Product Testing Report



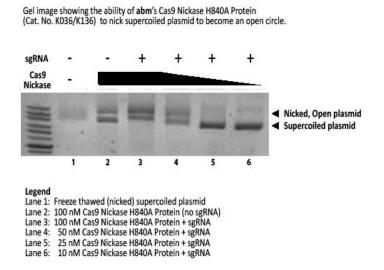
Cas9 Nickase H840A Protein Functional Test

Method

To test the ability of Cas9 Nickase H840A Protein (Cat. No. K036/K136) to generate single strand breaks *in vitro*, Cas9 Nickase H840A Protein was first pre-incubated with sgRNA (200 nM) at 37°C for 30 minutes, and then added to the super-coiled plasmid (250 ng) and continued to incubate for another hour at 37°C. Varying concentration of the Nickase (100 nM, 50 nM, 25 nM, 10 nM) was used to examine the dose dependent nicks in the super-coiled plasmid.

Results

Cas9 Nickase H840A Protein nicked the plasmid leading to a more open, circular plasmid, which migrated through the gel slower compared to the super-coiled DNA, in a Cas9-dose dependent manner.



Conclusion

abm's Cas9 Nickase H840A Protein (Cat. No. K036/K136) makes single strand breaks efficiently at a concentration of 100 nM and leaves almost no super-coiled plasmid as compared to the lower Cas9 nickase concentrations.

