

S2 Table: ND7 5' most gRNA populations and predicted mRNA sequences generated.

A. ND7 Form A		Predicted mRNA Sequence	Reading Frame
<div>M I S I I L C Y F W ST</div> <div>M T T W ST</div> <div>M L F L V V F L H L Y R F T F G P Q</div> <div><u>AUGACUACAUGAUAAGUA</u><u>nCAuuuuAuGuuAuuuuuuGGuAGuuuuuuuuACAuuuGuAnCGuuuuACAuuuG*GUCCACAG</u></div> <div>::: : : : : :</div> <div>,,UAUAGUAAGAUGCAAUGAAAGCCGUCAAAGAGAAUGUAAACAUUAAA</div>			ORF
Cell Line	gRNA Sequence		
EATRO 164 BS	AAATATACAAATGTAAGAGAACTGCCGAAAGTAACGTAGAAATGATAT _N		20487
TREU 927 PC	AAATATACAAATGTAAGAAAACATATCGAGAGTGATGTAGAAATGATAT _N		10537
TREU 667 PC	AAATATACAAATGTAAGAAAACATATCGAGAGTGATGTAGAAATGATAT _N		787

B. ND7 Form B		Predicted mRNA Sequence	Reading Frame
M T T W Y S I I L C Y F W ST		ORF	
M I ST M L F L V V F L H L Y R F T F G P Q			
AUGACUACAUGAU <u>A</u> AGUAuCAuuuuAuGuuAuuuuuGGuAGuuuuuuuACAuuuGuAuCGuuuuuACAuuuG*GUCCACAG			
: : : : : : : nUAUUUAUGUAAGAUGCAAUGAAAAGCCGUC AAGAGAAUGUAAA CAUAAAA			
Cell Line	gRNA Sequence		Reads
EATRO 164 BS	AAATATACAAATGTAAGAGAACTGCCGAAAGTAACGTAGAAATGATATTAT _N		35079
TREU 927 PC	AAATATACAAATGTAAGAAAACTATCGAGAGTGATGTAGAAATGATATTAT _N		38432
TREU 667 PC	AAATATACAAATGTAAGAAAACTATCGAGAGTGATGTAGAAATGATATTAT _N		4365

C. ND7 Form C	Predicted mRNA Sequence	Reading Frame
M T T W ST	<p style="text-align: center;">M I S T F M L F L V V F L H L Y R F T F G P Q</p> <p>AUGACUACAUGAUAAGUACAuuuAuGuuAuuuuuGGuAGuuuuuuuACAUuuGuAuCGuuuuACAuuuG*GUCCACAG T:: : : : : : : : _UAAAUGUAGUGAGAAGAUUGC GGAGAA AUGUAAACAUAGCAUUA CA</p>	ORF
Cell Line	gRNA Sequence	Reads
TREU 927 PC	ACATATACGATACAAATGTAAAGAGGCTGTTAGAAGTGATGTAAAT _N	75654

D. ND7 Form D		Predicted mRNA Sequence	Reading Frame
M T T W ST		<p>M I I V S F M L F L V V F L H L Y R F T F G P Q</p> <p>AUGACUACAUGAUAAuuUGUAAuCAuuuAuGuuAuuuuuGGuAGuuuuuuuACAuuuGuAuCGuuuuACAuuuG*GUCCACAG</p> <p>uUAUAUAGUGAAUAUAUAUGGAGACUAUCGAAGAAAUUGUAAAACUAUAUAAA</p>	ORF
Cell Line	gRNA Sequence		Reads
EATRO 164 PC	AAATATACAAATGTAAAGAAGCTATCAGAGGTAATATAAGTGATATAAT _N		240
TREU 927 PC	ATATACACAAATGTAAAGAGACTATCGAGAGTGACATAAGTGATATAAT _N		477
TREU 667 PC	AAATATACAAATGTAAAGAAGCTATCAGAGGTAATATAAGTGATATAAT _N		1152

E. ND7 Form E		Predicted mRNA Sequence	Reading Frame
M T T W ST	M I M T F F M L F L V V F L H L Y R F T F G P Q	AUGACUACAUGAAUAG*ACAuuuuuuuAuGuuAuuuuuuGGuAGuuuuuuuuACAuuuGuAuCGuuuuuACAuuuG*GUCCACAG : # ::: ::: : ::: ::: : :::	ORF
Cell Line	gRNA Sequence	uUAU- UAUAGGAAUACGGUGAGAGUUAUCAGAGAAAUGUAAUAAUUAUA	Reads
EATRO 164 PC	ATATAATAAATGTAAAGAGACTATTGAGAGTGGCATAAGGGATATTAT _N	765	

F. ND7 Form F		Predicted mRNA Sequence	Reading Frame
M T T W ST		<p>M I S T F M L F L V V F L H L Y R F T F G P Q</p> <p>AUGACUACAUGAUAAGUACAuuuAuGuuAuuuuuuGGuAGuuuuuuuuACAuuuGuAuCGuuuuACAuuuG*GUCCACAG</p> <p> ::: ::: ::: ::: ::: ::: ::: ::: :: </p> <p>UAAAUGUAGUGAAGAUGUCGGAGAAAUGUAAACAUAGCAUAUACA</p>	ORF
Cell Line	gRNA Sequence		Reads
TREU 667 PC	ACATATACGATACAAATGTAAAGAGGCTGTTAGAAGTGATGTAAAT _N		6623

H. ND7 Form H		Predicted mRNA Sequence	Reading Frame
M T T W ST		M I S T F Y V I F G S F F T F V S F Y I W S T A	ARF +2
AUGACUACAUGAUAGUA <u>CuuuuuAuGuu</u> AuuuuuGGuAGuuuuuuuACAuuuGuAuCGuuuuACAAuuuG*GUCCACAG			
: :			

J. ND7 Form J		Predicted mRNA Sequence	Reading Frame
M T T W ST		M I S T F I V I F G S F F T F V S F Y I W S T A AUGACUACAUGAUAGUA <u>CAUUUAAU</u> GuuAuuuuuGGuAGuuuuuuuACAuuuGuAuCGuuuuAC <u>AuuuG*</u> GUCCACAG :: :: :: :: :: :: :: :: :: :: „UAAAUAGUAGUGAAGA <u>UUGUCGGAGAA</u> UGUAAACAUA <u>GCAUAUACA</u>	ARF +2
Cell Line	gRNA Sequence		Reads
TREU 927 PC	ACATATACGATACAAATGTAAAGAGGCTGTTAGAAGTGATGATAAAT _N		251

Figure 2 (extended data): Predicted alternative editing of the 5' end of ND7.