -80°C.
	We recommend aliquoting the chromatin into single-use fractions and then storing them at - 80°C. This eliminates repeated freeze/thaw cycles.
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Publications	
Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)