

Product Testing Report



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Cas9 Null Mutant Functional Test

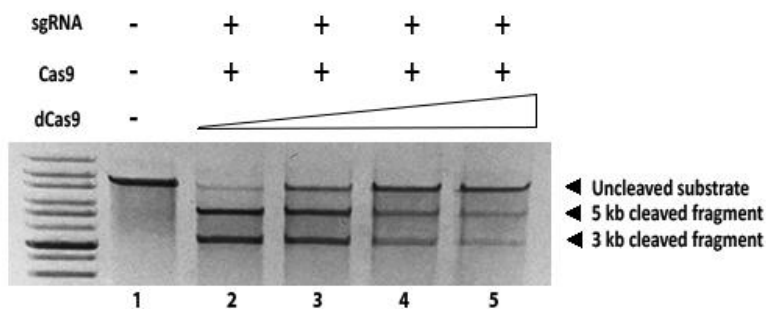
Method

To test the ability of the Cas9 Null Mutant protein (Cat. No. K040/K140) to inhibit DNA cleavage *in vitro*, 100 nM sgRNA was separately pre-incubated with 50 nM Cas9 Nuclease (Cat. No. K030/K130) and increasing concentrations of the Cas9 Null Mutant (0, 10, 25 and 50 nM) at 37°C for 30 minutes. Next, the DNA substrate (250 ng) was added to the sgRNA + dCas9 complexes and allowed to incubate for 3 hours. Finally, the sgRNA + Cas9 complexes were added to the sgRNA+dCas9+DNA substrate mixture and incubated for an additional 30 minutes.

Results

The Cas9 Null Mutant was able to compete against the Cas9 Nuclease and inhibit DNA cleavage in a concentration dependent manner.

Gel image showing the ability of abm's Cas9 Null Mustant (dCas9) Protein (Cat. No. K040/K140) to bind DNA and prevent cleavage by the Cas9 Nuclease.



Conclusion

abm's Cas9 Null Mutant Protein (Cat. No. K040/K140) can bind target DNA and inhibit cleavage by the Cas9 Nuclease.