

Table S1: Summary of CHMP fusion protein sequence

Construct name	Sequence
CHMP2A-NS3	CHMP2A(1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag
CHMP3 -NS3	CHMP3 (1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag
CHMP4B-NS3	CHMP4B(1-224)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag
CHMP2A-NS3-blue	CHMP2A(1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xxxx-mTurquoise(1-238)
CHMP3 -NS3-blue	CHMP3 (1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xxxx-mTurquoise(1-238)
CHMP4B-NS3-blue	CHMP4B(1-224)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xxxx-mTurquoise(1-238)
CHMP2A-NS3-green	CHMP2A(1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
CHMP3 -NS3-green	CHMP3 (1-222)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
CHMP4B-NS3-green	CHMP4B(1-224)-xxxx-DEMEECSQHL-xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
CHMP2A-NS3mut-green	CHMP2A(1-222)-xxxx- GSMGSGSQHL -xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
CHMP3 -NS3mut-green	CHMP3 (1-222)-xxxx- GSMGSGSQHL -xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
CHMP4B-NS3-green	CHMP4B(1-224)-xxxx- GSMGSGSQHL -xx-NS3/4A(1-197)-xx-Flag-xx-mNeonGreen(1-236)
xxxx represents linker amino acids.	