



## dCas9-NLS

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The dCas9-NLS protein is a DNA-cleavage-deficient mutant of the *Streptococcus pyogenes* Cas9 protein (D10A, H840A), expressed recombinantly in *Escherichia coli*. The activity of DNA digestion of dCas9 is inactivated. It links with nuclear localization of tagged protein to form Cas9-NLS. An NLS signal peptide is added to the protein's C-terminus. dCas9-NLS can stably bind to the guide RNA (gRNA) and form a complex that can bind to target DNA.

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