

Figure S1

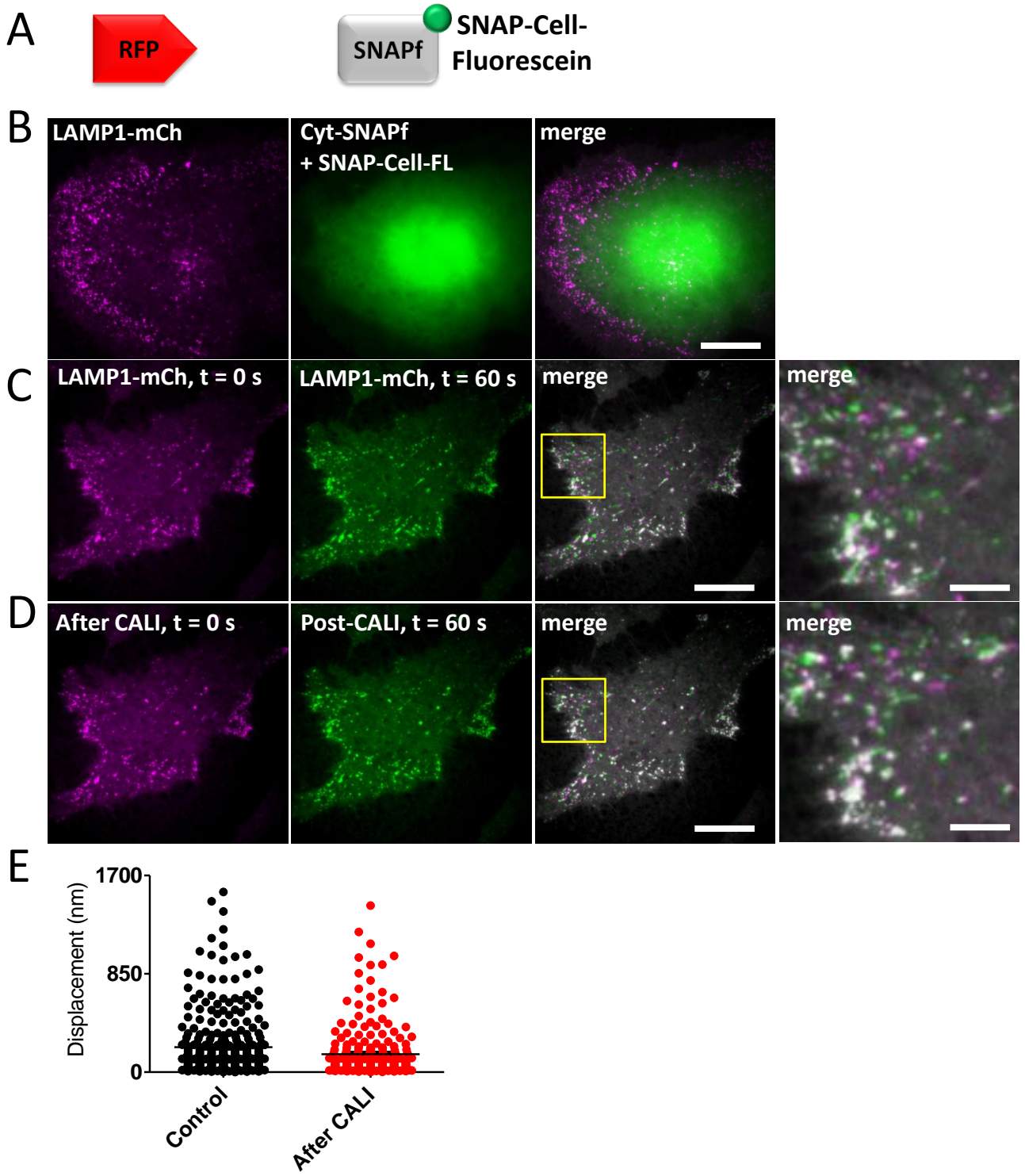


Figure S2

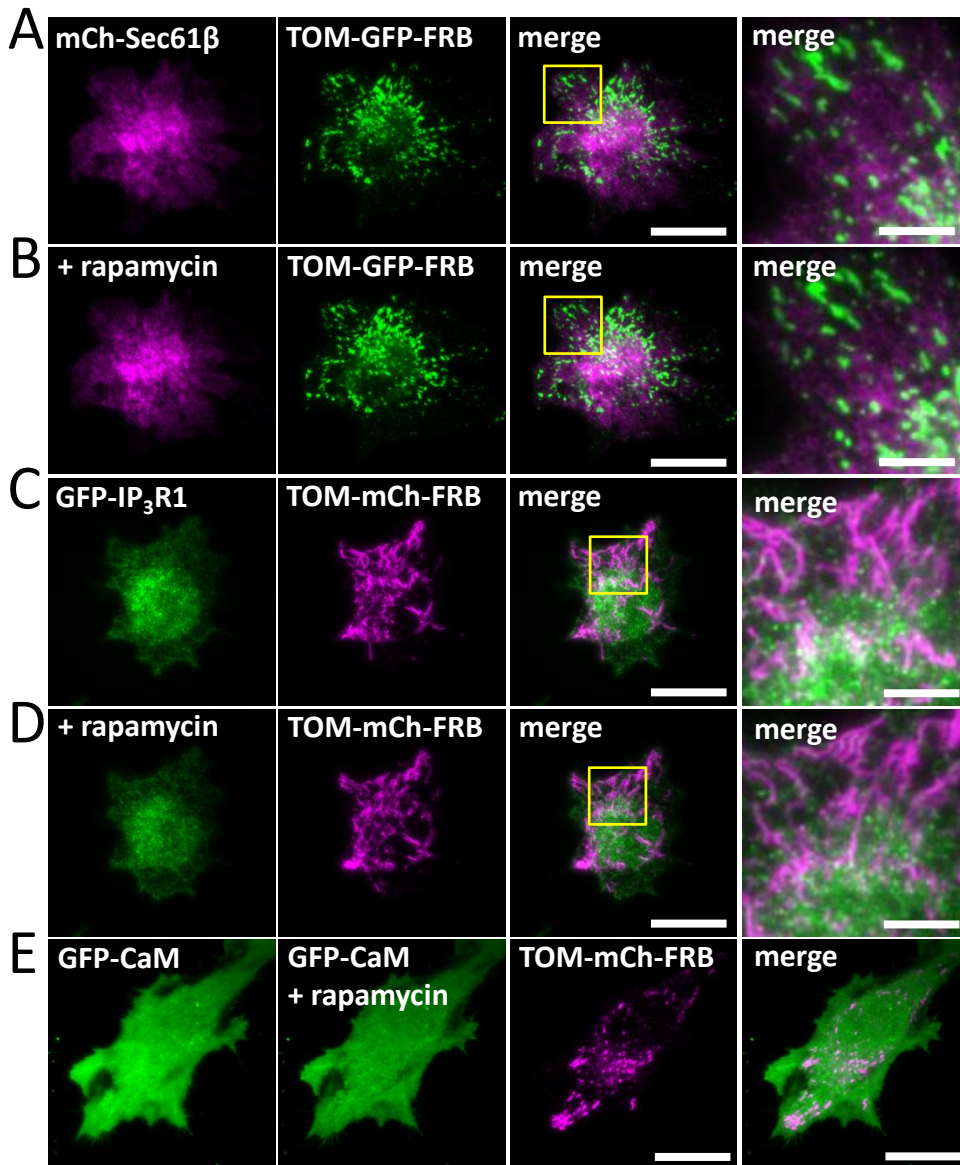


Figure S3

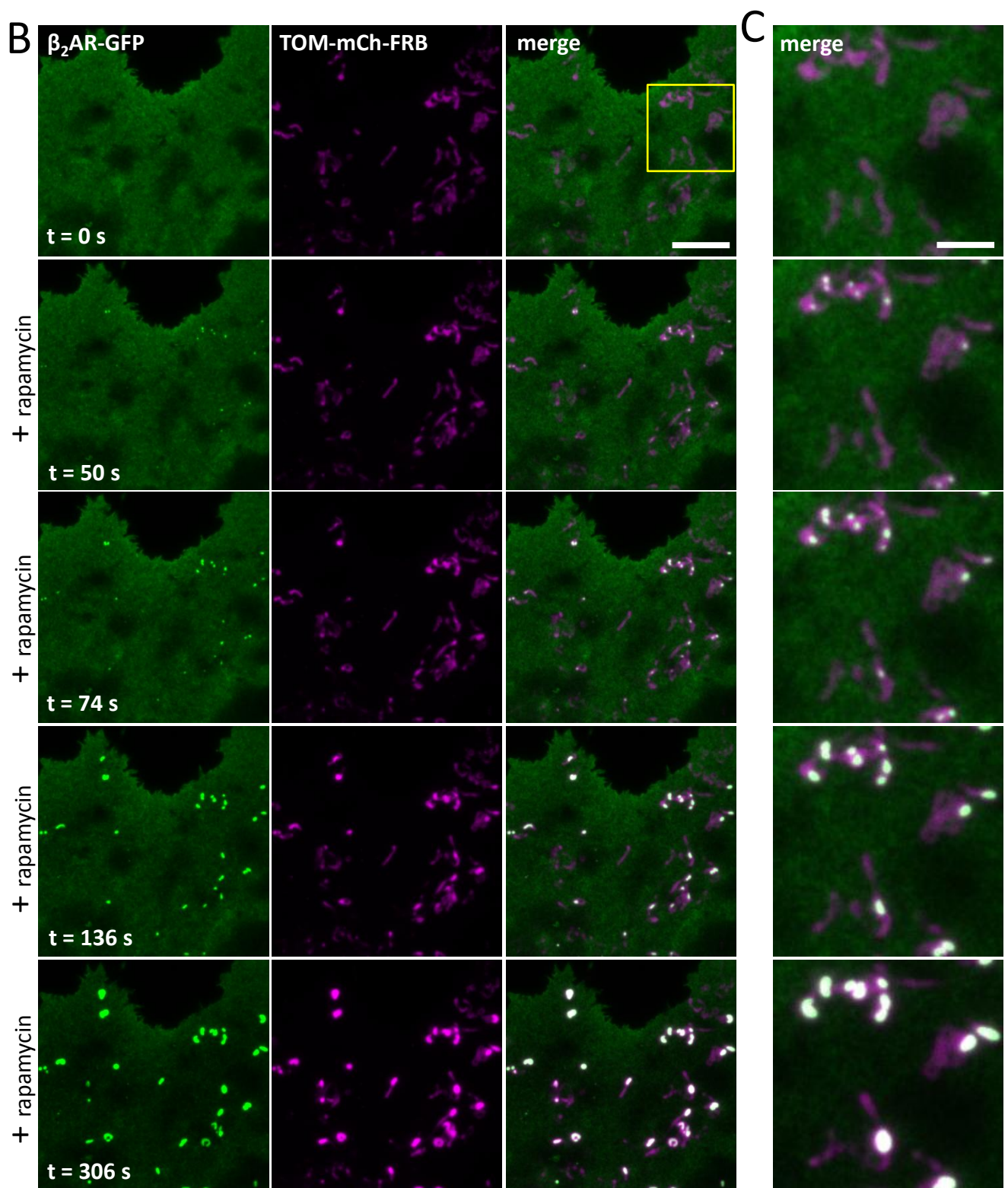


Figure S4

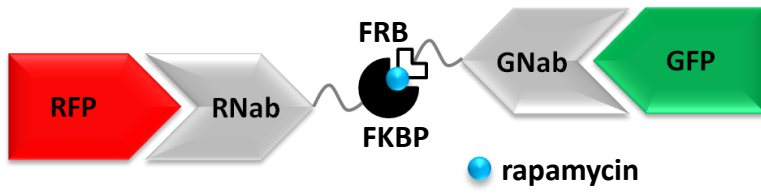
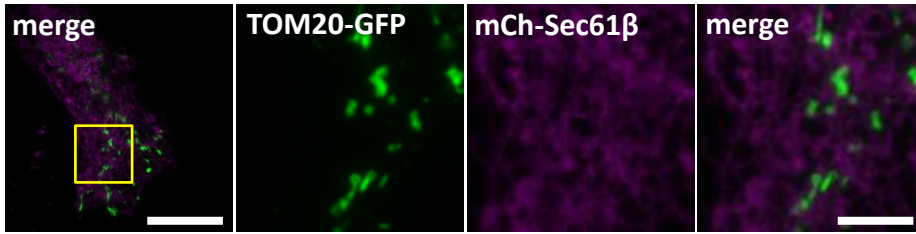
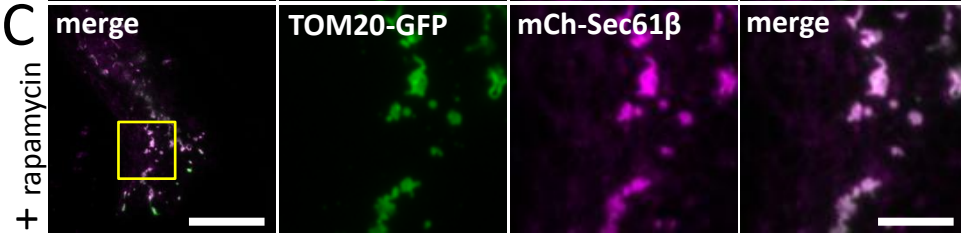
A**B****C**

Figure S6. DNA sequences encoding the nanobodies used.

ATG – start codon of region encoding nanobody

NANOBODY – region encoding nanobody

LINKER – region encoding flexible linker between nanobody and functional module

TXX – stop codon

GNab

AAGCTTGCCACC**ATG**GCTCAGGTGCAGCTGGTGAATCTGGCGGCAGACTGGTGCAGGC
CGGCGATAGCCTGAGACTGTCTTGTGCCGCCAGCGGCAGAACCTTCAGCACATCTGCCAT
GGCCTGGTTCAGACAGGCCCTGGCCGCGAGAGGGAATTTGTGGCCGCCATCACATGGA
CCGTGGGCAACACCATCCTGGGCGACAGCGTGAAGGGCCGTTACCATCAGCCGGGAC
AGAGCCAAGAACACCGTGGACCTCCAGATGGACAACCTGGAACCCGAGGACACCGCCGT
GTACTACTGCTCCGCCAGATCCAGAGGCTACGTGCTGTCCGTGCTGCGGAGCGTGGACAG
CTACGATTATTGGGGCCAGGGCACCCAAGTGACCGTGTCTGGCGGCGGAGGAAGC**GGAG**
GCGGAGGATCTGGGGGAGGCGGCAGTGGCGGAGGGGATCTGGATCC

RNab

AAGCTTGCCACC**ATG**GCTCAGGTGCAGCTGGTGAAGCGGCGGCTCTCTGGTGCAGCC
TGGCGGATCTCTGAGACTGAGCTGTGCCGCCAGCGGCAGATTTGCCGAGAGCAGCAGCA
TGGGCTGGTTCAGACAGGCCCTGGCAAAGAACCGGAGTTCGTGGCCGCCATCTCTTGG
AGCGGCGGAGCCACCAATTACGCCGATAGCGCCAAGGGCCGTTACCCCTGAGCCGGGA
CAACACCAAGAACACCGTGTACCTGCAGATGAACAGCCTGAAGCCGACGACACCGCCG
TGTACTACTGCGCCGCAACCTGGGCAACTACATCAGCAGCAACCAGCGGCTGTACGGC
TACTGGGGCCAGGGAACACAAGTGACCGTGTCCAGCCCTTTCACA**GGCGGCGGAGGATC**
TGGCGGAGGCGGATCTGGGGGCGGAGGCTCTGGATCC

GNab-RNab

AAGCTTGCCACC**ATG**GCTCAGGTGCAGCTGGTTGAATCTGGCGGCAGACTGGTTCAGGCC
GGCGATTCTCTGAGACTGTCTTGTGCCGCCAGCGGCAGAACCTTTAGCACATCTGCCATG
GCCTGGTTCAGACAGGCCCTGGAAGAGAACGGGAATTTGTGGCCGCCATCACCTGGAC
CGTGGGCAATACCATCCTGGGCGATAGCGTGAAGGGCAGATTCACCATCAGCCGGGACA
GAGCCAAGAACACCGTGGACCTCCAGATGGACAACCTGGAACCTGAGGACACCGCCGTG
TACTACTGCTCCGCTAGAAGCAGAGGCTACGTGCTGTCCGTGCTGAGAAGCGTGGACAG
CTACGATTATTGGGGCCAGGGCACCCAAGTGACCGTTTCTGGTGGCGGAGGATCTGGCG
GAGGTGGAAGCGGCGGAGGCGGTAGCGGAGGTGGTGGATCTGGATCCATGGCCAGGTC
CAGCTCGTGAAGAGTGGCGGATCTCTGGTTCAACCTGGCGGAAGCCTGAGACTGAGCTG
TGCCGCTTCTGGCAGATTTGCCGAGAGCAGCAGCATGGGCTGGTTTAGGCAAGCCCCAG
GCAAAGAGAGAGAGTTCGTCGCCGCCATCTCTTGGAGTGGCGGAGCCACCAATTACGCC
GATTCTGCCAAAGGCCGTTACCCCTGAGCAGAGACAACACAAAGAATAACGGTGTATCT
CCAGATGAACTCCCTGAAGCCAGACGATACAGCCGTGTATTATTGCGCCGCCAACCTGG
GCAACTACATCAGCAGCAACCAGCGGCTGTACGGCTACTGGGGACAGGGAACACAAGTC
ACAGTGTCTAGCCCCTTACC**TGA**CTGCAGATATC