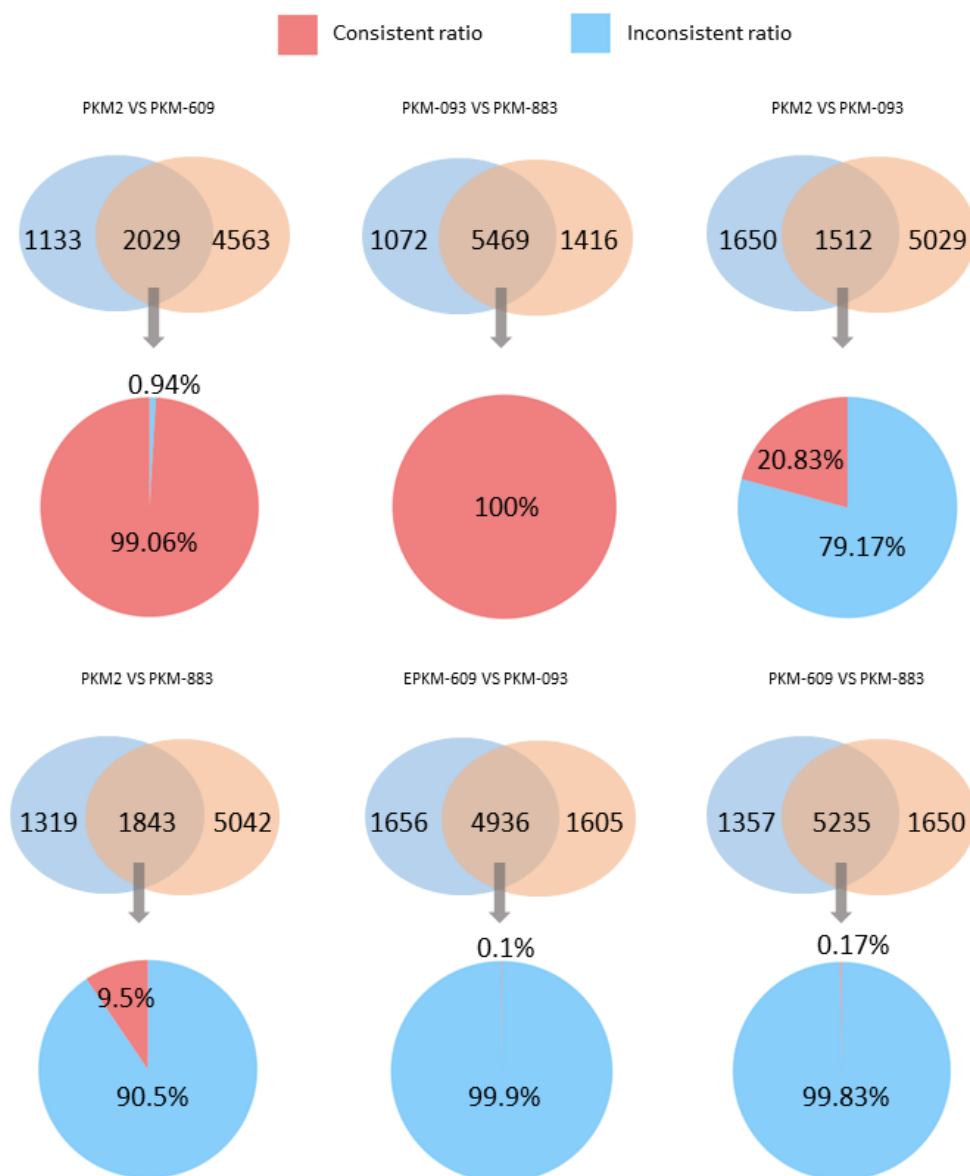
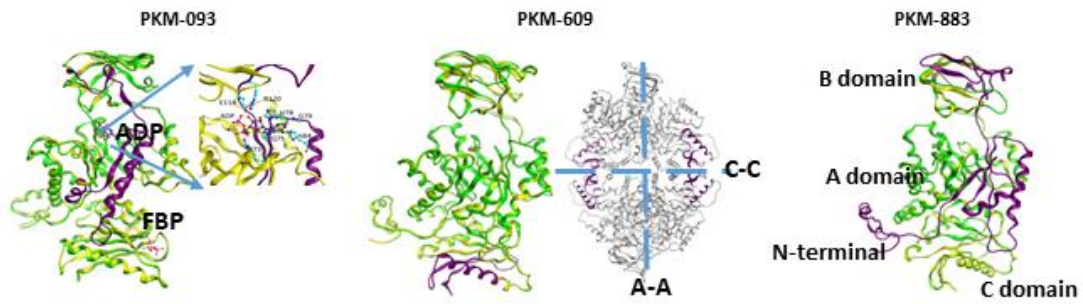


# Discovery of Functional Alternatively Spliced *PKM* Transcripts in Human Cancers

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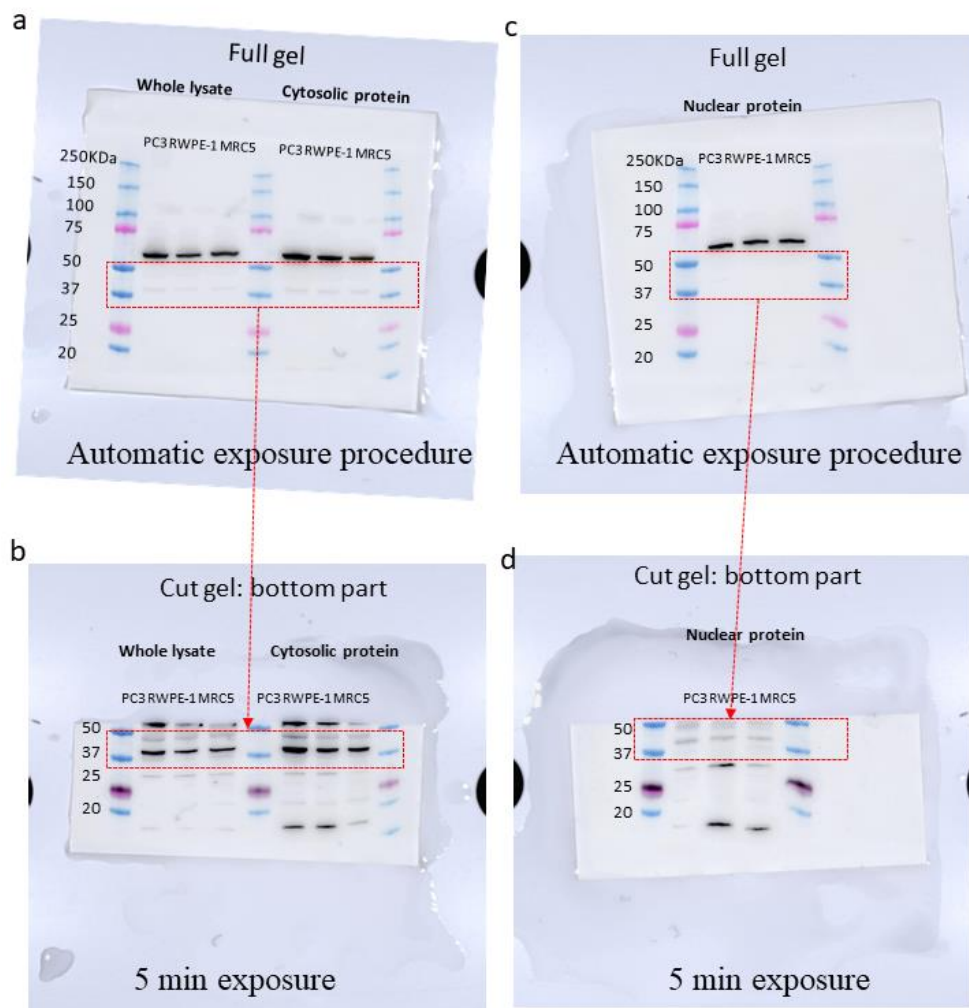


**Figure S1.** Overlapping of DEGs between transcripts in TCGA KIRC cohort.



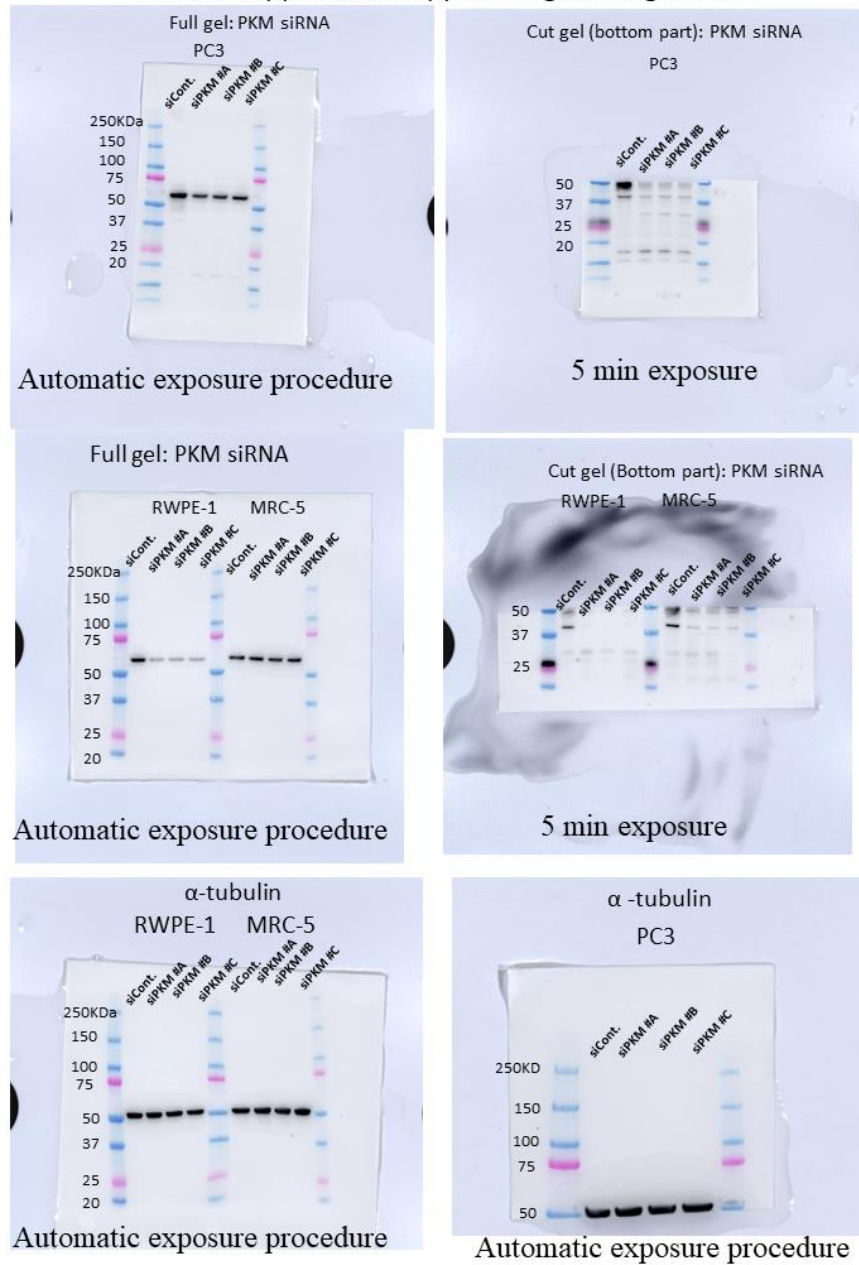
**Figure S2.** Homology modelling predicted structures of the protein products of PKM-609, PKM-093 and PKM-883.

The uncropped and cropped images of Figure 4c



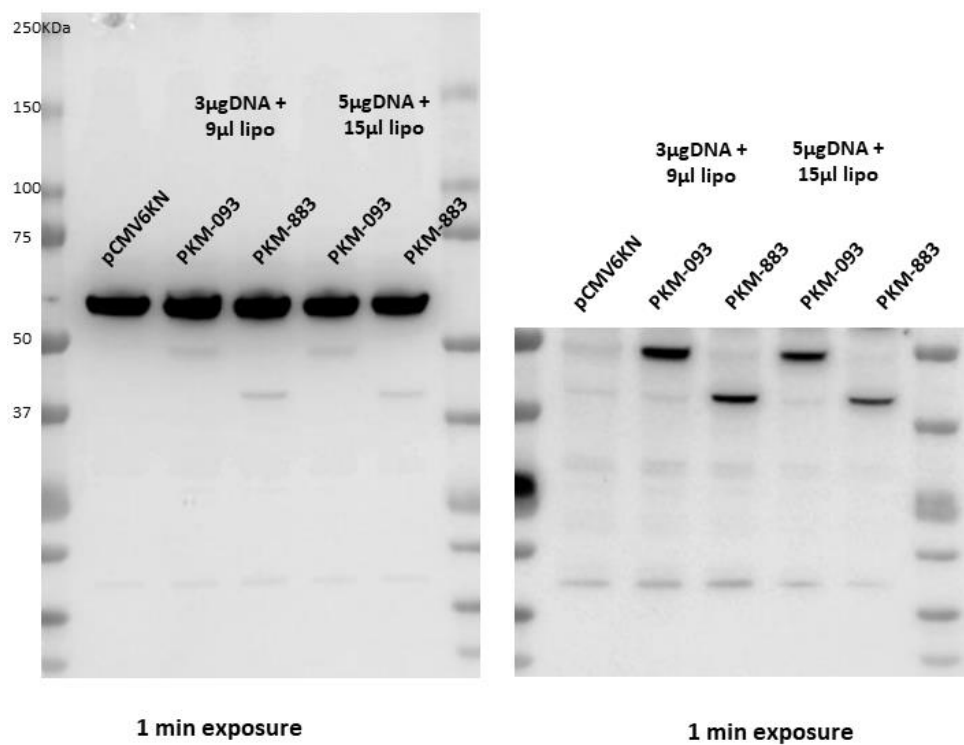
**Figure S3.** The uncropped and cropped Western blot images showing the proteins encoded by the transcript PKM-093 and PKM-883.

The uncropped and cropped images of Figure 4d

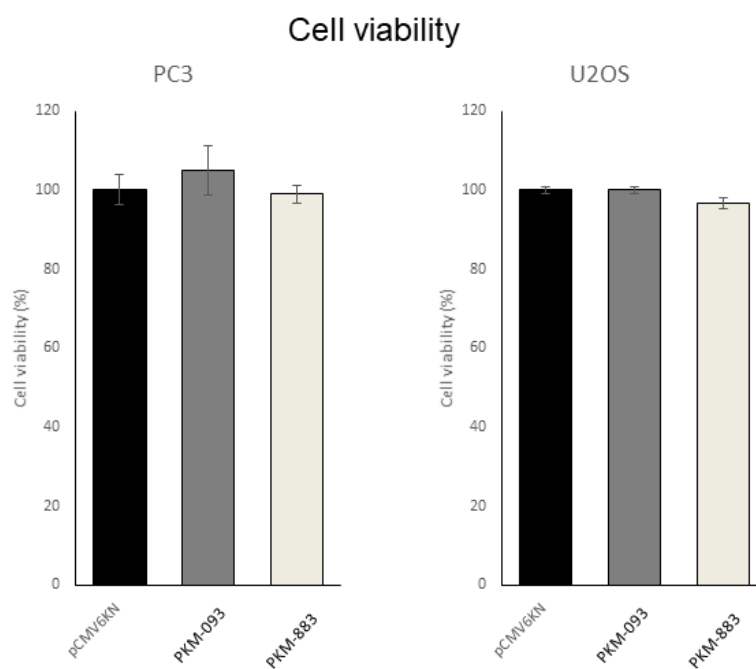


**Figure S4.** The uncropped and cropped Western blot images showing the protein level of PKM1/2, PKM-093 and PKM-883 with siRNA and negative control.

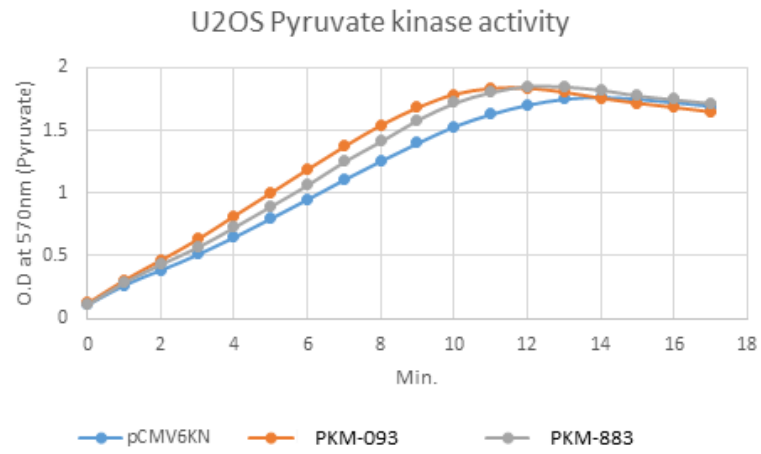
The uncropped and cropped images of Figure 5a



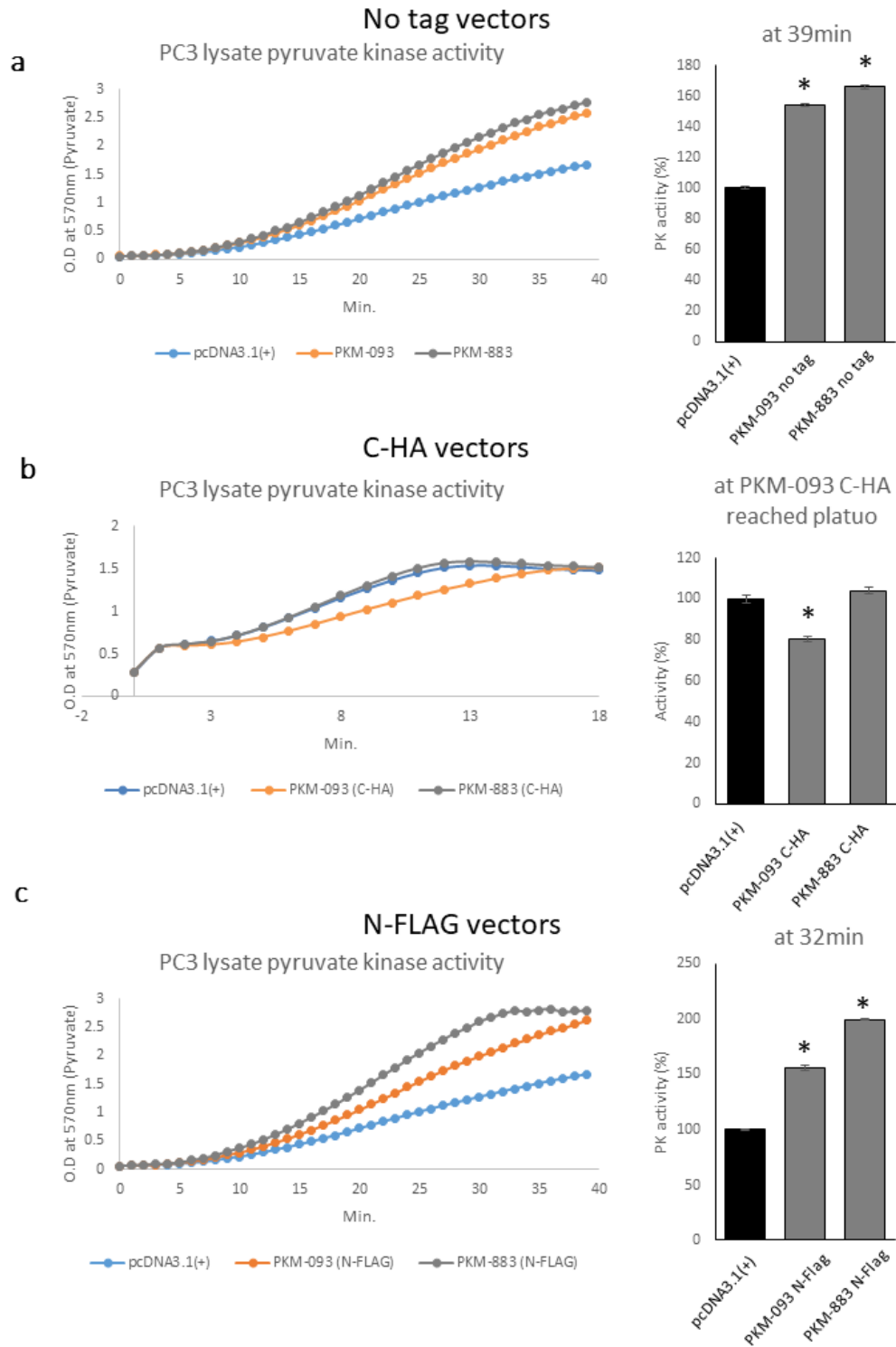
**Figure S5.** The uncropped and cropped Western blots showing the over-expression of transfected PKM-093 and PKM-883, respectively.



**Figure S6.** Cell viability of PC3 and U2OS cells with empty vectors, PKM-093 over-expression and PKM-883 over-expression.

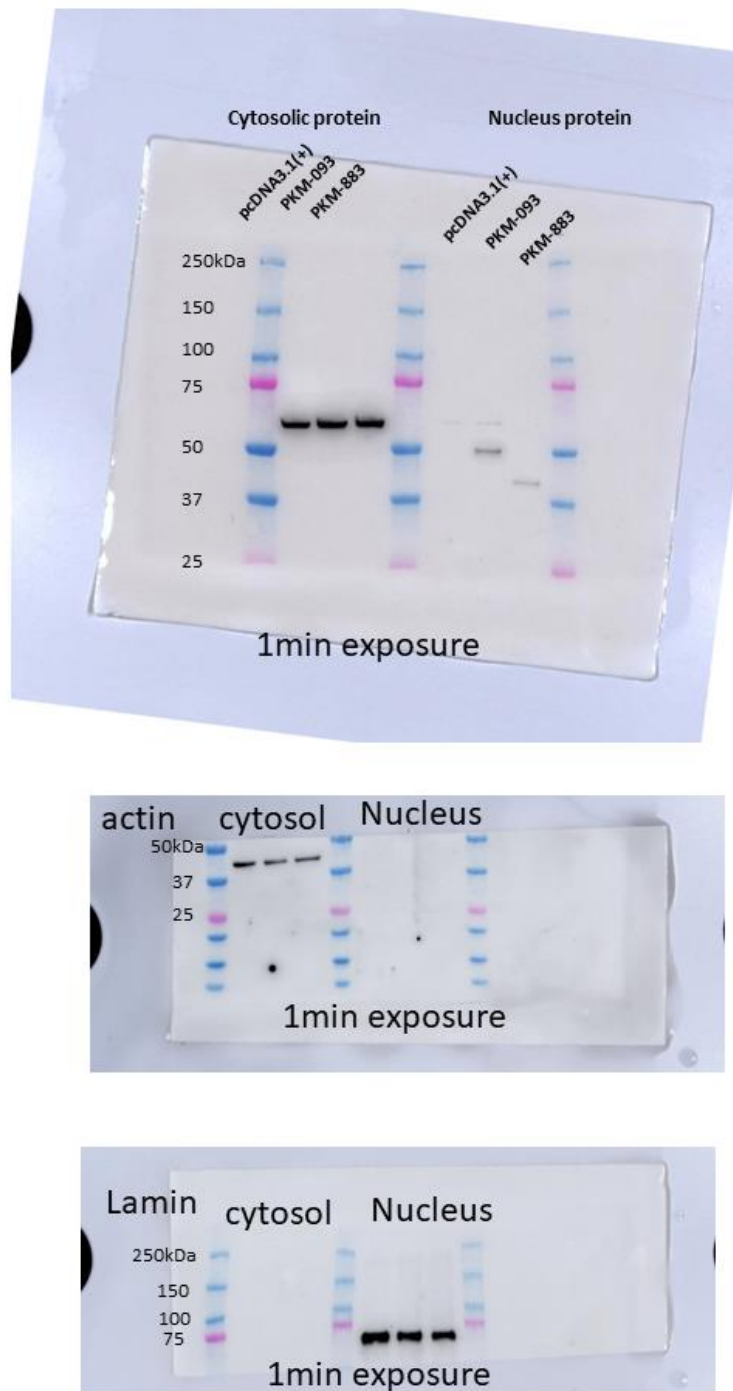


**Figure S7.** Pyruvate kinase activity in U2OS cells with empty vectors, PKM-093 over-expression and PKM-883 over-expression.



**Figure S8.** Pyruvate kinase activity in PC3 cells with overexpressed PKM-093 and PKM-883 with no tag, HA tag at C-terminal and flag tag at N-terminal.\* indicates  $t$ -test  $p < 0.05$ .

# The uncropped images of Figure 5c



**Figure S9.** The uncropped Western blot images showing the overexpressed proteins of PKM-093 and PKM-883 in cytosol and nucleus within the same cell portion.



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