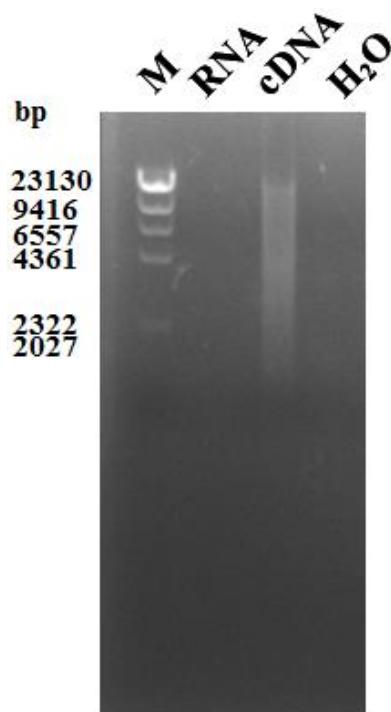


1 **Extended data**

2 **Fig S1**



4 **Fig S1. Isothermal amplification of the extracted viral genomic RNAs and**
5 **cDNAs.** The viral genomic RNAs were extracted from the purified deep-sea virions,
6 followed by reverse transcription to synthesize cDNAs. The extracted RNAs and
7 cDNAs of each of 133 sediment samples were subjected to isothermal amplification.
8 Distilled water was used as a control. The representative image of 133 deep-sea
9 sediment samples was presented. M, DNA marker.

10

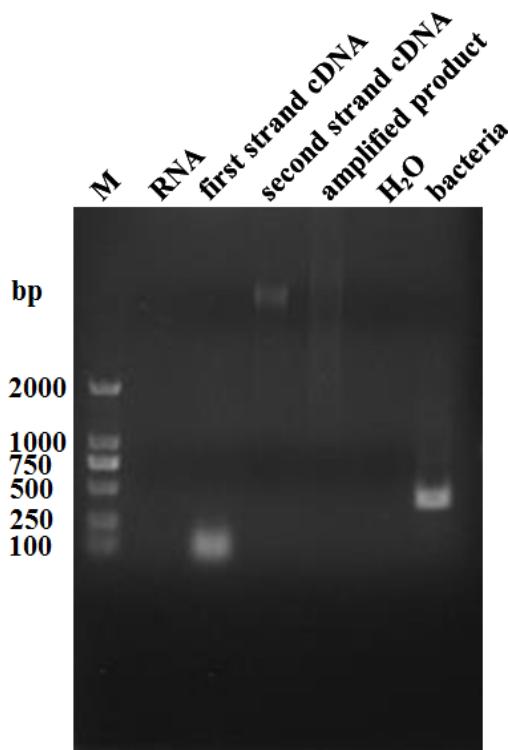
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15 Fig S2



17 **Fig S2. Detection of bacteria in samples.** The viral genomic RNAs, extracted from
18 the purified deep-sea virions, were transcribed into cDNAs, followed by isothermal
19 amplification. The extracted viral RNAs, the first-strand cDNA, the second-strand
20 cDNA and the amplified product of each of 133 sediment samples were subjected to
21 PCR using the bacterial 16S rRNA gene-specific primers. Distilled water and bacteria
22 were used as controls. The representative image of 133 deep-sea sediment samples
23 was shown. M, DNA marker.