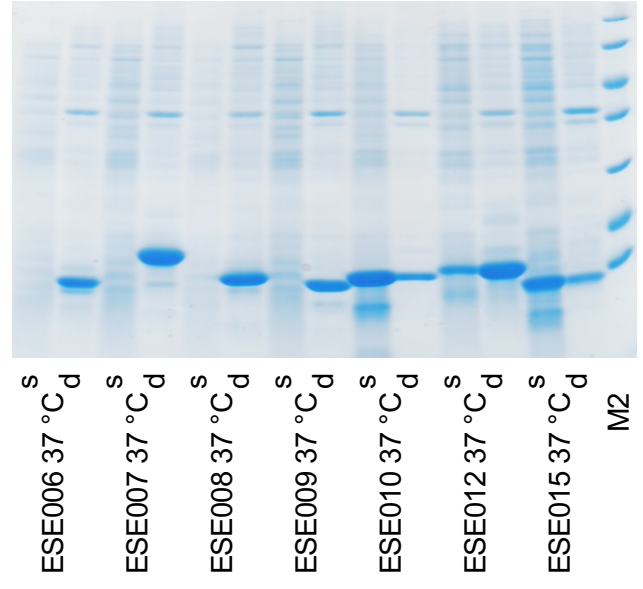
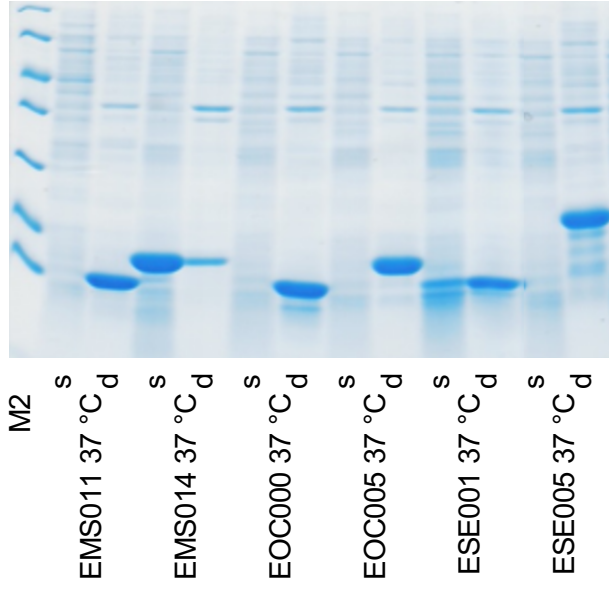
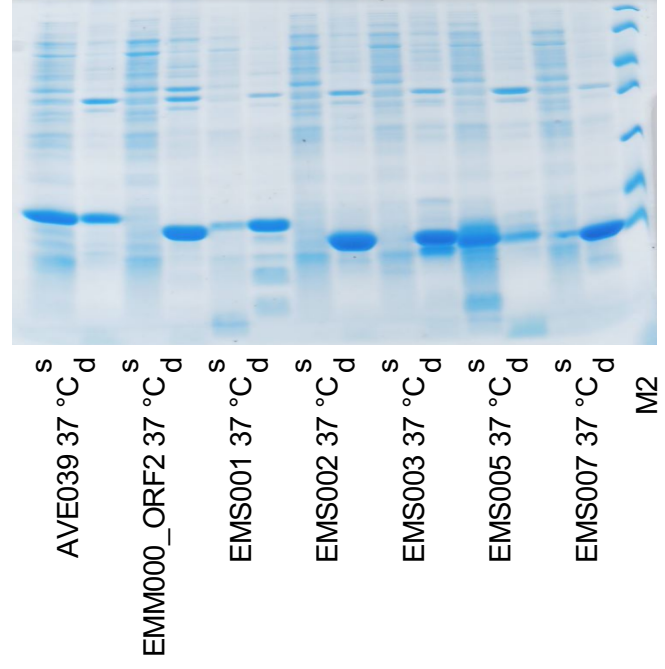
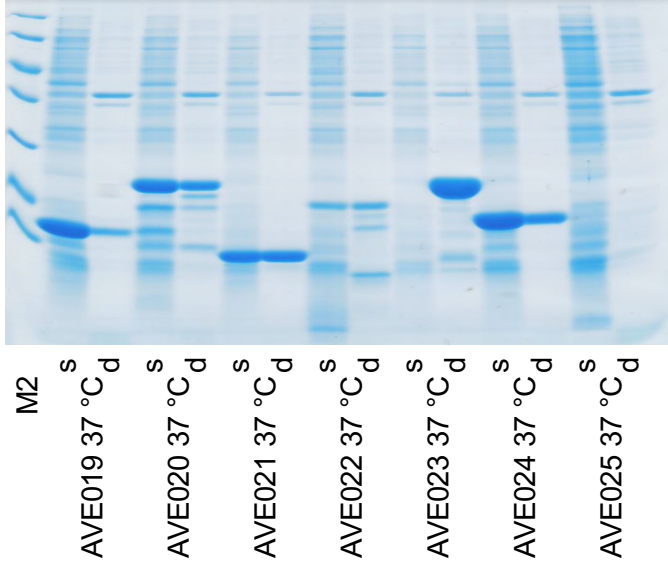
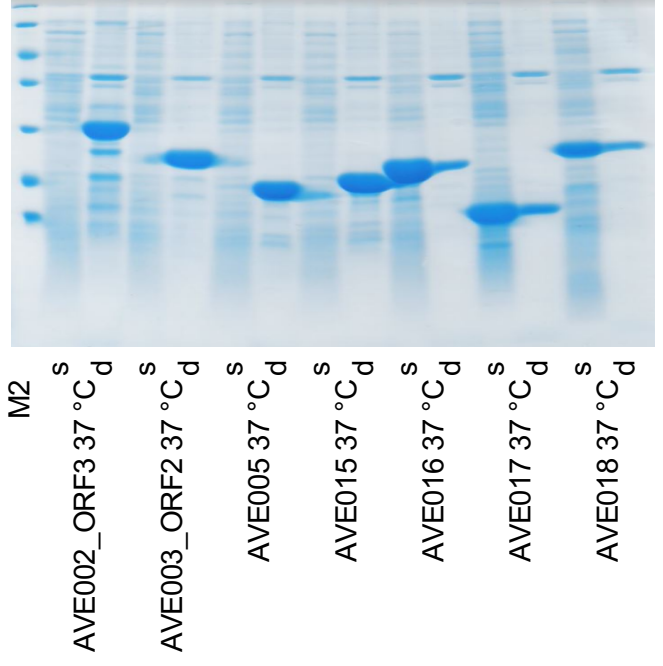
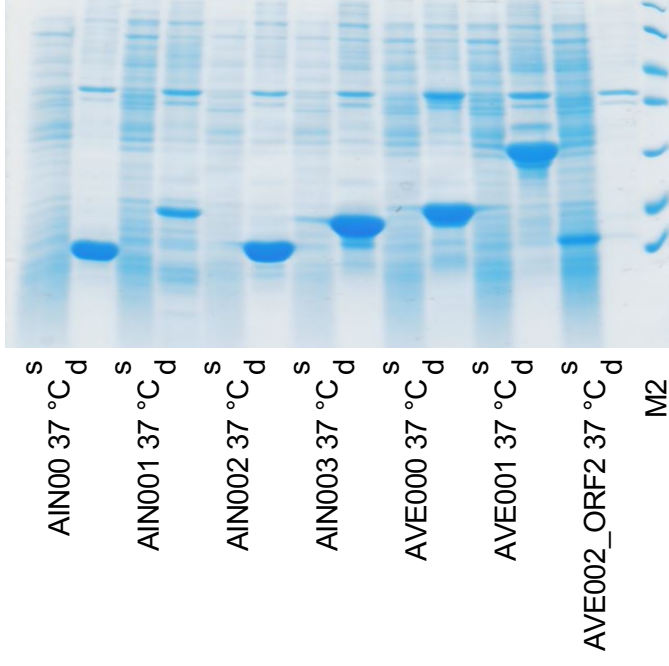
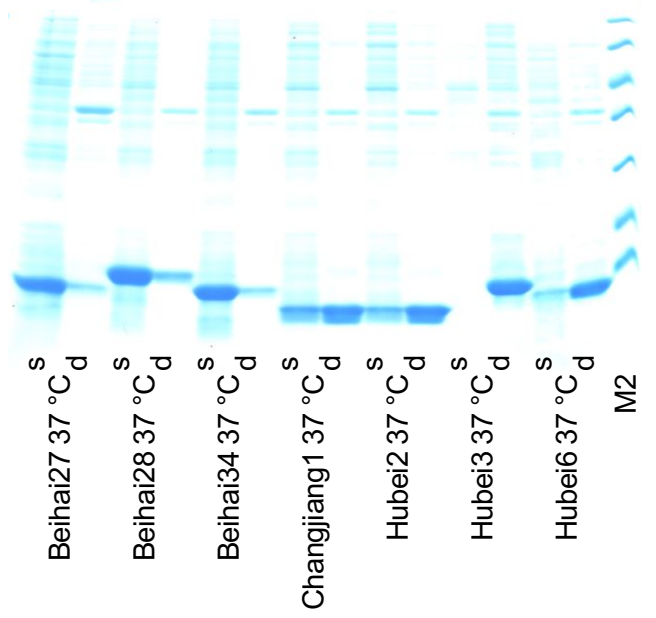
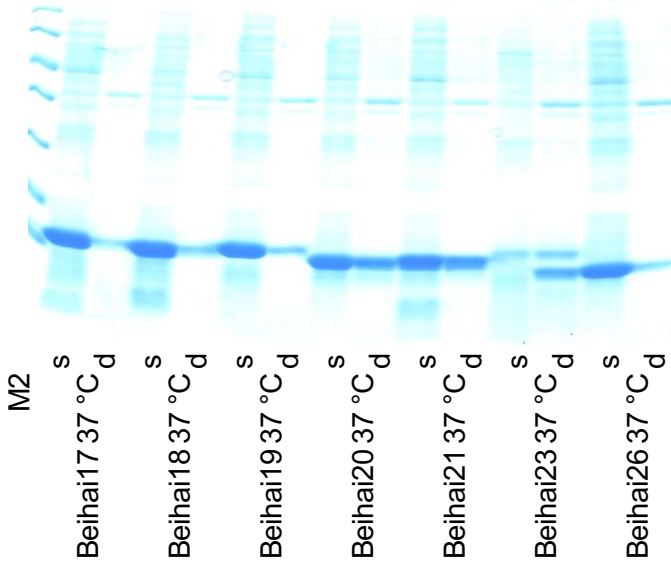
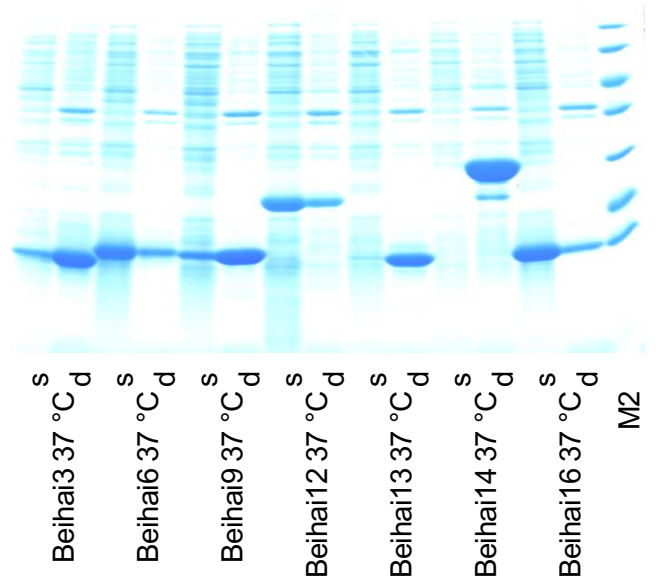
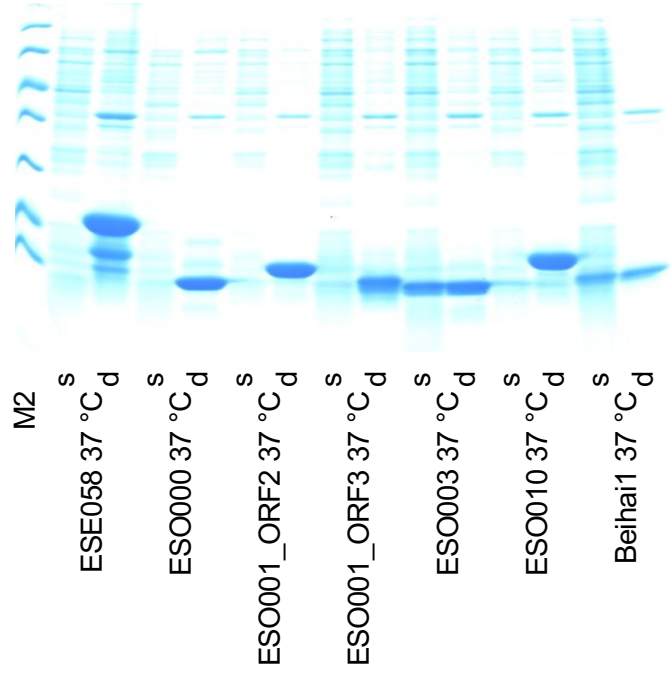
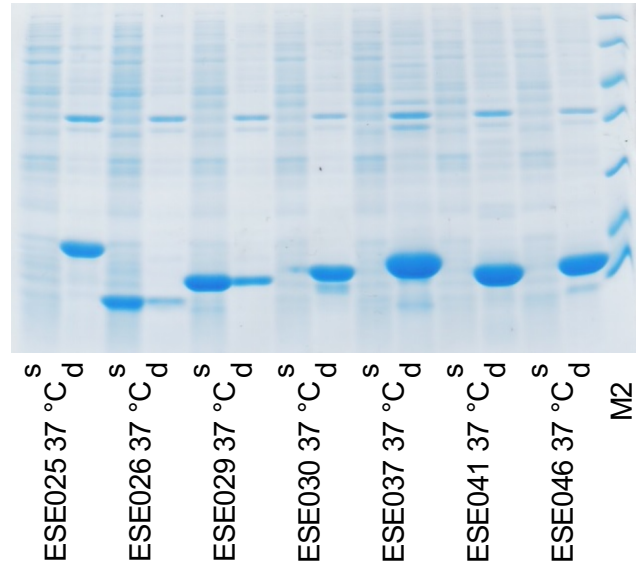
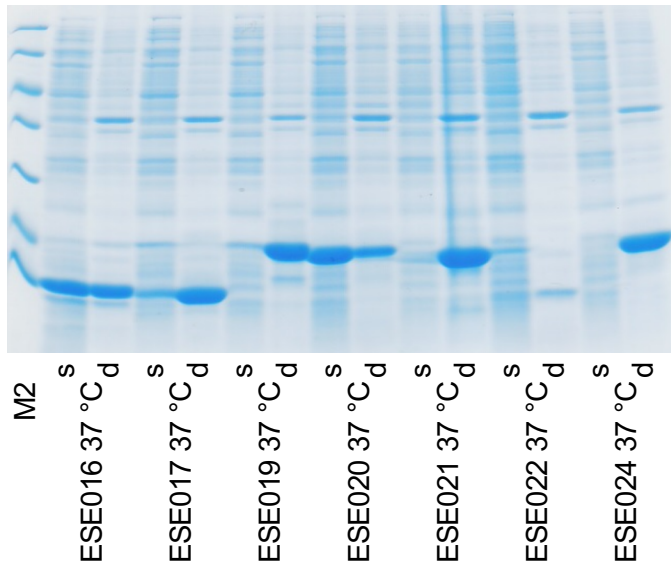
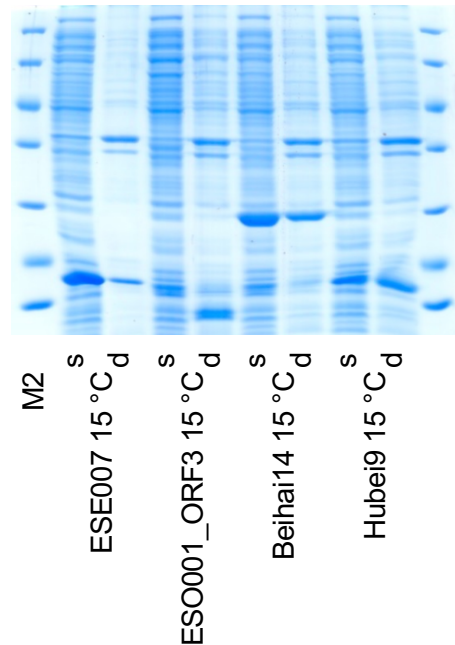
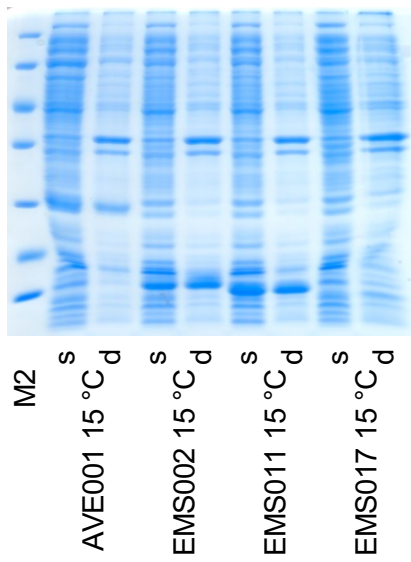
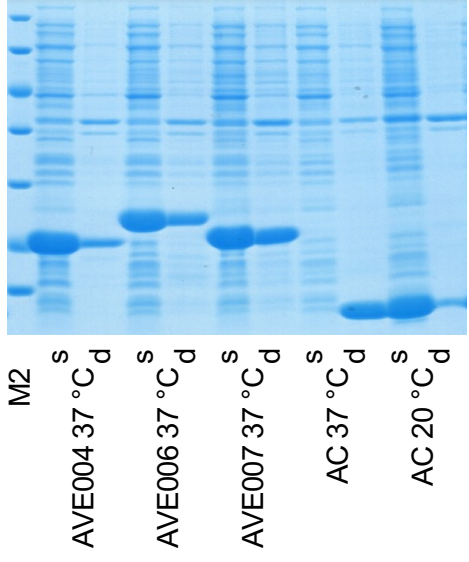
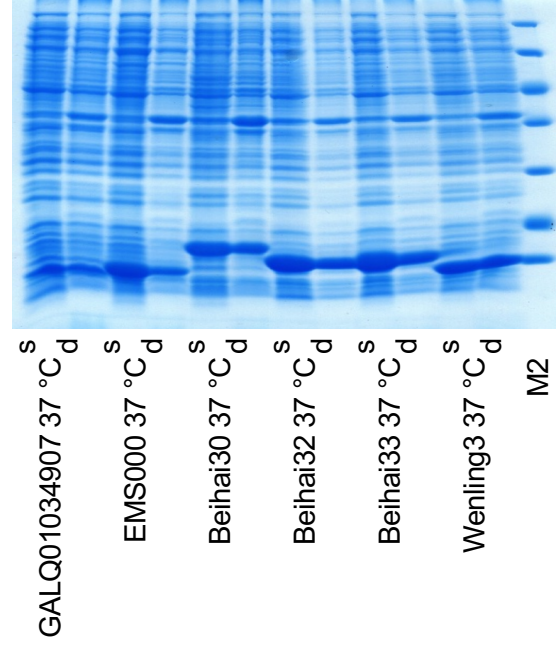
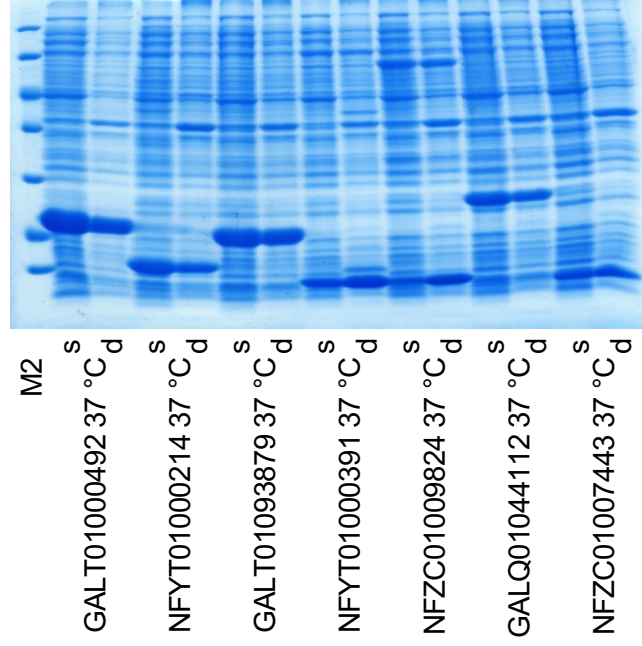
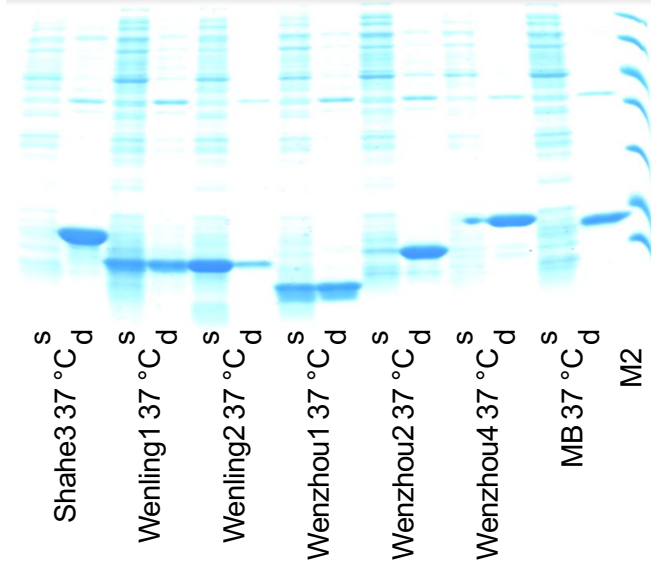
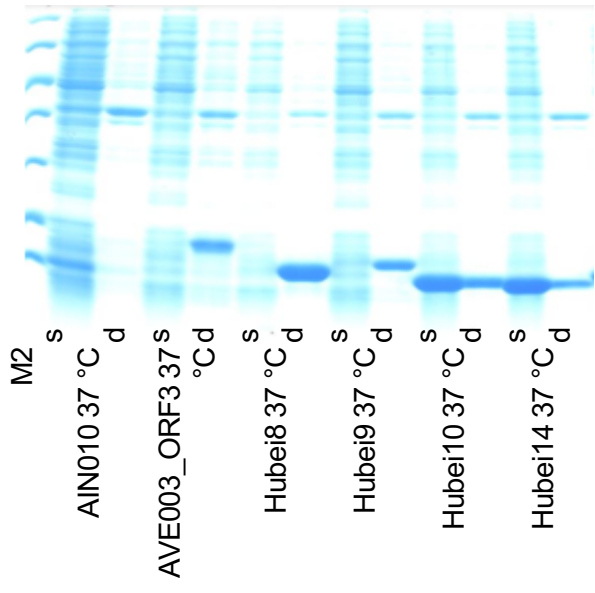
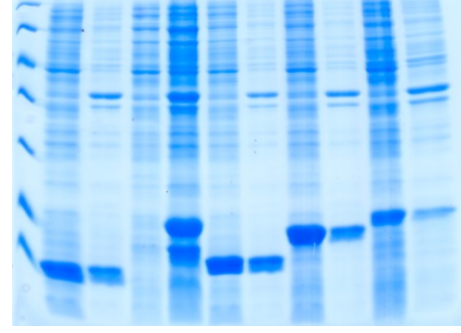


Figure S1. SDS-PAGE analysis of the production level of the metagenomic ssRNA phage CPs. The samples represent total cellular protein content four hours after the CP expression was induced at 37 °C. 1 and M2 – protein molecular weight markers (M1: bands of 10, 15, 25, 35, 40, 55, 70, 100, 130 and 180 kDa; M2: bands of 14, 18, 25, 35, 45, 66 and 116 kDa).

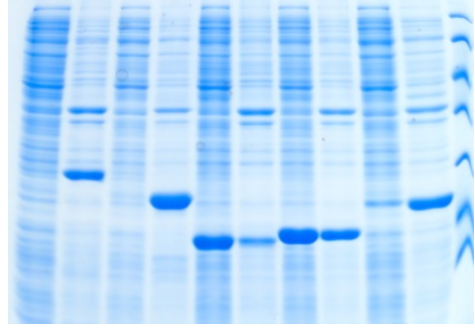




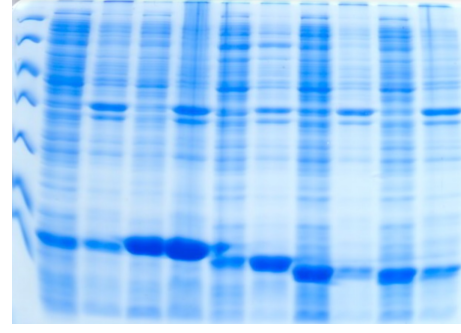




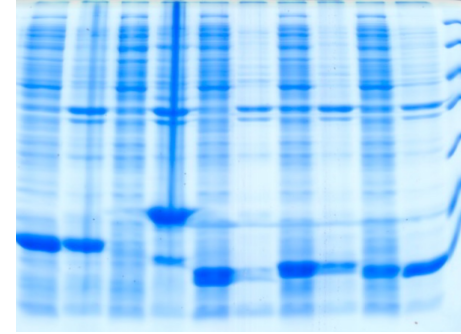
M2
AIN000 15 °C
AIN001 15 °C
AIN002 15 °C
AIN003 15 °C
AVE000 15 °C



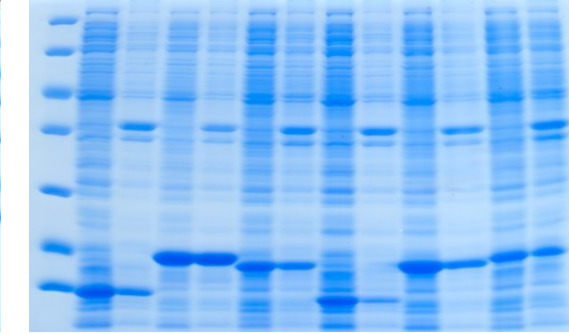
AVE002_ORF3 15 °C
AVE003_ORF2 15 °C
AVE005 15 °C
AVE015 15 °C
AVE023 15 °C



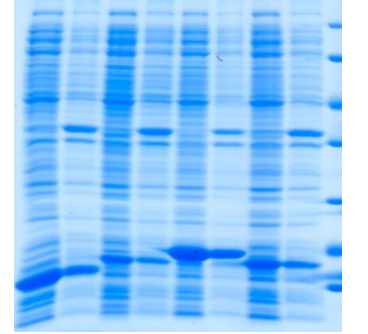
EMM000_ORF2 15 °C
EMS001 15 °C
EMS003 15 °C
EMS007 15 °C
EOC000 15 °C



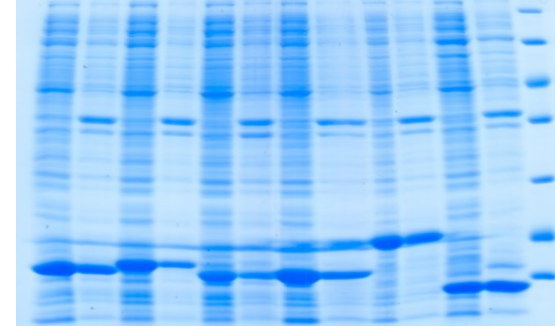
EOC005 15 °C
ESE005 15 °C
ESE006 15 °C
ESE008 15 °C
ESE009 15 °C



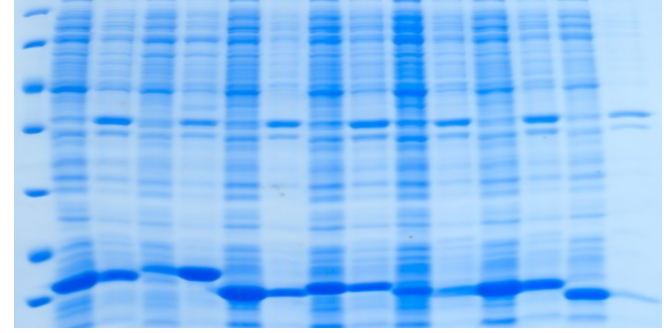
M2
M2
ESE017 15 °C
ESE019 15 °C
ESE021 15 °C
ESE022 15 °C
ESE024 15 °C
ESE025 15 °C



Hubei8 15 °C
Shahe3 15 °C
Wenzhou4 15 °C
MB 15 °C
M2

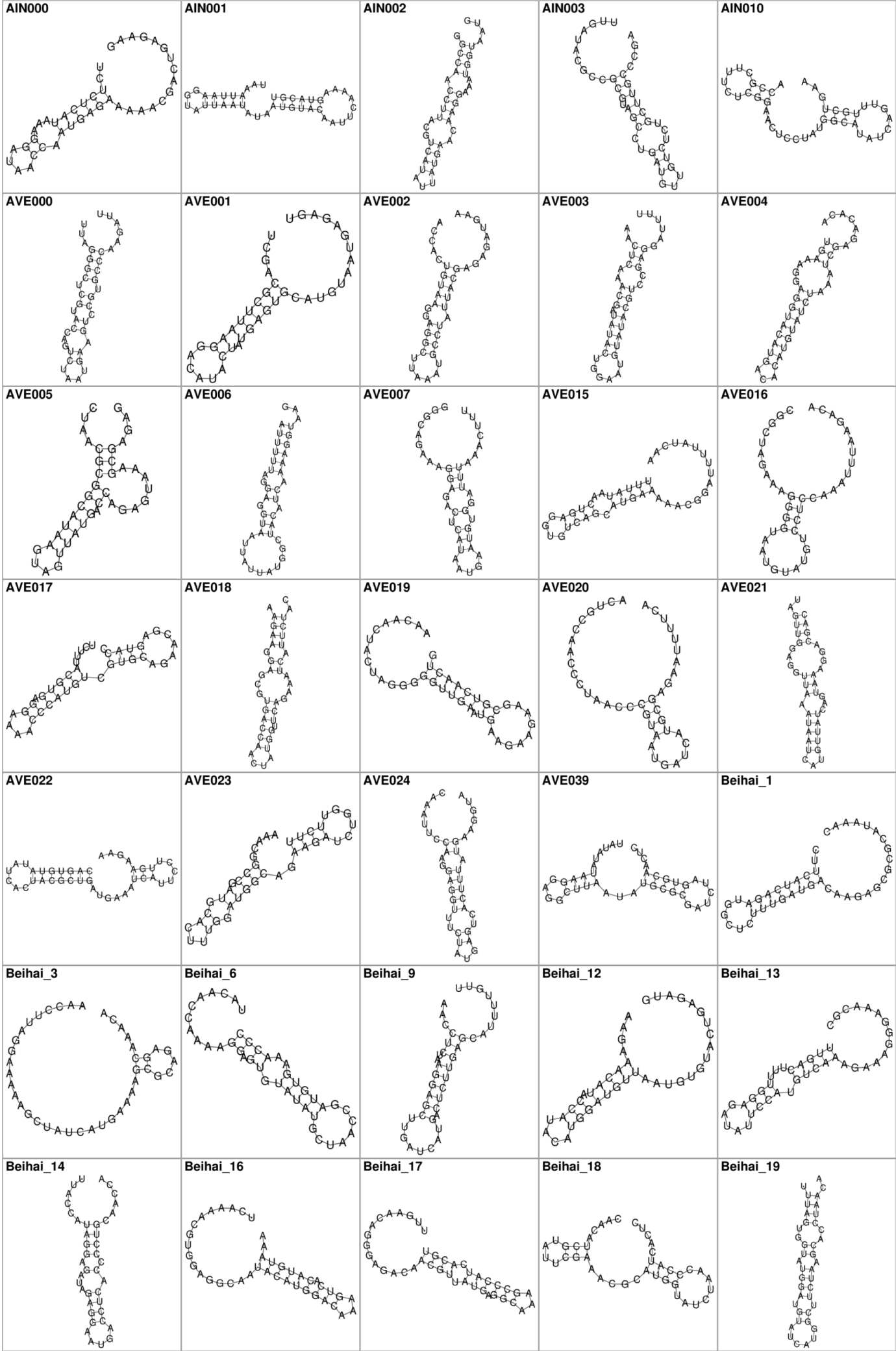


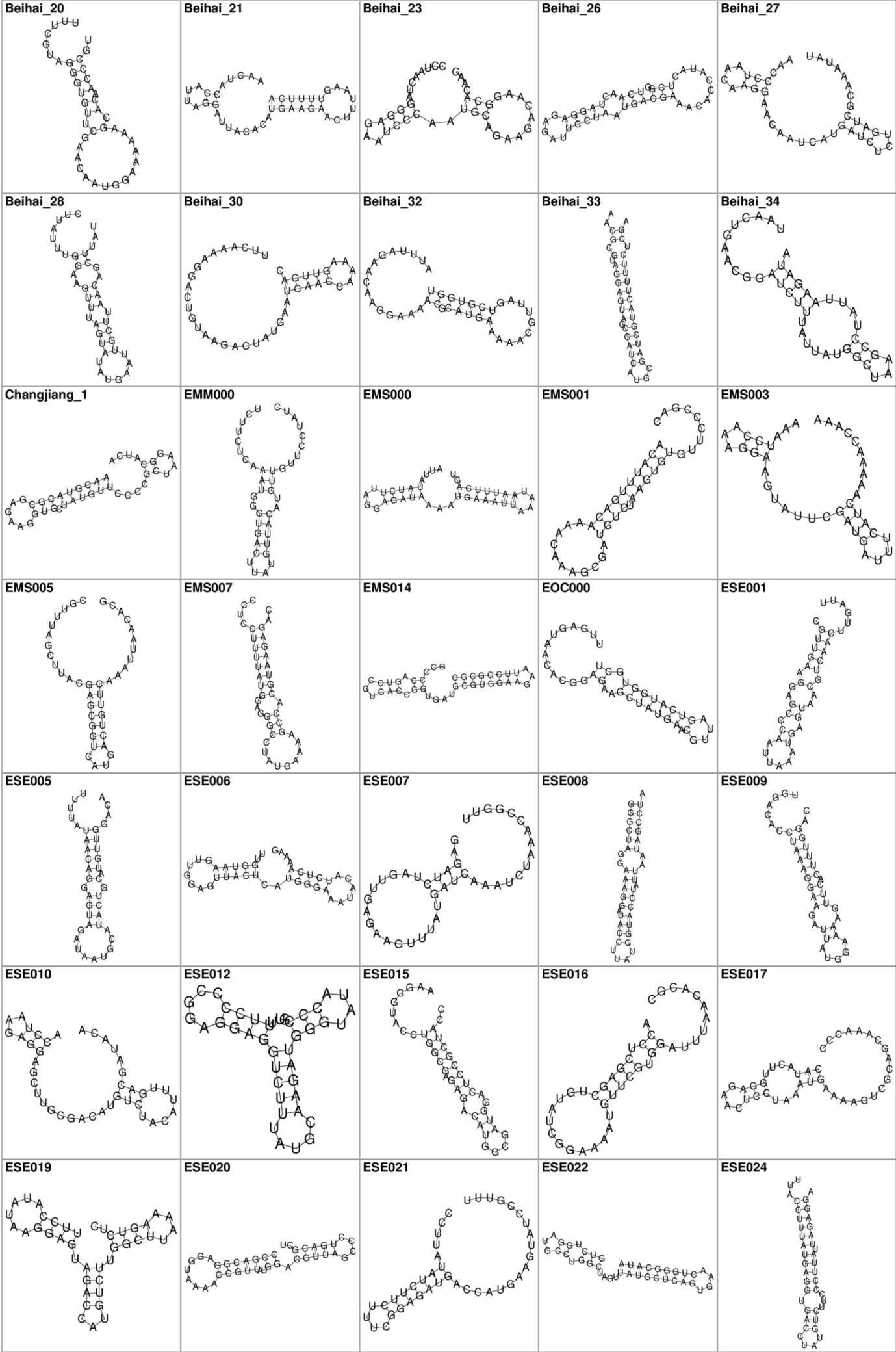
ESE030 15 °C
ESE037 15 °C
ESE041 15 °C
ESE046 15 °C
ESE058 15 °C
ESO000 15 °C
M2



M2
ESO001_ORF2 15 °C
ESO010 15 °C
Beihai3 15 °C
Beihai9 15 °C
Beihai13 15 °C
Hubei3 15 °C
Hubei6 15 °C

Figure S2. Solubility of the metagenomic ssRNA phage CPs at 37°C and 15°C. The samples represent the soluble (s) and insoluble (d) cellular protein fractions after the CPs were produced at the indicated temperature. The proteins were produced at 15 °C only if they were completely insoluble at 37 °C. M2 – lanes with MW marker - 14, 18, 25, 35, 45, 66 and 116 kDa. M1 and M2 – protein molecular weight markers (M1: bands of 10, 15, 25, 35, 40, 55, 70, 100, 130 and 180 kDa; M2: bands of 14, 18, 25, 35, 45, 66 and 116 kDa).





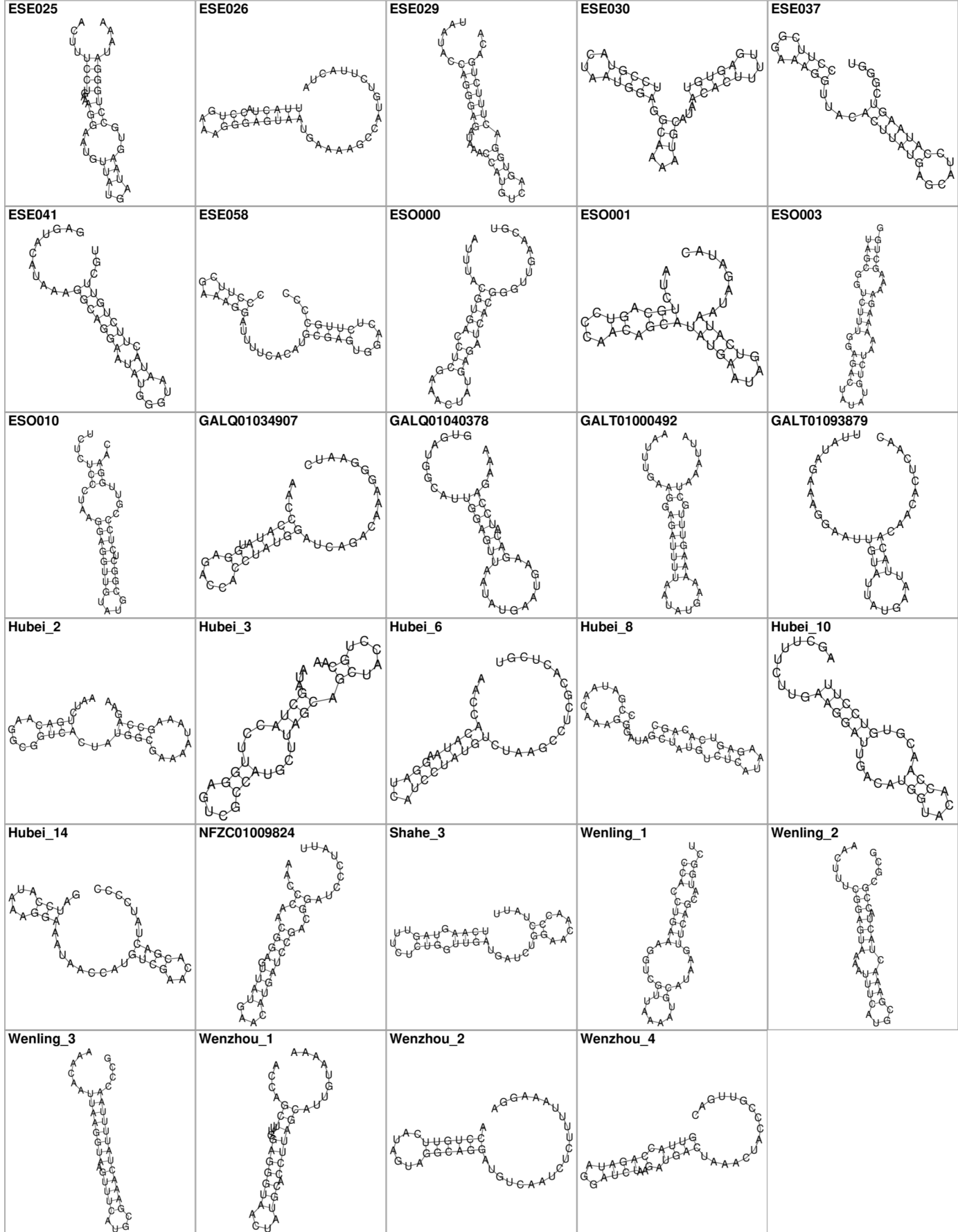


Figure S3. Predicted RNA hairpin structures at the beginning of the replicase gene in the metagenomic ssRNA phage genome sequences. A region flanking 20 nucleotides in each direction from the first nucleotide of the replicase gene was used for the prediction.