

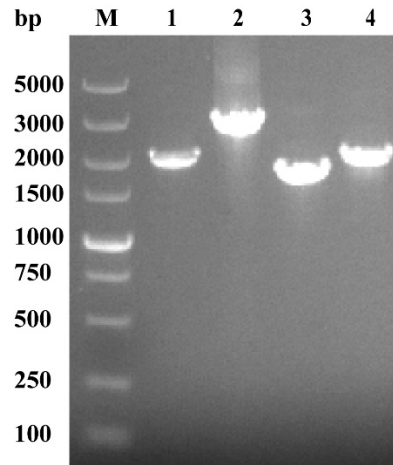


Figure S1. Amplification of the complete genome of EV-G/YN23/2022 isolate. Lane M, DNA Marker DL 5000. Lane 1 to 4, four overlapping PCR products of EV-G/YN23/2022 genome.

Table S1. Information on the 47 reference EVGs downloaded from GenBank.

Reference strains	Country/year	Accession No.	Reference strains	Country/year	Accession No.
UKG/410/73	GBR/2002	Y14459	744257	VIE/2012	KJ156451
Texas1	USA/2014	KY498016	To-4	JPN/2019	LC535380
Ishi-Ya4-1	JPN/2016	LC316789	Ishi-29	JPN/2019	LC535403
KNU-1811	KOR/2018	MH663501	714270/CaoLanh	VIE/2012	KT265903
EVG 02/NC_CHI	CHI/2014	MF782664	714405/CaoLanh	VIE/2012	KT265909
HgTa1	JPN/2016	LC316794	NIV-1740787	IND/2017	MN734577
LP54	GBR/2002	AF363455	724307/ChauThanh	VIE/2012	KT265941
HgYa2-1	JPN/2015	LC316791	BS14-173H2	VIE/2014	KT266010
Ishi-4	JPN/2018	LC535372	Ishi-10	JPN/2019	LC535396
Bu3-4	JPN/2014	LC316795	EVG 08/NC	USA/2015	KY761948
Ishi-Ka5-1	JPN/2016	LC316813	Ishi-Ya4	JPN/2017	LC549655
K23	HUN/2008	HQ702854	Kana-Ebi4	JPN/2018	LC549658
Iba464-3-2	PN/2015	LC316817	Kana-Ebi7	JPN/2019	LC549661
714361/CaoLanh	VIE/2012	KT265906	F26-2	GER/2013	MF113370
TB4-OEV	HUN/2009	JQ277724	GER/F8-2/04-02-2013	GER/2013	MF113372
HgTa2-1-2	JPN/2015	LC316819	JL14	CHI/2014	KU297674
PEV-B-KOR	KOR/2009	JQ818253	Texas2	USA/2014	KY498017
990/UK-NI	GBR/2018	MG958646	HgOg2-2	JPN/2015	LC316774
Ishi-3	JPN/2018	LC535369	Kana-Uchi13	JPN/2019	LC549657
Iba26-489	JPN/2014	LC316823	Iba26-506	JPN/2014	LC316792
734087/ThanhBinh	VIE/2012	KT265961	Ishi-24	JPN/2019	LC535402
Kana-Uchi4	JPN/2019	LC549656	Ishi-Ya3-2	JPN/2016	LC316825
Ishi-Im9-1	JPN/2016	LC316831	HgYa2-3-1	JPN2015	LC316827
724219/ChauThanh	VIE/2012	KT265931			

Table S2. The RT-qPCR primers used to measure mRNA levels of various cytokines.

Primer Name	Sequence (5'→3')	Reference
pISG15-F	GATCGGTGTGCCTGCCTTC	[36]
pISG15-R	CGTTGCTGCGACCCCTTGT	
pIRF7-F	CTGCGATGGCTGGATGAA	[37]
pIRF7-R	TAAAGATGCGCGAGTCGGA	
pIFN-β-F	AGCAGATCTTCGGCATTCTC	[35]
pIFN-β-R	GTCATCCATCTGCCCATCAA	
pIFN-λ3-F	GTTCAAGTCTCTGTCCCCAC	
pIFN-λ3-R	GCTGCAGTTCCAGTCCTC	
βActin-F	CCCAGCACCATGAAGATCAA	[34]
βActin-R	GATCCACATCTGCTGGAAGG	
IFN-α-F3	TTCTGCACTGGACTGGATC	
IFN-α-R3	TCTGTGGAAGTATTTCTCCTCACAG	
IL-1β-F	ACCCAAAACCTGGACCTTGG	[32]
IL-1β-R	CATCACAGAAGGCCTGGGAG	
IL-6-F	CTCATTAAGTACATCCTCGG	
IL-6-R	GTCTCCTGATTGAACCCAGA	
pTNF-α-F	CCTACTGCACTTCGAGGTTATC	
pTNF-α-R	ACGGGCTTATCTGAGGTTTG	
IL-18-F	CGTGTGTTGAGGATATGCCTGATT	[33]
IL-18-R	TGGTTACTGCCAGACCTCTAGTGA	

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Table S3. Information about the recombination event of EV-G/YN23/2022.

Recombinant Event	Breakpoints		Major (Similarity)	Minor (Similarity)	p-Value of the Detection Methods						
	Beginning	Ending			RDP	GENECONV	BootScan	MaxChi	Chimaera	SiScan	3Seq
1	845	3359	MF782644 (92.9%)	Unknow	1.766×10^{-54}	4.278×10^{-43}	3.906×10^{-44}	1.157×10^{-27}	8.523×10^{-31}	1.638×10^{-53}	4.353×10^{-11}