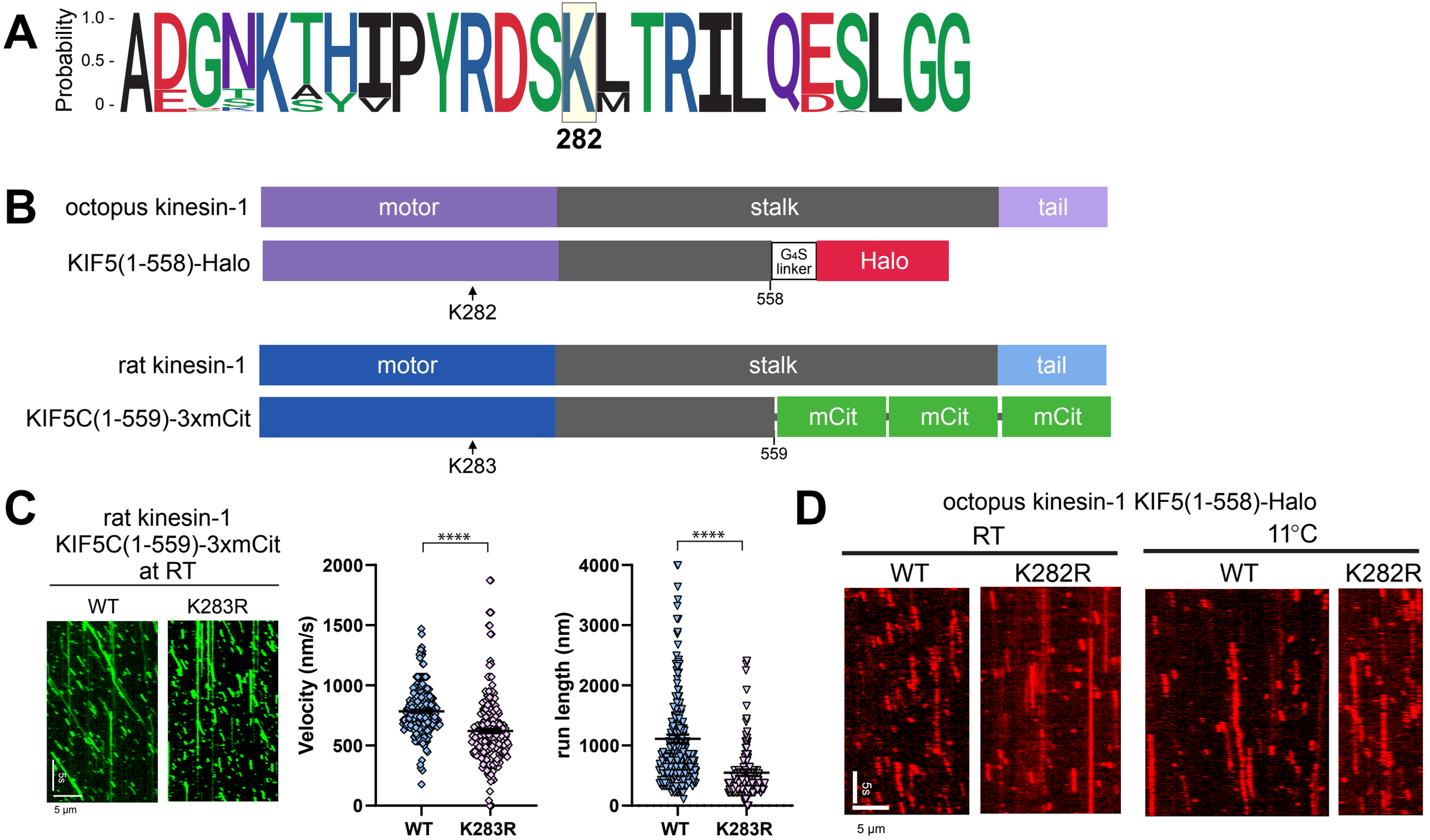
A
Probability
1.0
0.5
0
282
B
octopus kinesin-1
motor
stalk
tail
KIF5(1-558)-Halo
G4S linker
Halo
K282
558
rat kinesin-1
motor
stalk
tail
KIF5C(1-559)-3xmCit
mCit
mCit
mCit
K283
559
C
rat kinesin-1
KIF5C(1-559)-3xmCit
at RT
WT
K283R
5 s
5 µm
****
Velocity (nm/s)
2000
1500
1000
500
0
WT
K283R
****
run length (nm)
4000
3000
2000
1000
0
WT
K283R
D
octopus kinesin-1 KIF5(1-558)-Halo
RT
11°C
WT
K282R
WT
K282R
5 s
5 µm