Electronic Supplementary Material (ESI) for RSC Advances.

Endonuclease-like activity of N-terminal domain of *Euplotes octocarinatus* centrin

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Fig. S1

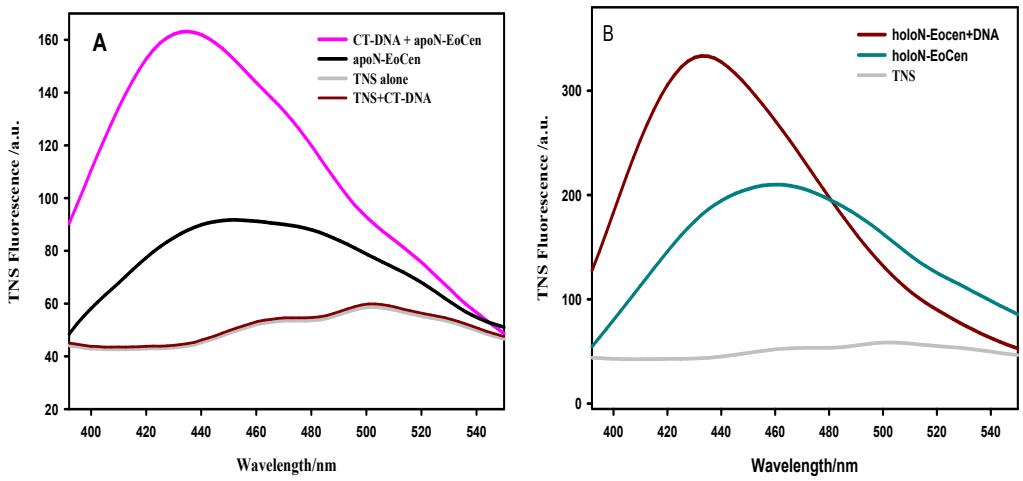

Fig. S1 Steady-state fluorescence spectra of TNS bound to apoN-EoCen (a, 10 μM) or holoN-EoCen (b, 10 μM, $[Ca^{2+}]$ = 2 mM) in the presence or absence of CT-DNA ([bp] = 0.35 mM) in 10 mM Hepes buffer (pH 7.4) at room temperature, the spectra of TNS and TNS-CT-DNA in buffer were shown in S1a, the concentration of TNS was 10 μM. The protein and CT-DNA mixed solution was equilibrated for 10 min before the addition of TNS

Fig. S2

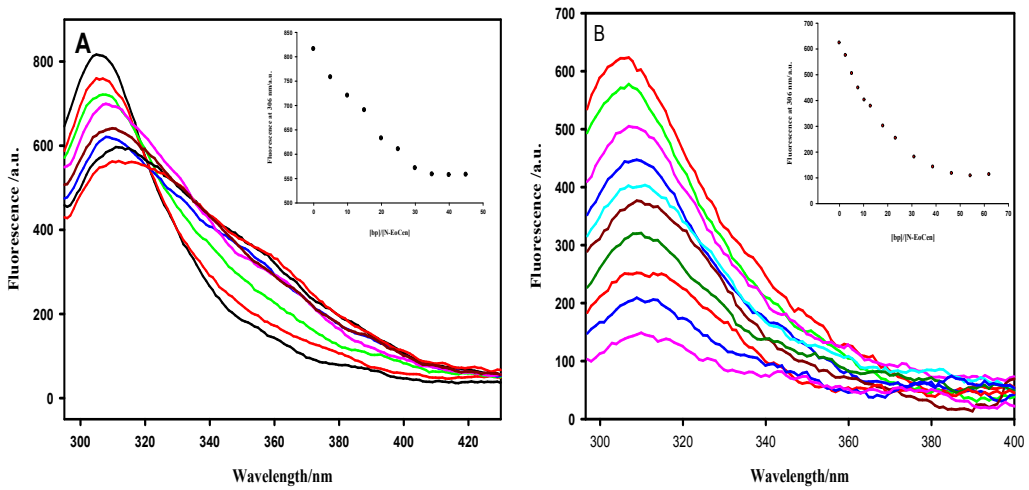

Fig. S2 Fluorescence spectra of apoN-EoCen (a) or holoN-EoCen (b) titrated with increasing concentration of CT-DNA from 0 to 0.45 mM in 10 mM Hepes buffer (pH 7.4) at room temperature. Inset, the plot of fluorescence intensities at 306 nm as a function of [bp]/[N-EoCen] ratio

Fig. S3

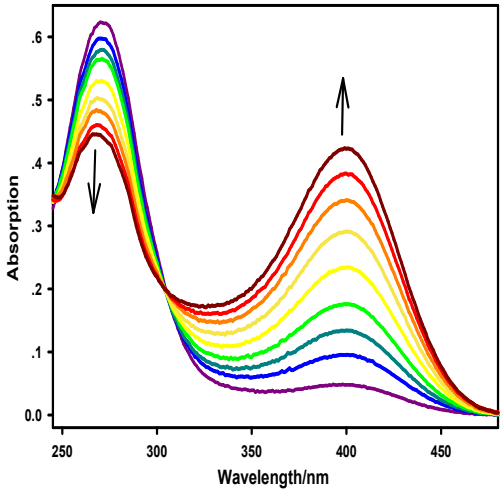

Fig. S3 UV–vis spectra of apoN-EoCen (1 μM) catalyzed hydrolysis of 4NPA (0.5 mM) in 10 mM Tris–HCl, pH 7.0, 25 ℃. The loss of 4NPA and formation of 4-nitrophenoxide are observed at 270 and 400 nm, respectively, and an isobestic point is observable at 303 nm.