**Filename Construct (see Table S2 in paper)**

WT-NLS WT-NLS

S2T -23S+23T

RK2 -6R+6K

RK1 -3R+3K

NQ2G -14N-4Q+18G

N2Q -14N+14Q

M6R -6R

M4D -4D

M10RAllY -12F+12Y-10R

M10R -10R

G30SALLY allY30GtoS

G30SALLF allF30GtoS

G30S -30G+30S (WT30GtoS)

G20SALLY allY20GtoS

G20SALLF allF20GtoS

G20S -20G+20S (WT20GtoS)

FUS FUS-LCD

F3Y -9F+3Y

F2Y -8F+4Y

F15Y -9F+6Y

DHEX -SYNDFG

ARO1 -4F-2Y

ALLY -12F+12Y (allY)

ALLF +7F-7Y (allF)

8D +8D

7R12DM10F -10F+7R+12D

7R12D +7R+12D

7R10D +7R+10D

7K12D +7K+12D

4D +4D

2R +2R

12D +12D

WT+NLS WT+NLS

homopolymer homopolymer