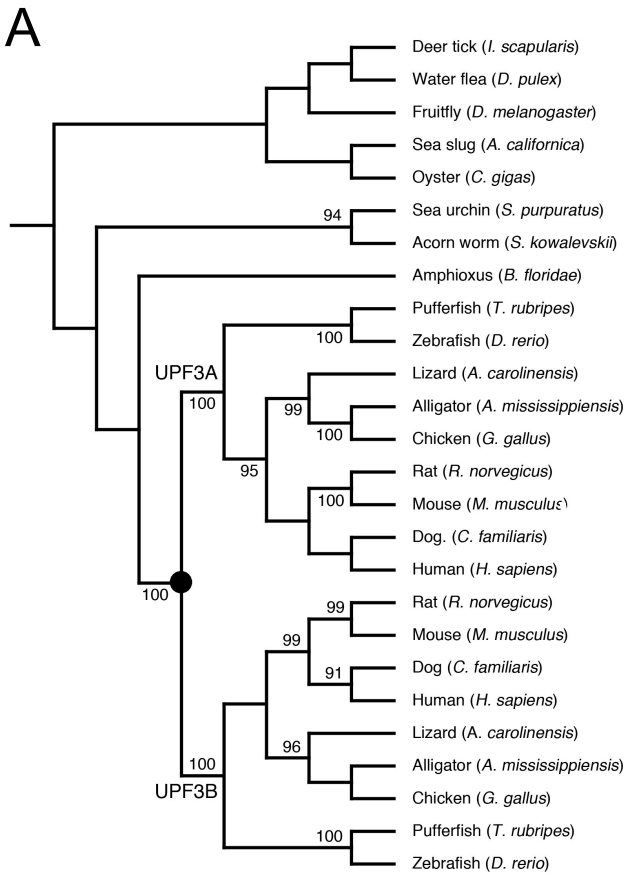
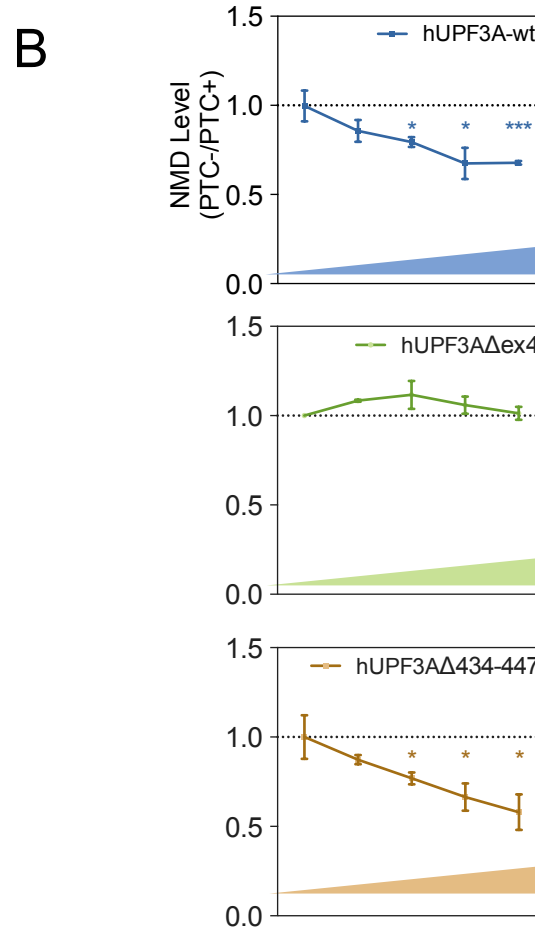
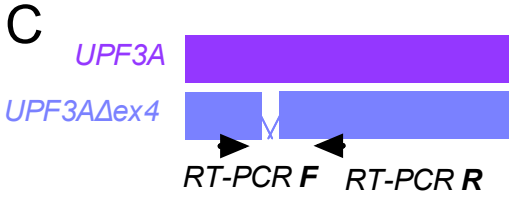
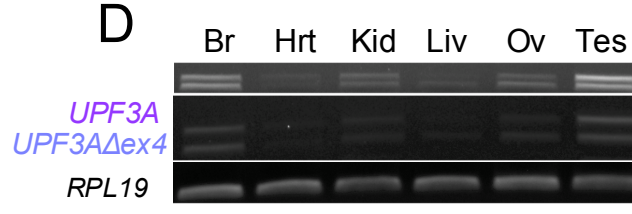
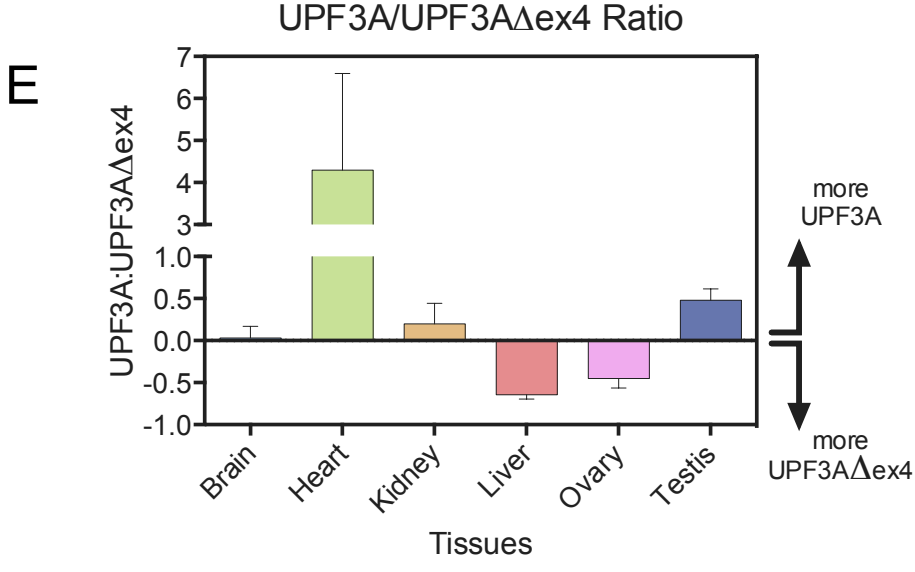
Figure S3


A
Deer tick (I. scapularis)
Water flea (D. pulex)
Fruitfly (D. melanogaster)
Sea slug (A. californica)
Oyster (C. gigas)
Sea urchin (S. purpuratus)
Acorn worm (S. kowalevskii)
Amphioxus (B. floridae)
Pufferfish (T. rubripes)
Zebrafish (D. rerio)
Lizard (A. carolinensis)
Alligator (A. mississippiensis)
Chicken (G. gallus)
Rat (R. norvegicus)
Mouse (M. musculus)
Dog. (C. familiaris)
Human (H. sapiens)
Rat (R. norvegicus)
Mouse (M. musculus)
Dog (C. familiaris)
Human (H. sapiens)
Lizard (A. carolinensis)
Alligator (A. mississippiensis)
Chicken (G. gallus)
Pufferfish (T. rubripes)
Zebrafish (D. rerio)
UPF3A
UPF3B
94
100
100
99
100
95
100
100
99
99
91
96
100
100


B
NMD Level (PTC-/PTC+)
hUPF3A-wt
hUPF3AΔex4
hUPF3AΔ434-447
1.5
1.0
0.5
0.0
*
***


C
UPF3A
UPF3AΔex4
RT-PCR F
RT-PCR R


D
Br
Hrt
Kid
Liv
Ov
Tes
UPF3A
UPF3AΔex4
RPL19


E
UPF3A/UPF3AΔex4 Ratio
UPF3A:UPF3AΔex4
7
6
5
4
3
1.0
0.5
0.0
-0.5
-1.0
Brain
Heart
Kidney
Liver
Ovary
Testis
Tissues
more UPF3A
more UPF3AΔex4