

Fig. S1

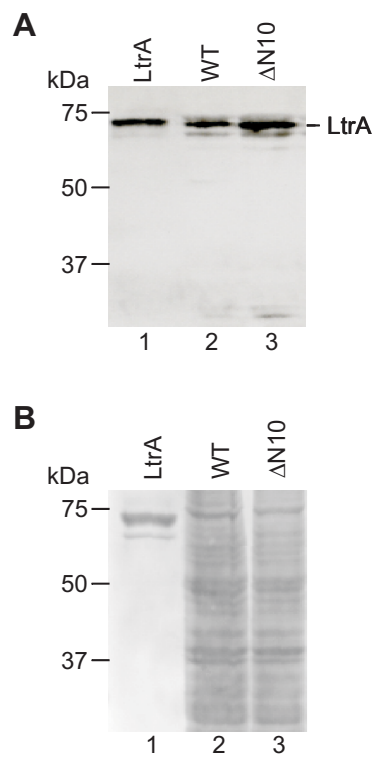


Fig. S2

```

|-----RT-0-----
MKPTMAILER ISKNSQENID EVFTRLRYL LRPDIYYVAY QNLYSNKGAS TKGILDDTAD 60
L1 11 R 2 11KN K 1 2 N H 2F 1SI I TP II F2E1
A G ME I N E AVH
E

---| |-----RT-1-----|-----RT-2-----
GFSEEEKIKKI IQSLKDGTTY PQPVRRMYIA KKNSKKMRPL GIPTFTDKLI QEAVRIILES 120
2 N1 IK2M 21 V S S 1 1SL1V2 1P E* 1 112N 1 MN V 2 M
D GV R * C F RL F RT S
N S T N

---| 2a |-----RT-3-----
IYEPVFEDVS HGFRPQRSCH TALKTIKREF GGARWFVEGD IKGCFDNIDH VTLIGLINLK 180
1V GE L VG1 NGY T 2VN1*Y 1C 1 1MD VN ES 1 I F 1P
V L V GD G L A V R I A IF F
P IK *

---| 3a |-----RT-4-----|
IKDKMKSQLI YKFLKAGYLE NWQYHKTYSG TPQGGILSPL LANIYLHELD KFVLQLKMKF 240
EVTN*NL N I ** 1R 1I S 2 I1 H VY YD* A* I *ML
R R LR C D S S F
T L G S
V

4a
DRESPERITP EYRELHNEIK RISHRLKKLE GEEKAKVLE YQEKRRRLPT LPCTSQTNKV 300
I 1ST2A QY1 N 11Y 1RW * 1* E1RD * 1 NI HR H2 11H1Y1
C DG S S S PM DV I ID IS S L S I R
K F N

|-----RT-5-----| |-----RT-6-----| |---RT-7-
LKYVRYADDF IISVKGSKED CQWIKEQLKL FIHNKLMEL SEEKTLITHS SQPARFLGYD 360
E1LQHS YV T1IV N HG T *2 H F N I * IV N1 11 G LSD LQ CN
R E LR N E TI T *
R

| 7a |-----
IRVRRSGTIK RSGKVKKRTL NGSVELLIPL QDKIRQFIFD KKIAIQKKDS SWFPVHRKYL 420
111M 11AV 1YSI RRS11 KGN2H2I12F VY P Y LV E1 1MIN G 1 S1I *C1
TQI V * Q E GKR TT E T TLR L R
L * P
F

-----X domain-----
IRSTDLEIIT IYNSELRGIC NYYGLASNFN QLNIFAYLME YSCLKTIASK HKGTLSKTIS 480
11 I 1 I D1111Y K 1SI1 1 F1 CTCFLD FNR1N1K11I 1 2 2
R F HV Y C QT K I SMS N D IHP I
T LV R
S

-----D domain-----
MFKDGSWSWG IPYEIKQGKQ RRYFANFSEC KSPYQFTDEI SQAPVLYGYA RNTLENRLKA 540
KYN ND1G FQC Q C1R SCH 1S R I 1 RSK D N T1A F F1 WY11 TM*1V
LI C SN N C F R L L V H I I F
R R
E

|-----En domain-----|
KCCELGTSD ENTSYEHHV NKVKNLKGKE KWEMAMIAKQ RKTLVVCFHC HRHVIHKKH 599
11V1 1 N F1 2L1D K 1ES111 R IV* S11F IQ1 P 11Y1
FG H N Q G I V
G D
S Y

```

Fig. S3

```

|-----RT-0-----|
|||||
MKPTMAILER ISKNSQENID EVFTRLYRYL LRPDIYYVAY QNLYSNKGAS TKGILDDTDAD 60
TN 4I11 1K T S1 122 12Y G21C1 32S2T2C1 K P 1121 1E M 1N11N
P TT K DT G KI K C H C HM R T A VN E
I Q K H H A H G

---| |-----RT-1-----|-----RT-2-----|
|||||
GFSEEEKIKKI IQSLKDGTTY P QPVRMYIA KKNSKKMRPL GIPTFTDKLI QEAVRIILES 120
DLEK1 MR4 12 1V11 C 1 1 TH12 P12I121 1N P1A 232 HK3M VV G1
IN K V R H Q KH V E KSS YI T
Y L S SH L
V T G
I

---| 2a |-----RT-3-----|
|||||
IYEPVFEDVS HGFRPQRSCH TALKTIKREF GGARWFVEGD IKGCFDNIDH VTLLIGLINLK 180
3111 111M 1 S32L231 A 3 A1111 3 T1 L1 3 1S 12 13 12111F S1R
V LKN LRL KV S S M I N A E
G Q IK A D
G

---| 3a |-----RT-4-----|
|||||
IKDMKMSQLI YKFLKAGYLE NWQYHKYSG TPQGGILSPL LANIYLHELD KFVLQLKMKF 240
NR LNINR1 HRI 1T31 2 D CL 1111 11L11T LF 41 QF11S 1132 1IE
E I L H IL N G S E R R V G R T
L H C

4a
DRESPERITP EYRELHNEIK RISHRLKKLE GEEKAKVLE YQEKRKRLPT LPCTSQTNKV 300
Q12 2TLP 1CQDFR21 1 211YH11R 3 1K221E1124 C1K HNG111 V YAT 5
QG KGT V HYSG K P V K T GFSK CE LA C I I
N G P F V G S S
Q

|-----RT-5-----| |-----RT-6-----| |---RT-7---|
LKYVRYADDF IISVKGSKED CQWIKQLKL FIHNKLMEL SEEKTLITHS SQPARFLGYD 360
1R 2 NG 1 A1 1 11 2L V GR122 11RD231 1 11GR2F11 3 L1 HS 1N
I G N N KV S K R DN N NQ EI VI S
D S V A

| 7a |-----|
IRVRRSGTIK RSGKVKKRTL NGSVELLIPL QDKIRQFIFD KKIAIQKKDS SWFPVHRKYL 420
V22 1 R R Q2D13IR1 1 21G5 12 1 13R11 2V12 R2L1 RR2 1 1 11 R 3L1
I FSI S Y I F R R L V M V N G T LS
G I

-----X domain-----
IRSTDLEIIT IYNSELRGIC NYYGSLNFN QLNIFAYLME YSCLKTIASK HKGTLSKTIS 480
TCL1VIK 11 1F 11 GE1 2S 3 N1 1 1 L11 2 11 112121I R 111RI3F
TS G S T R V G EPTTF V
N K
V

-----D domain-----
MFKDGSQSWG IPYEIKQGGK RRYFANFSEC KSPYQFTDEI SQAPVLYGYA RNTLENRLKA 540
12 1 D1 1 1 M11211 1 TS1T1S 11 M VL 1 1MHSF2 111P G 1V
R E L S MRS R C DY NH R A*NDC SIF RV
L H F G A E
*

|-----En domain-----|
KCCELCGTSD ENTSYEIHV NKVKNLKGKE KWEMAMIAKQ RKTIVVCFHC HRHVIHKKH 599
11 11S3111 1D C1TRR1 D121Y1 DND IR1TTT31NH 21PILRY W RCD3V122R
ES ** IPG G H YQA YI RS *V * G VS** RI G L QM NE
IR * Y R * T * RA R
R N
*
```

Fig. S4

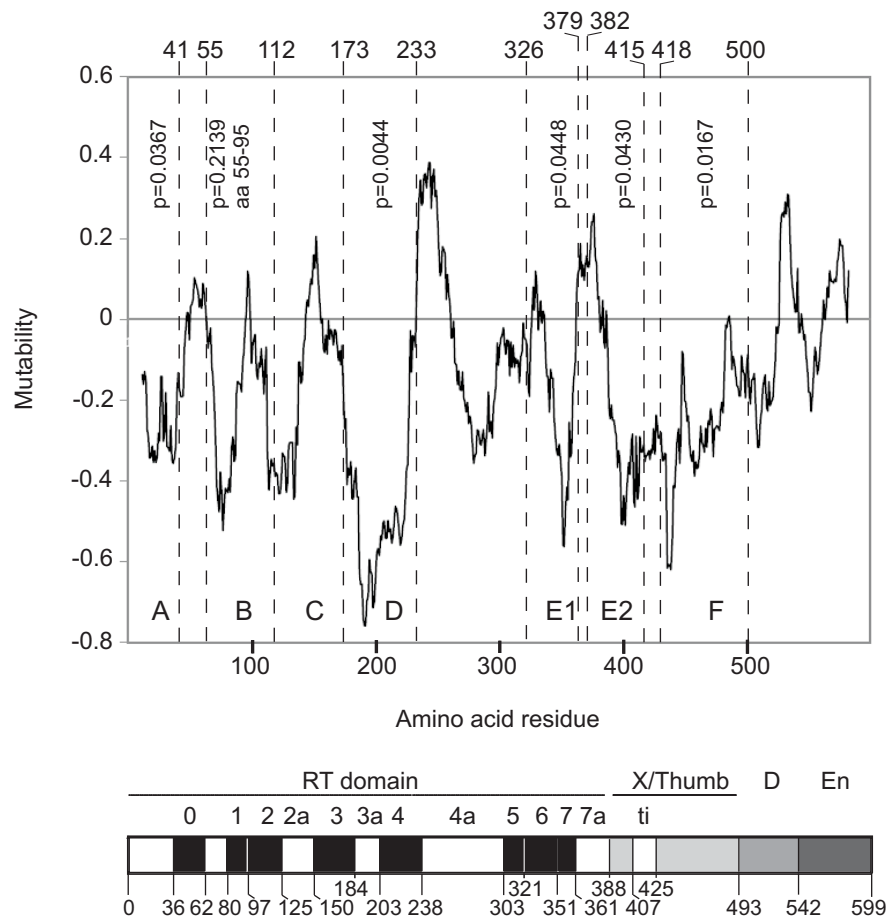


Fig. S5

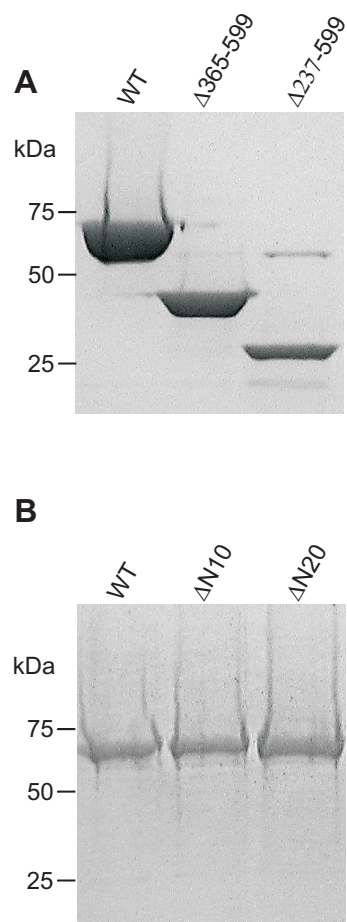


Fig. S6

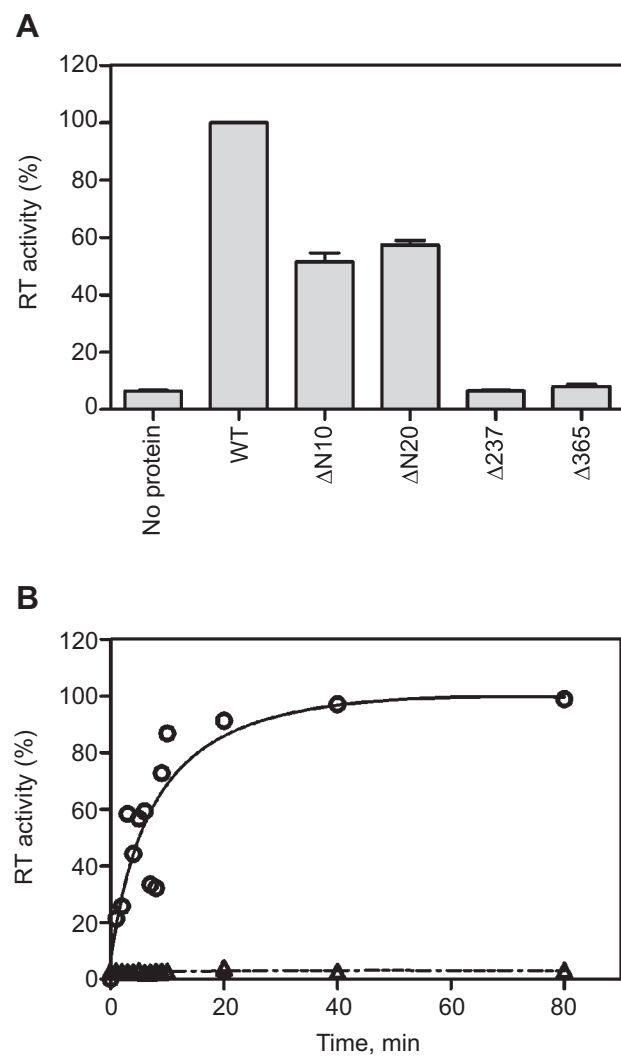


Fig. S7

