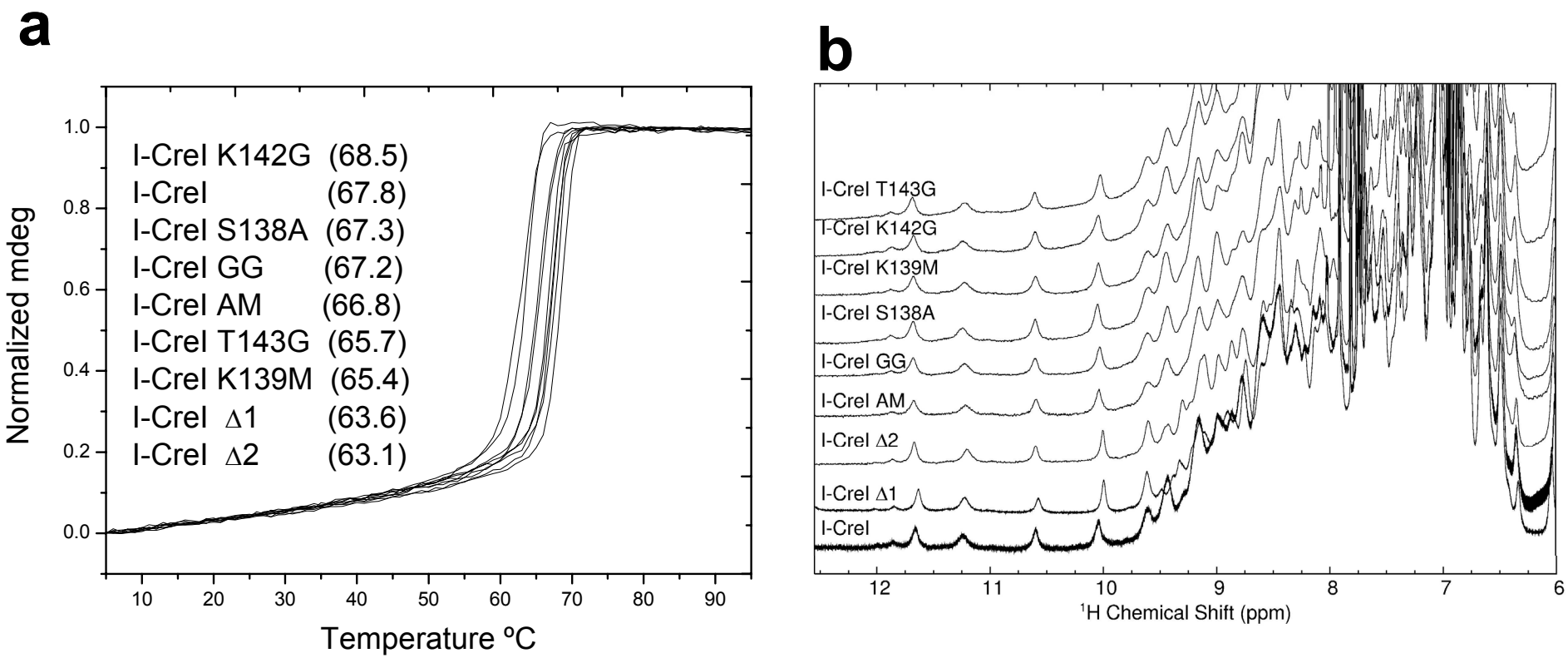
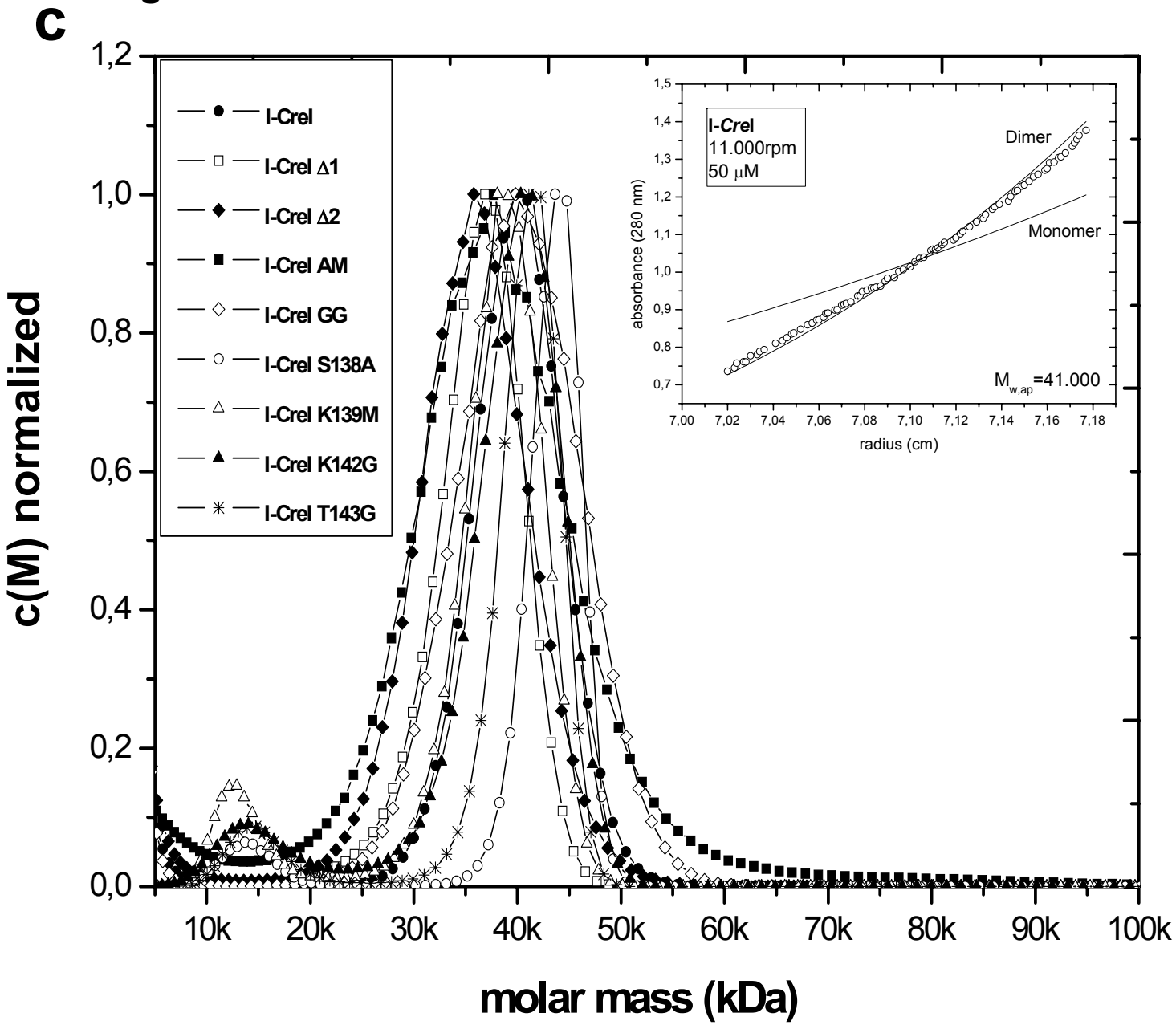
Supporting material figure 1.-



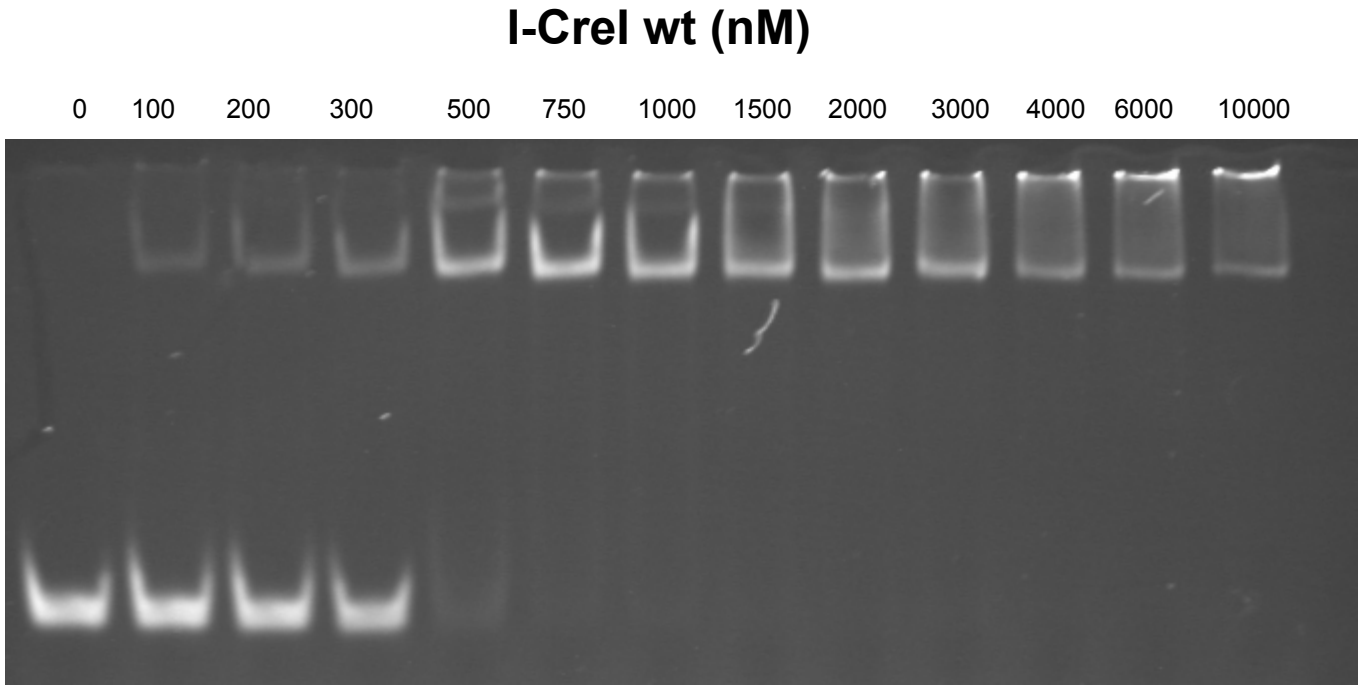
Supporting material figure 1.-



Supporting material figure 1.- Biophysical characterization of the I-CreI C-terminal region mutants. **a)** Circular dichroism thermal denaturation. **b)** One dimensional 1H NMR spectra. **c)** Analytical ultracentrifugation measurements. Sedimentation velocity distribution of the I-CreI proteins (1mg/ml in PBS buffer) at 42,000 rpm and 20ºC. Inset, sedimentation equilibrium gradient of I-CreI proteins (4mg/ml in PBS buffer) at 11,000 rpm and 20ºC. Open circles represent the experimental data, the two solid lines represent the theoretical gradients of a I-CreI monomer (20,045 Da) and dimer (41,000 Da).

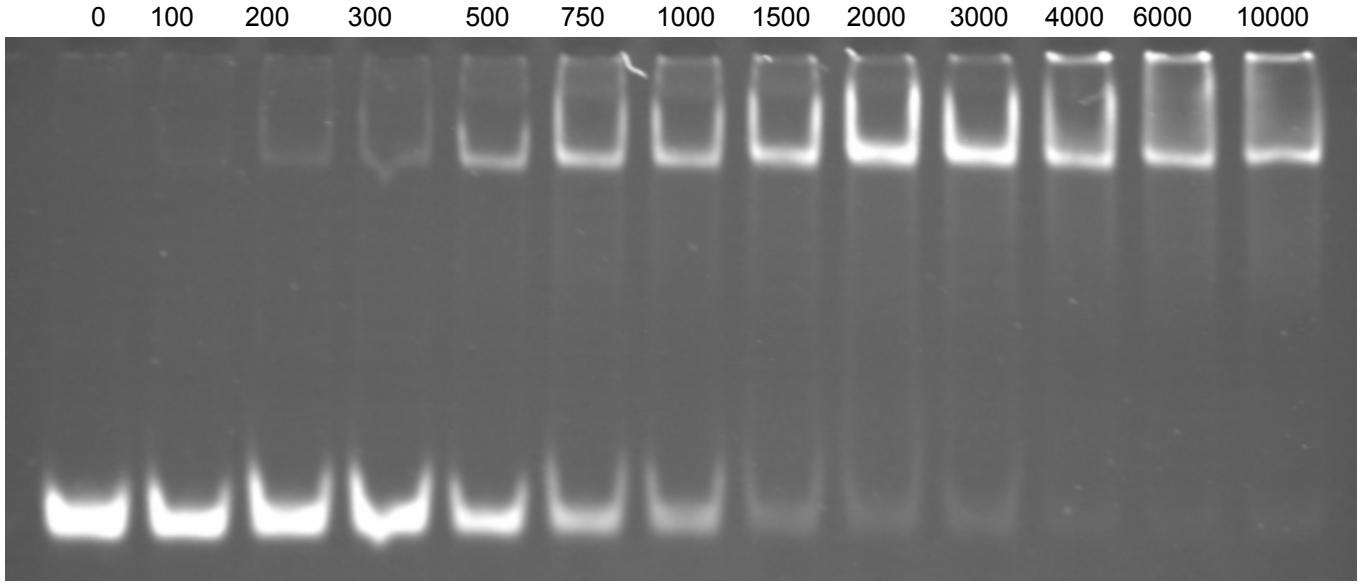
Gels for the dissociation constants (K_D)

Ca^{2+}


I-CreI wt (nM)
0
100
200
300
500
750
1000
1500
2000
3000
4000
6000
10000

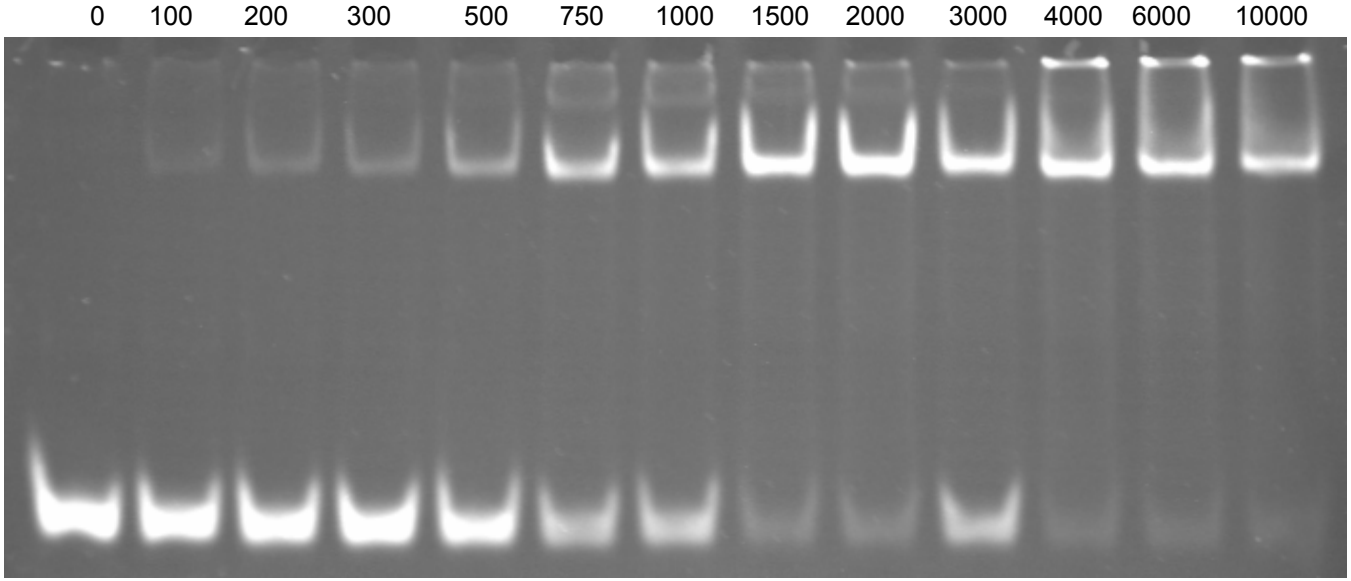
Ca^{2+}

I-CreI T143G (nM)



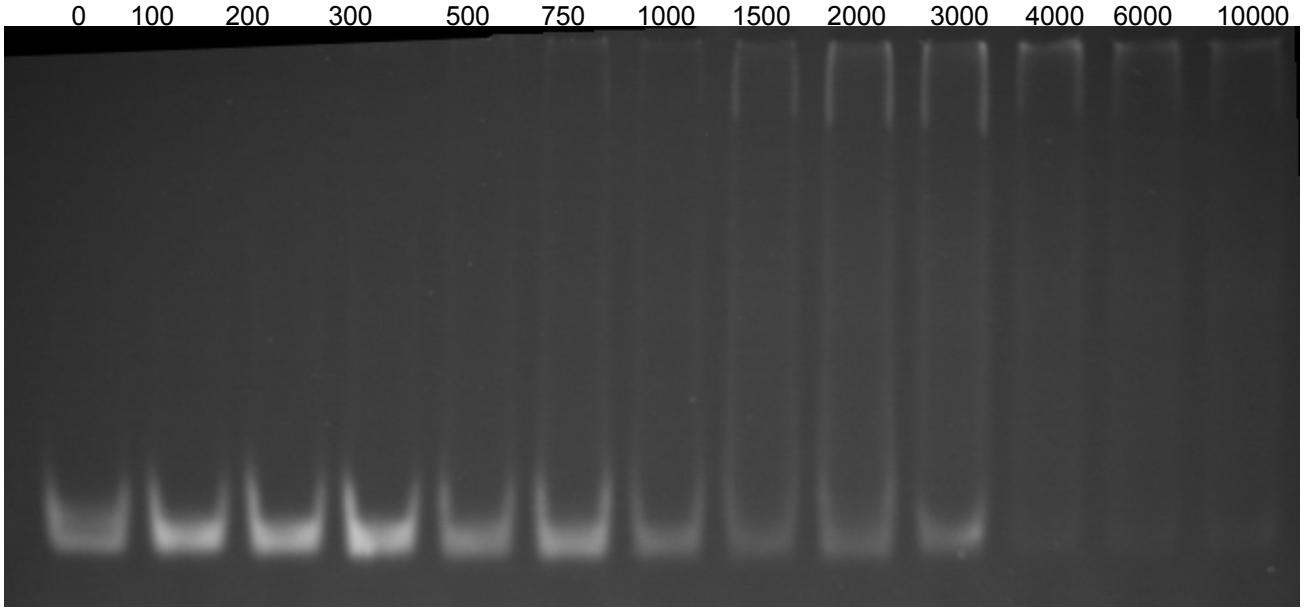
Ca^{2+}

I-CreI K142G (nM)



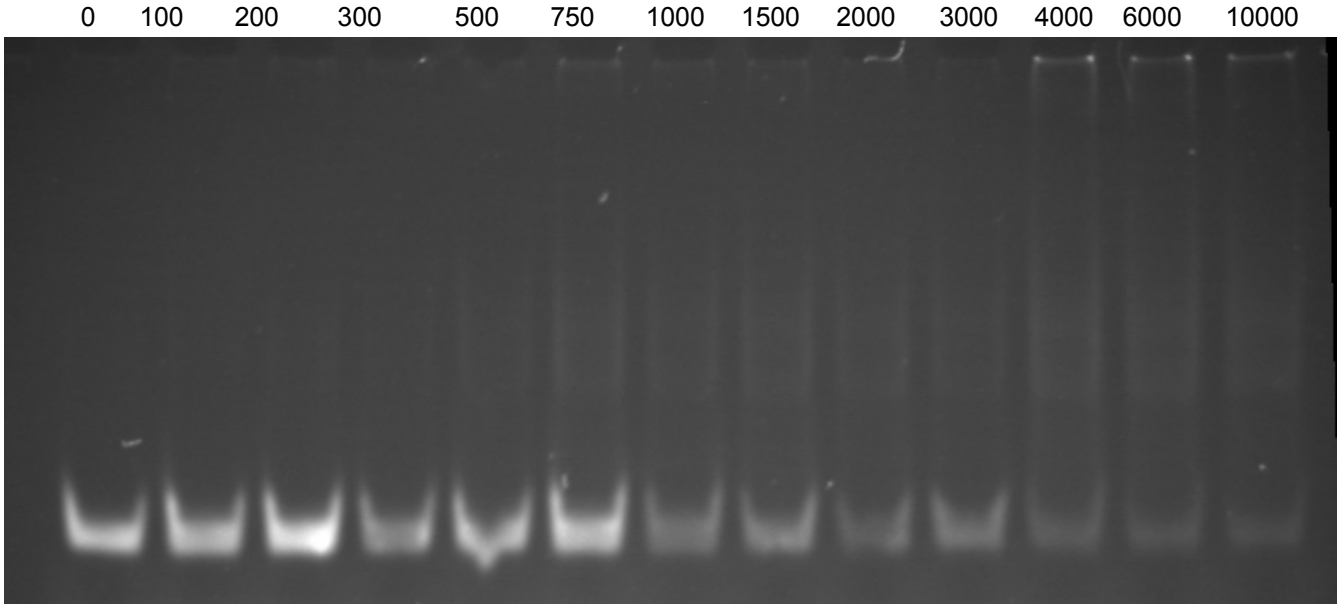
Ca^{2+}

I-CreI S138A (nM)

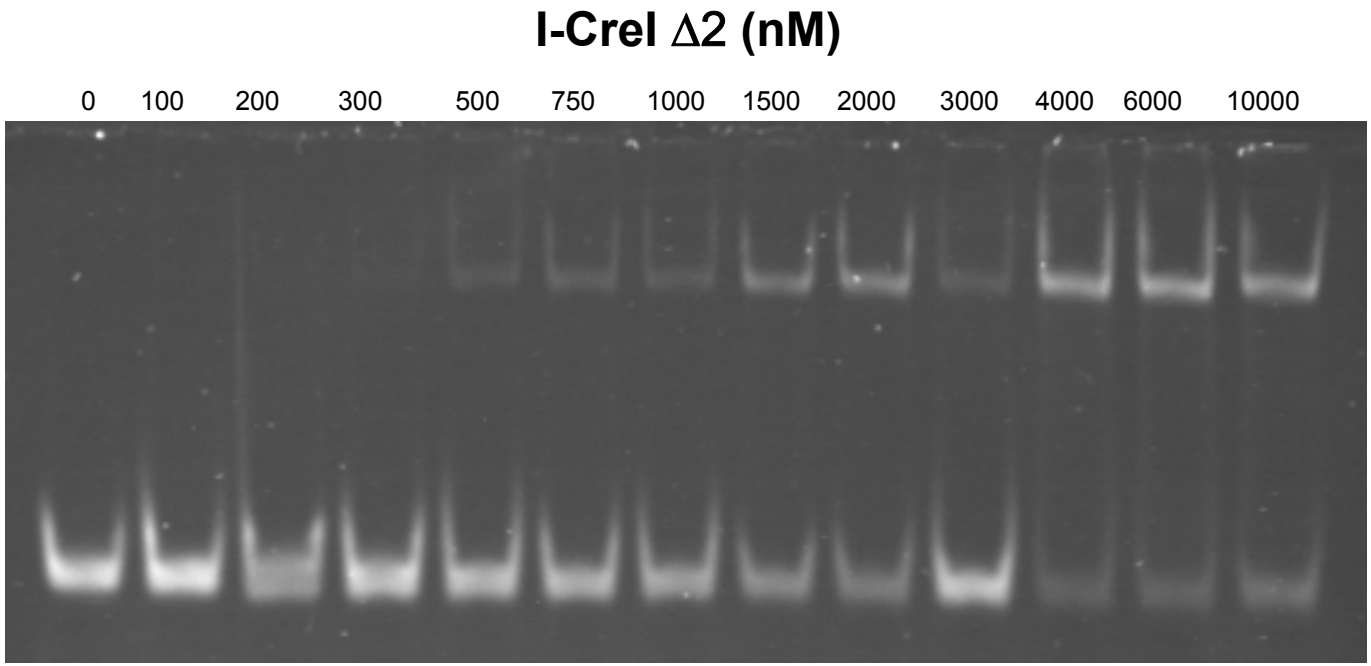


Ca^{2+}

I-CreI K139M (nM)

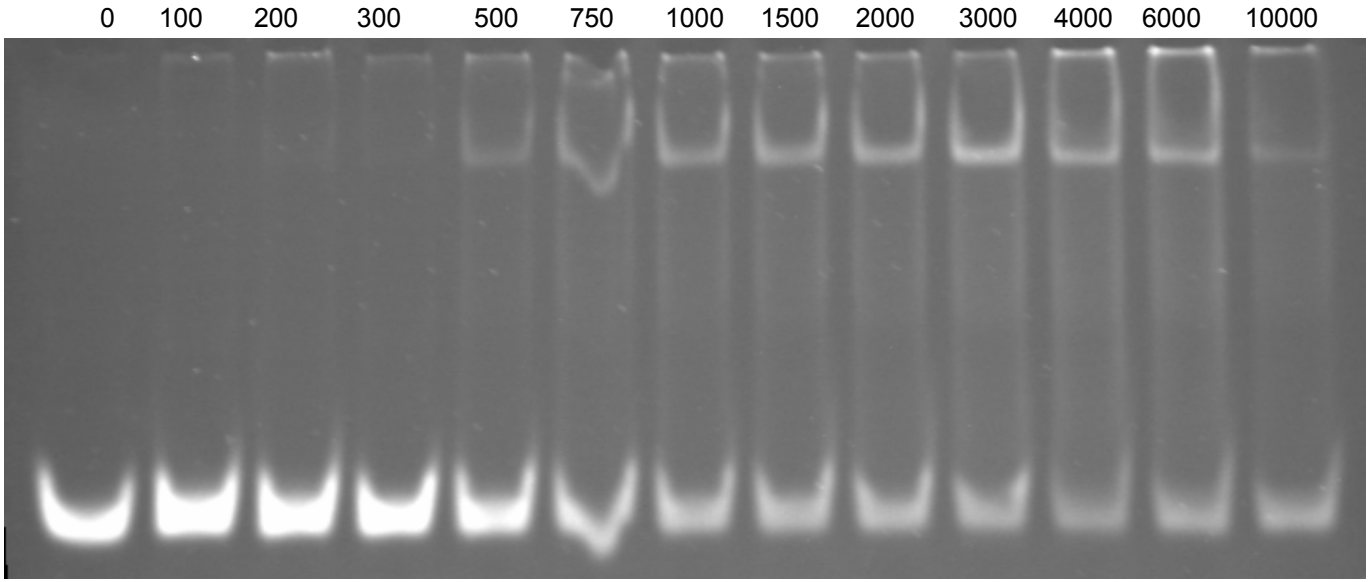


Ca^{2+}

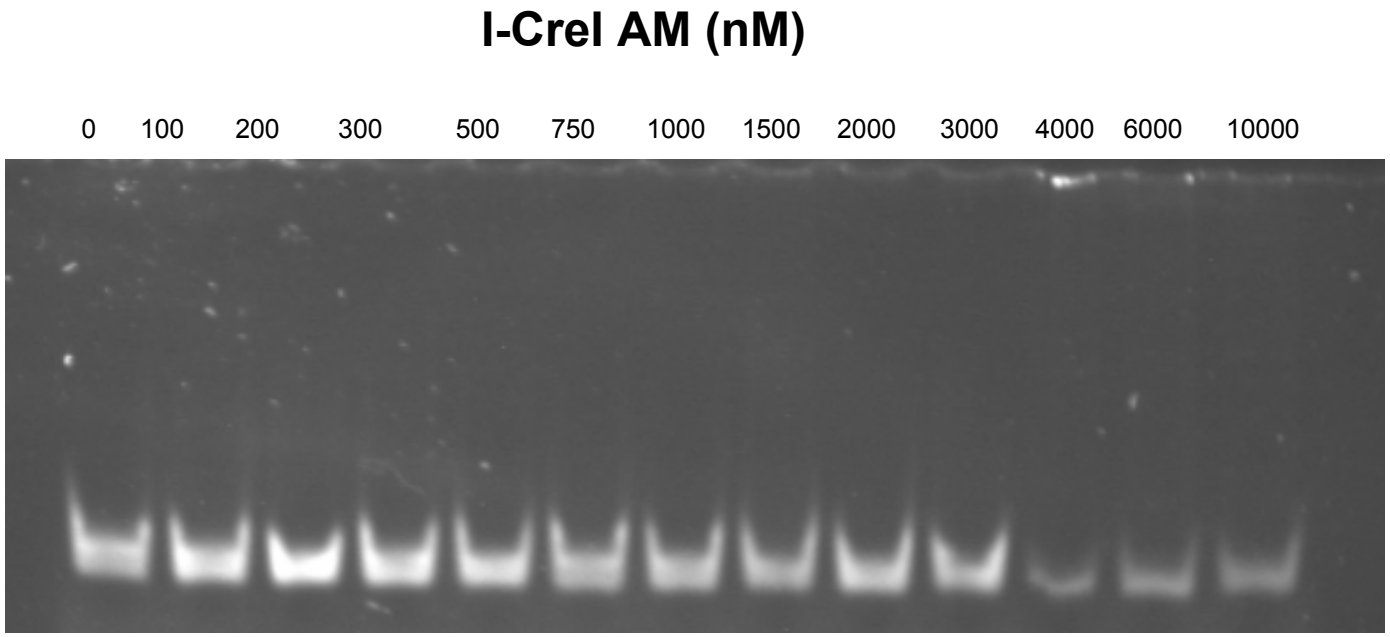

I-CreI Δ2 (nM)
0
100
200
300
500
750
1000
1500
2000
3000
4000
6000
10000

Ca^{2+}

I-CreI GG (nM)

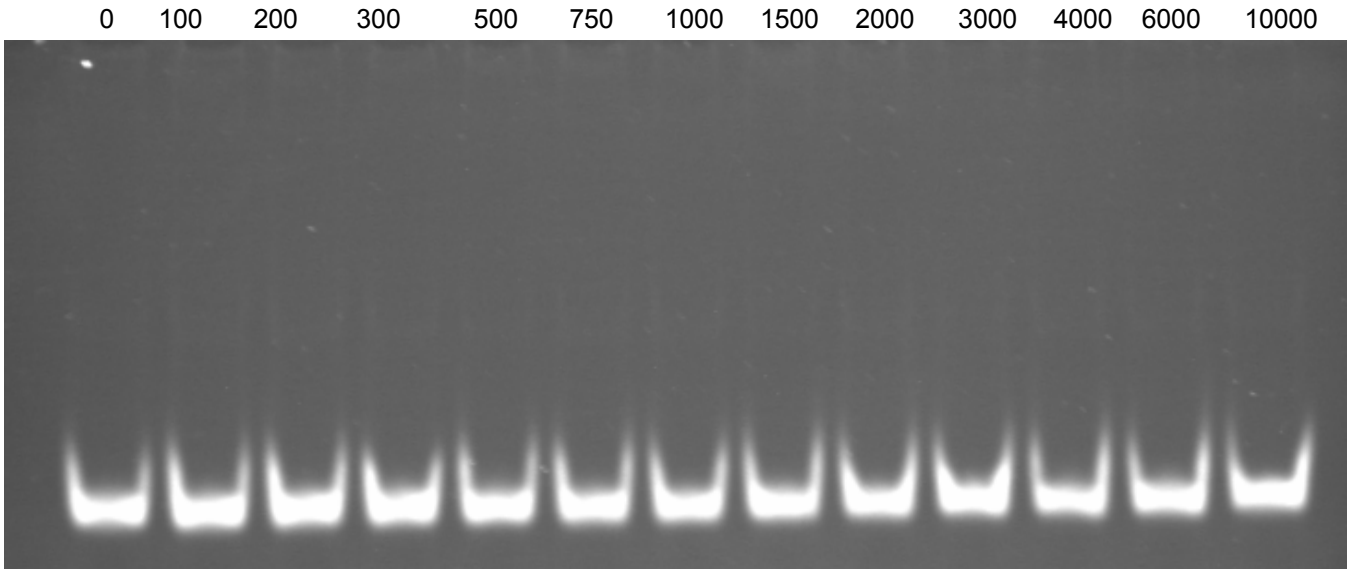


Ca^{2+}


I-CreI AM (nM)
0
100
200
300
500
750
1000
1500
2000
3000
4000
6000
10000

Ca^{2+}

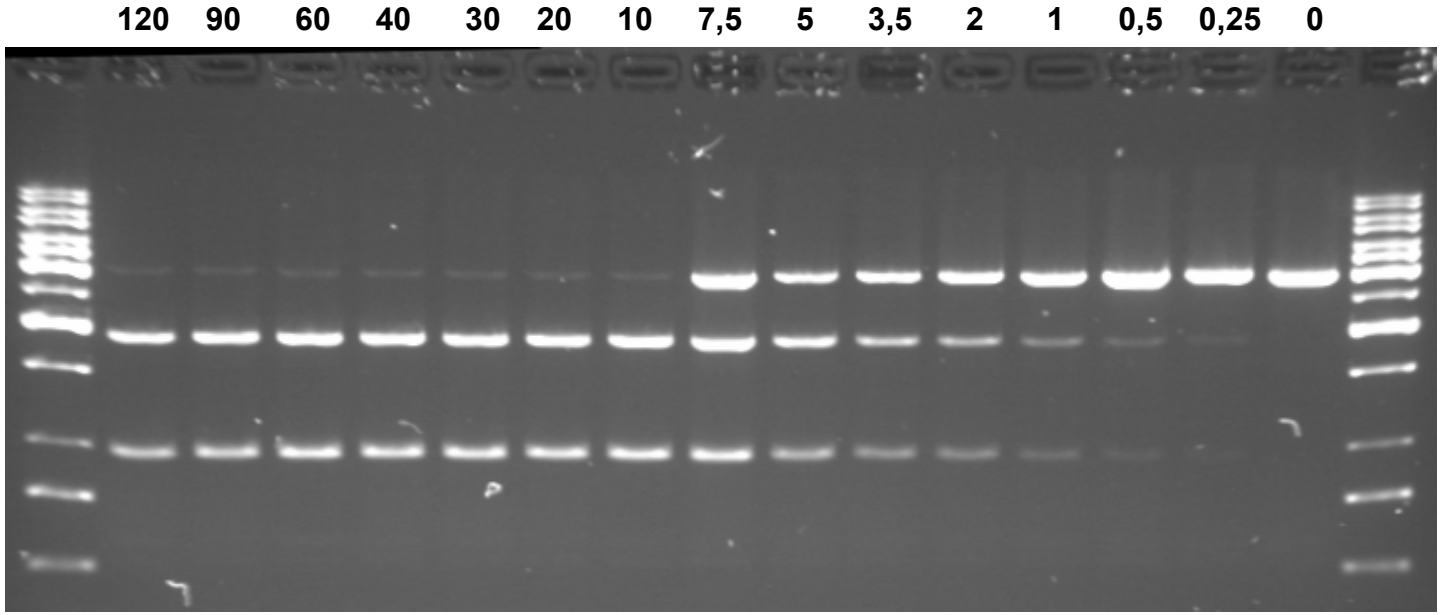
I-CreI Δ1 (nM)



Gels for the cleavage C_{50}

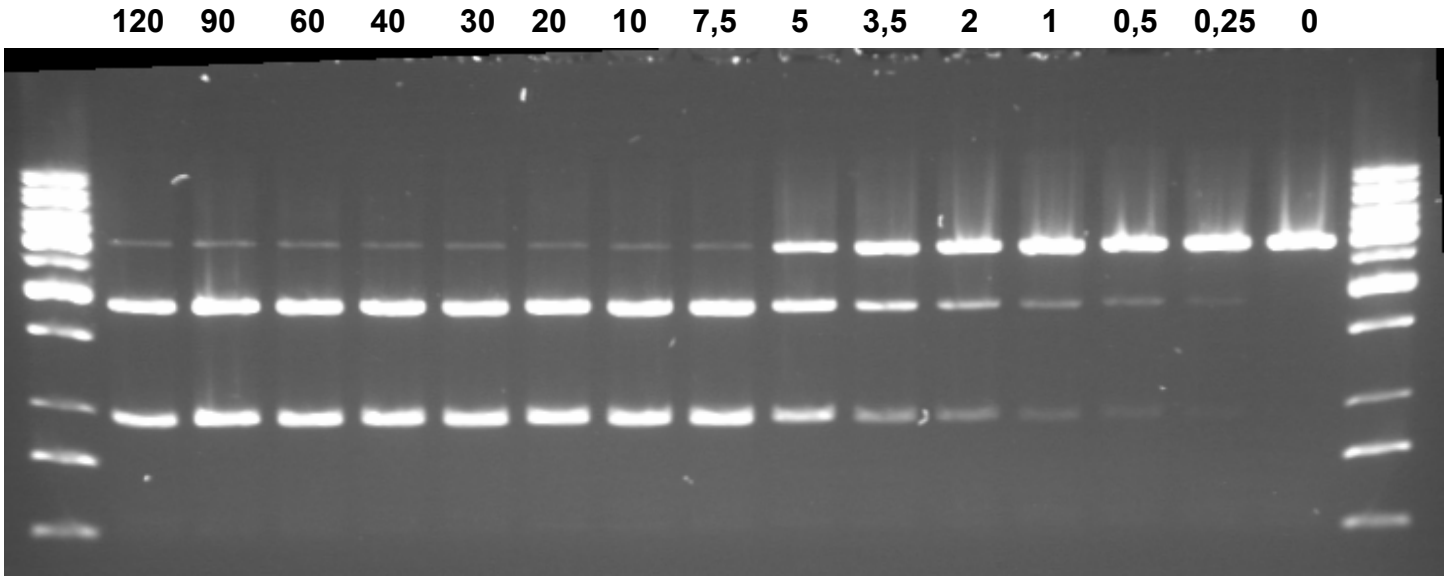
Mg^{2+}

I-CreI wt (ng)



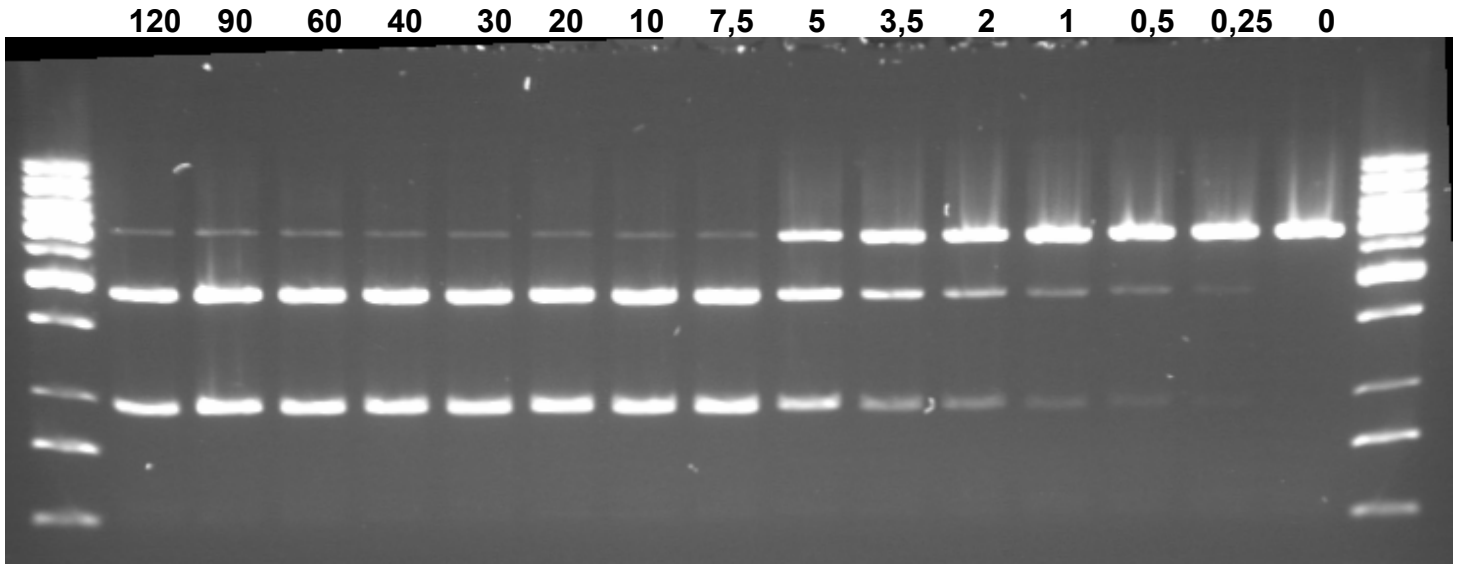
Mg^{2+}

I-CreI T143G (ng)



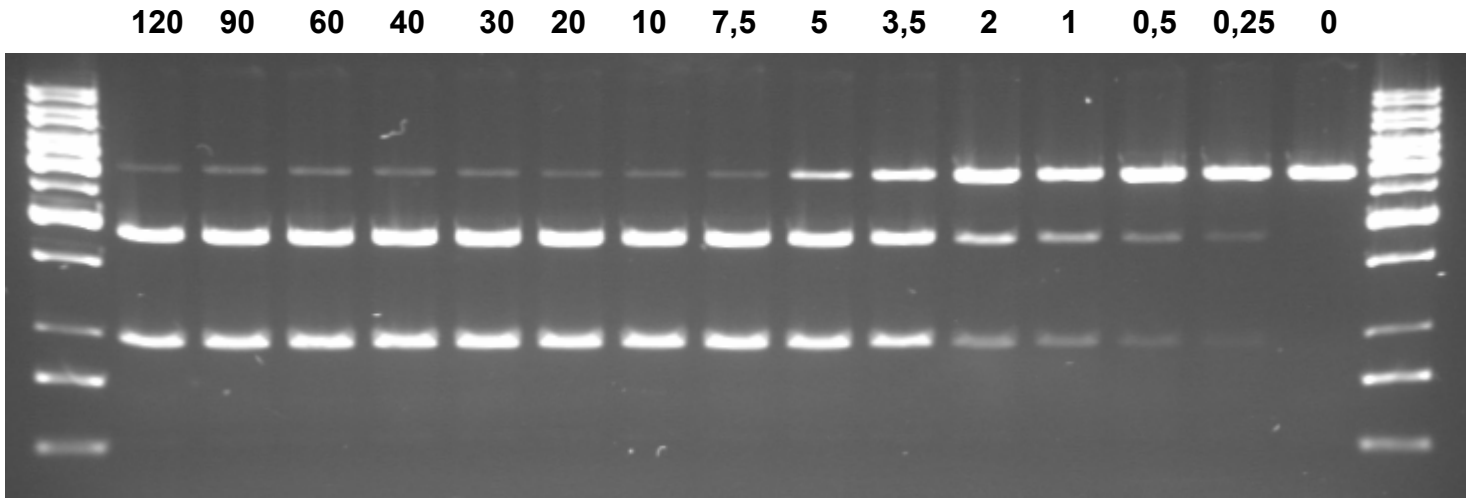
Mg^{2+}

I-CreI K142G (ng)



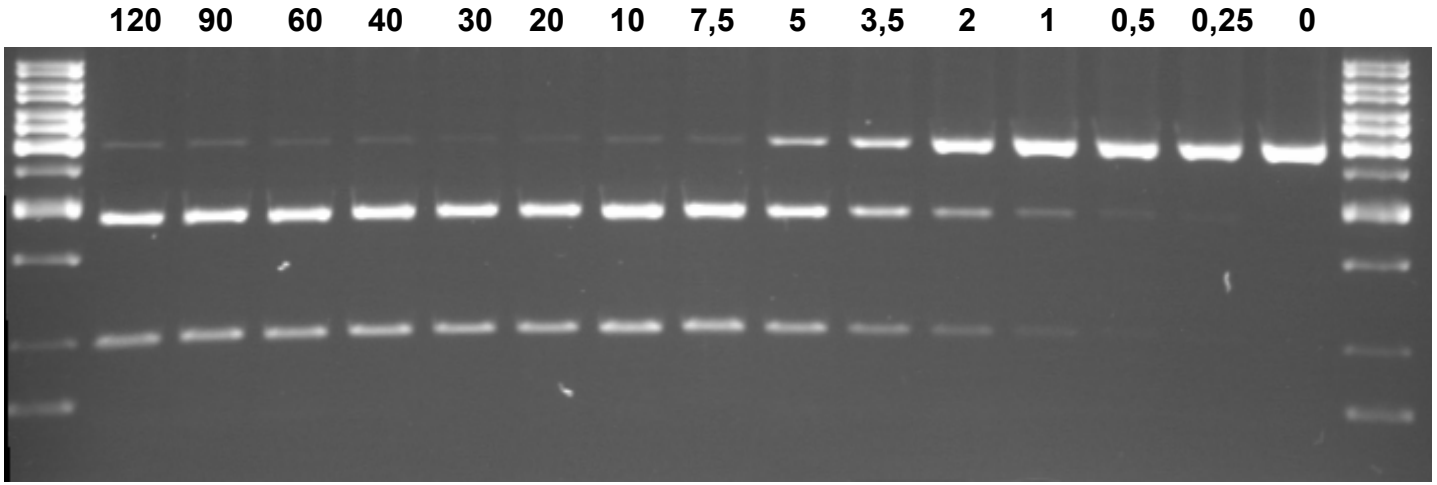
Mg^{2+}

I-CreI K139M (ng)



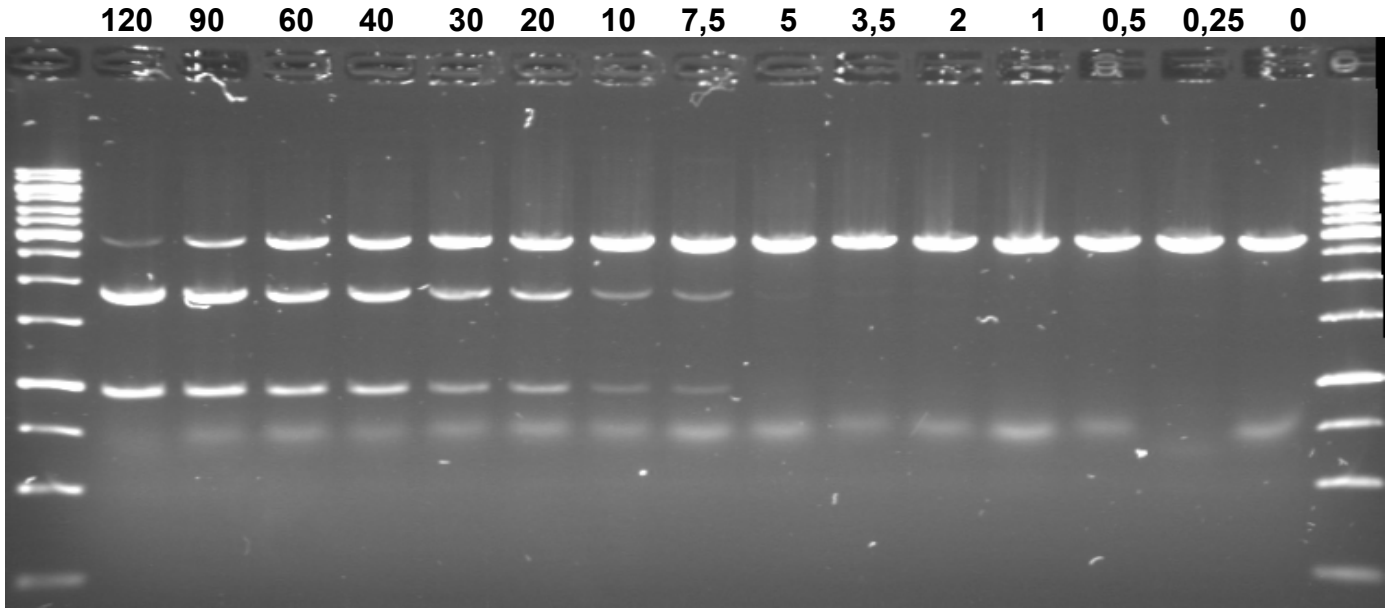
Mg^{2+}

I-CreI S138A (ng)



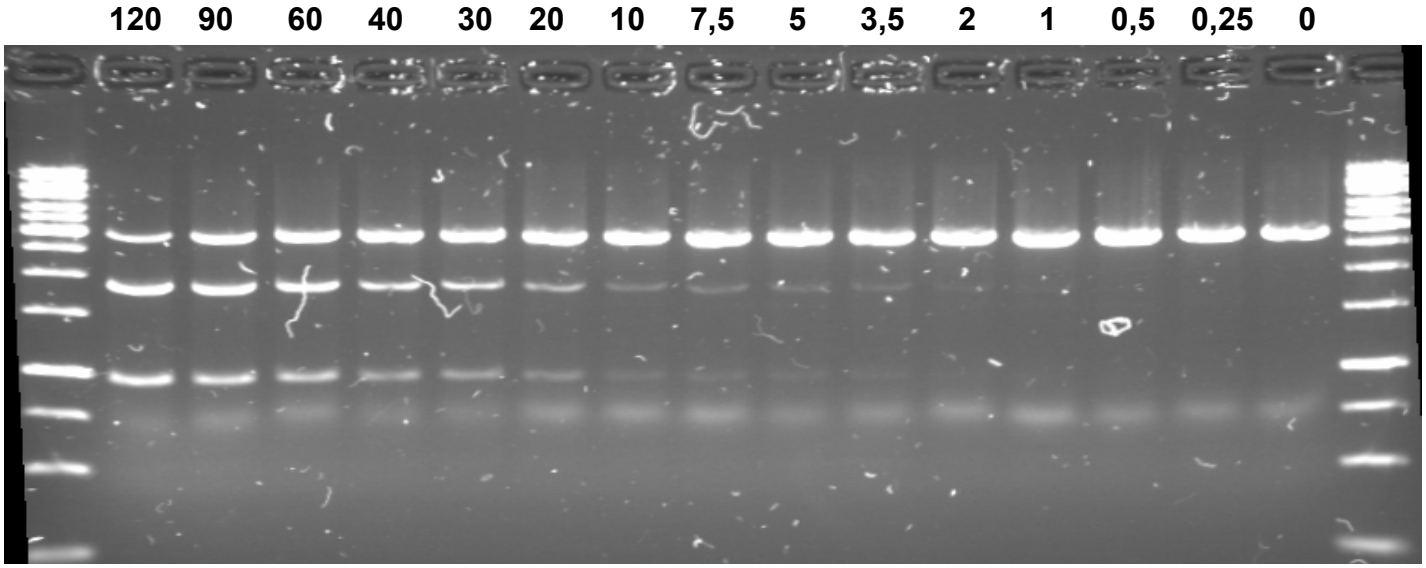
Mg^{2+}

I-CreI Δ2 (ng)



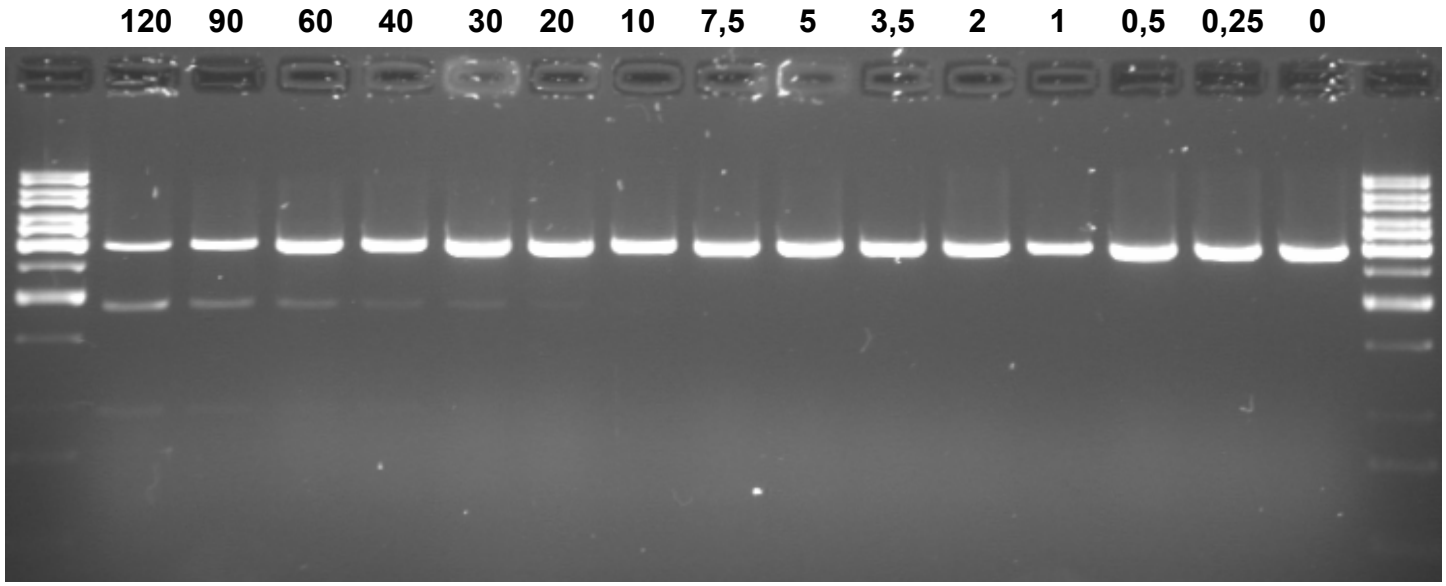
Mg^{2+}

I-CreI AM (ng)



Mg^{2+}

I-CreI GG (ng)



Mg^{2+}

I-CreI Δ1 (ng)