

A

	Putative binding motif (TTCTT)
PINCR (L=2228)	N=6 ES = 2.8

B

A 5-mer motif will appear every 2^{10} (1024) nucleotides in the human mRNA transcriptome.

Average size of a human mRNA is 2048 nucleotides.

So, a 5-mer motif should appear 2 times in a 2048 nt RNA.

The enrichment score = $2^{2n}/L \times N$.

N = number of times the motif appears in your RNA length.

L = length of the RNA, and n = motif length.

C

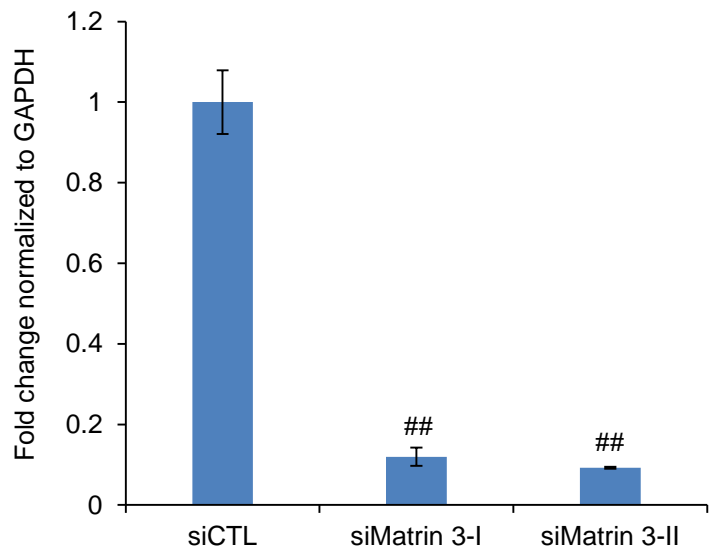


Figure 5 – figure supplement 1. (A, B) Putative Matrin 3 binding motif in *PINCR* RNA. (A) “N” represents the number of times the motif appears in the *PINCR* RNA. “ES” represents the enrichment score calculated as shown in “B”. (C) HCT116 cells were reverse transfected with a control siRNA (siCTL) or siRNAs targeting Matrin 3 (siMatrin 3-I and siMatrin 3-II) for 48 hr and the extent of Matrin 3 knockdown was measured by qRT-PCR for Matrin 3 normalized to GAPDH. Error bars represent SD from 3 independent experiments. ##p<0.001.