

Table S3. Pairwise amino acid sequences distances based on the PBI gene between the Egyptian *Ammoonvirus* isolate (this study) and representative members of the order *Articulavirales*. Distances were calculated using the p-distance model and are expressed as the percentage of differing amino acid sites between sequences. Lower values indicate higher sequence similarity.

	AmnoonvirusEGY1	TiLV*_Index_strain	Rainbowtrout_orthomyxovirus1	Infectious_Salmon_Anemia_virus	Yancheng_orthomyxo-like_virus	Wenling_orthomyxo-like_virus2	Wenling_hagfish_influenza_virus	Wuhan_asiatic_toad_influenza_virus	Wuhan_spiny_eel_influenza_virus	Wuhan_carp_Isavirus1	Xibalbanus_thogotovirus1	Influenza_A	Influenza_B	Influenza_C	Influenza_D	Pilchard_orthomyxovirus	Lautavirus	TiLV_like_virus1	Fancy_Tailed_Guppy_Virus_B2	Flavolineata_virus	Dolomieu_virus	Namensis_virus	Stewartii_virus	Przewalskiivirus	Asotusvirus1	Asotusvirus2
AmnoonvirusEGY1																										
TiLV*_Index_strain	16.3																									
	3																									
Rainbowtrout_orthomyxovirus1	95.8	95.8																								
	3	3																								
Infectious_Salmon_Anemia_virus	97.9	97.9	70.8																							
	2	2	3																							
Yancheng_orthomyxo-like_virus	95.8	97.9	89.5	91.6																						
	3	2	8	7																						
Wenling_orthomyxo-like_virus2	95.8	95.8	91.6	91.6	93.7																					
	3	3	7	7	5																					
Wenling_hagfish_influenza_virus	93.7	93.7	89.5	93.7	100	85.4																				
	5	5	8	5		2																				
Wuhan_asiatic_toad_influenza_virus	95.9	95.9	91.6	97.9	95.8	89.5	85.4																			
	2	2	7	2	3	8	2																			
Wuhan_spiny_eel_influenza_virus	97.9	97.9	91.6	91.6	91.6	95.8	93.7	87.5																		
	2	2	7	7	7	3	5	0																		
Wuhan_carp_Isavirus1	93.7	95.8	72.9	60.4	89.5	95.8	85.4	91.6	85.4																	
	5	3	2	2	8	3	2	7	2																	
Xibalbanus_thogotovirus1	89.5	91.6	93.7	97.9	95.8	95.8	87.5	91.6	87.5	97.9																
	8	7	5	2	3	3	0	7	0	2																
Influenza_A	91.6	93.7	91.6	87.5	91.6	89.5	91.6	89.5	58.3	89.5	91.6															
	7	5	7	0	7	8	7	8	3	8	7															
Influenza_B	89.5	93.7	81.2	83.3	83.3	91.6	89.5	85.4	54.1	87.5	85.4	64.5														
	8	5	5	3	3	7	8	2	7	0	2	8														
Influenza_C	87.5	89.5	93.7	93.7	87.5	95.8	89.5	77.0	77.0	91.6	87.5	70.8	72.9													
	0	8	5	5	0	3	8	8	8	7	0	3	2													

Influenza_D	89.5	89.5	85.4	87.5	85.4	93.7	93.7	89.5	77.0	83.3	91.6	66.6	66.6	52.0																					
	8	8	2	0	2	5	5	8	8	3	7	7	7	8																					
Pilchard_orthomyxovirus	97.9	97.9	66.6	68.7	93.7	95.8	93.7	89.5	91.6	68.7	93.7	91.6	85.4	93.7	89.5																				
	2	2	7	5	5	3	5	8	7	5	5	7	2	5	8																				
Lautavirus	91.6	89.5	93.7	89.5	89.5	95.8	93.7	95.8	91.6	87.5	93.7	87.5	95.8	89.5	85.4	93.7																			
	7	8	5	8	8	3	5	3	7	0	5	0	3	8	2	5																			
TiLV_like_virus1	44.9	42.8	93.7	93.7	97.9	95.8	95.8	93.8	97.9	89.5	85.4	93.7	97.9	89.5	91.6	95.8	89.5																		
	0	6	5	5	2	3	3	8	2	8	2	5	2	8	7	3	8																		
Fancy_Tailed_Guppy_Virus_B2	40.8	38.7	93.7	93.7	100	100	97.9	95.9	95.8	89.5	87.5	91.6	97.9	89.5	91.6	95.8	91.6	22.4																	
	2	8	5	5			2	2	3	8	0	7	2	8	7	3	7	5																	
Flavolineata_virus	77.0	75.0	89.5	93.7	95.8	93.7	87.5	95.8	93.7	95.8	95.8	97.9	89.5	89.5	93.7	93.7	93.7	81.2	75.0																
	8	0	8	5	3	5	0	3	5	3	3	2	8	8	5	5	5	5	0																
Dolomieu_virus	97.6	97.6	90.7	90.7	100	95.3	93.0	95.3	93.0	90.7	97.6	93.0	95.3	95.3	95.3	93.0	90.7	97.6	95.3	93.0															
	7	7	0	0		5	2	5	2	0	7	2	5	5	5	2	0	7	5	2															
Namensis_virus	85.4	85.4	89.5	91.6	93.7	89.5	93.7	85.4	91.6	93.7	95.8	85.4	85.4	89.5	85.4	91.6	95.8	79.1	81.2	89.5	100														
	2	2	8	7	5	8	5	2	7	5	3	2	2	8	2	7	3	7	5	8															
Stewartii_virus	87.5	93.7	95.8	95.8	87.5	93.7	95.8	93.7	93.7	93.7	93.7	89.5	95.8	89.5	91.6	97.9	91.6	91.6	95.8	91.6	93.02	93.7													
	0	5	3	3	0	5	3	5	5	5	5	8	3	8	7	2	7	7	3	7		5													
Przewalskiivirus	95.8	97.9	95.8	97.9	91.6	95.8	93.7	93.7	87.5	91.6	89.5	95.8	91.6	95.8	93.7	91.6	93.7	91.6	91.6	95.8	100.0	91.6	87.5												
	3	2	3	2	7	3	5	5	0	7	8	3	7	3	5	7	5	7	7	3	0	7	0												
Asotusvirus1	95.8	95.8	91.6	93.7	95.8	93.7	91.6	91.6	97.9	93.7	95.8	89.5	100	97.9	95.8	95.8	91.6	93.7	93.7	93.7	95.35	95.8	87.5	87.5											
	3	3	7	5	3	5	7	7	2	5	3	8		2	3	3	7	5	5	5		3	0	0											
Asotusvirus2	91.6	95.8	89.5	91.6	91.6	93.7	97.9	81.2	97.9	89.5	89.5	93.7	91.6	89.5	91.6	91.6	91.6	91.6	95.8	97.9	97.67	87.5	93.7	91.6	91.6										
	7	3	8	7	7	5	2	5	2	8	8	5	7	8	7	7	7	7	3	2		0	5	7	7										

Table S6. Pairwise nucleotide sequence distances between Egyptian amnoonvirus isolate (this study) and different *Amnoonviridae* members, including the TiLV, TiLV-like, and FTGV by segment 5. Distances were calculated using the p-distance model and are expressed as the percentage of differing nucleotide sites between sequences. Lower values indicate higher sequence similarity.

[illegible]

	21	8	0	8	9	9	5	1	8	2	4	1																								
MN687749/TiLV/Thailand/TH-2018-N	60.72	3.10	3.10	3.10	4.39	4.39	1.55	1.81	3.88	1.55	2.84	4.91	2.07																							
MH319382/TiLV/Thailand/WVL18053-01A	59.95	3.36	1.81	3.36	3.10	3.10	1.81	1.55	3.10	2.33	0.00	3.10	2.84	2.84																						
MT466461/TiLV/Bangladesh/BD-2019-E3	59.95	5.43	2.84	5.43	0.52	0.52	3.88	3.62	4.13	4.39	3.62	1.03	4.91	4.65	3.62																					
OR101703/TiLV/India/KR-5/S2/SRLAAH/2021	59.43	5.43	3.10	5.68	0.78	1.29	4.13	3.88	4.39	4.66	3.36	0.26	5.17	5.17	3.36	1.29																				
MN687709/TiLV/Thailand/TH-2015	60.21	4.91	2.33	4.91	3.10	3.10	3.36	3.10	3.62	3.88	3.10	3.62	4.39	3.88	3.10	3.62	3.88																			
ON376586/TiLV/Viet_Nam/RIA2-VN-2019	60.94	9.38	7.55	8.33	7.81	7.81	7.81	7.55	8.85	8.33	8.07	8.33	8.85	8.85	8.07	8.33	8.59	7.29																		
MN687759/TiLV/Thailand/TH-2018-K	60.98	5.43	2.33	5.43	3.62	4.13	3.88	3.62	4.13	4.39	3.62	4.13	4.91	4.39	3.62	4.13	4.39	3.62	8.33																	
MK425014/TiLV/Peru/F3-4	60.21	4.65	1.03	4.66	3.36	3.36	3.10	2.84	2.84	3.62	2.84	3.88	4.13	4.13	2.84	3.88	4.13	3.36	8.07	2.84																
OR101704/TiLV/India/CC-5/S4/SRLAAH/2023	60.47	6.20	4.13	6.20	5.94	5.94	4.65	4.91	3.36	5.17	5.43	6.46	5.68	5.68	5.43	6.46	6.46	5.43	9.64	6.46	4.65															
OL469277/TiLV/Thailand/TiLV-2018	59.69	4.39	2.84	4.39	3.62	3.62	2.84	2.55	4.13	3.36	1.03	3.62	3.88	3.88	1.03	4.13	3.88	4.13	8.59	4.65	3.88	6.46														
MN687739/TiLV/Thailand/TH-2017	60.21	5.17	3.10	5.17	3.88	3.88	4.13	3.88	4.39	4.66	3.88	4.39	5.17	4.66	3.88	4.39	4.66	1.29	7.81	4.13	3.62	6.20	4.91													
KX631925/TiLV/Thailand/TV1	59.69	6.20	3.62	6.20	4.39	4.39	4.66	4.39	4.91	5.17	3.88	4.91	5.68	5.17	3.88	4.91	5.17	3.36	8.07	4.91	4.65	6.20	4.91	4.65												
MZ297927/TiLV/India/IND-2018	60.05	6.88	3.70	5.82	5.56	5.56	5.29	5.03	5.03	5.56	5.56	6.08	6.08	6.36	5.56	6.08	6.36	5.56	9.64	6.08	4.76	7.41	6.65	6.36	6.36											
KU751818/TiLV/Israel/Til-4-2011* Index_strian	59.95	3.62	0.02	3.62	2.33	2.33	2.07	1.81	1.81	2.55	1.81	2.84	3.10	3.10	1.81	2.84	3.10	2.33	7.55	2.33	1.03	4.13	2.84	3.10	3.62	3.70										
BK063204/TiLV-like_virus/Caribbean/Maracas_2015-1	61.46	19.53	19.01	19.53	20.57	20.57	18.49	18.75	20.05	17.97	19.27	20.57	17.97	17.71	19.27	20.57	18.49	18.37	19.53	19.01	20.83	20.31	19.79	20.57	20.00	19.01										
BK063214/TiLV-like_virus/Caribbean/Maracas_2015-2	61.46	19.53	19.01	19.53	20.57	20.57	18.49	18.75	20.05	17.97	19.27	20.57	17.97	17.71	19.27	20.57	18.49	18.37	19.53	19.01	20.83	20.31	19.79	20.57	20.00	19.01	0.00									
PP409989/FTGV/USA/Guppy/95/10/82	61.98	19.53	18.23	19.01	20.05	20.05	17.45	18.23	19.27	17.45	18.75	20.05	17.45	17.19	18.75	20.05	18.49	18.11	18.75	18.75	20.05	19.27	18.23	20.05	19.73	18.23	8.07	8.07								
PP409999/FTGV/USA/CobraB-2	60.94	18.49	18.49	18.49	20.31	19.79	17.97	18.75	19.53	17.97	19.27	20.31	17.97	17.71	19.27	20.31	18.75	18.37	18.49	19.01	20.31	20.31	17.97	20.83	20.00	18.49	8.33	8.33	6.70							
MN939376/TiLV/Bangladesh/BD-2017	59.43	5.43	2.84	5.43	0.52	1.03	3.88	3.62	4.13	4.39	3.62	1.03	4.91	4.91	3.62	1.03	1.29	3.62	7.81	4.13	3.36	6.46	4.13	3.88	4.91	6.08	2.84	20.83	20.83	20.31	20.57					
OQ437058/TiLV/Hong_Kong/Israel-HK	59.59	4.13	1.03	4.13	2.84	2.84	2.55	2.33	2.33	3.10	2.33	3.36	3.62	3.36	2.33	3.36	2.55	7.55	3.10	2.07	4.13	3.36	3.36	3.36	4.77	1.03	19.84	19.84	19.06	19.32	3.37					
KU552141/TilapiaVirus/Israrl/AD-2016	60.21	3.62	1.55	4.13	3.36	3.36	3.10	2.84	2.84	3.62	2.84	3.88	4.13	4.13	2.84	3.88	2.84	7.81	3.88	2.55	4.65	3.88	3.62	4.65	5.29	1.55	19.27	19.27	19.01	18.23	3.88	2.07				
KY615743/TiLV/Thailand/CL	59.	3.1	1.5	3.1	2.8	2.8	1.5	1.2	2.8	2.0	0.2	2.8	2.5	2.5	0.2	3.3	3.1	2.8	7.8	3.3	2.5	5.1	1.2	3.6	3.6	5.2	1.5	19.	19.	18.	19.	3.	2.	2.		

	95	0	5	0	4	4	5	9	4	7	6	4	8	8	6	6	0	4	1	6	8	7	9	2	2	9	5	01	01	49	01	36	07	58		
PV356101/TiLV/Colombia/ICA20	60.	5.1	3.1	5.6	4.9	4.9	4.1	3.8	4.9	4.6	3.8	5.4	5.1	5.1	3.8	5.4	5.6	4.9	8.5	4.3	4.1	7.2	4.9	5.6	5.6	6.8	3.1	20.	20.	18.	19.	5.	4.	4.	3.	
23	72	7	0	8	1	1	3	8	1	5	8	3	7	7	8	3	8	1	9	9	3	4	1	8	8	8	0	05	05	49	27	43	15	65	62	
ON376576/TiLV/Viet_Nam/HB196	60.	3.8	4.9	3.3	6.2	6.2	3.3	3.6	5.6	2.8	4.1	6.7	2.8	3.8	4.1	6.7	6.9	6.2	10.	6.7	5.9	7.4	5.1	6.4	6.4	6.8	4.9	19.	19.	18.	19.	6.	5.	5.	3.	6.
-VN-2020	21	8	1	6	0	0	6	2	8	4	3	2	4	8	3	2	8	0	16	2	4	9	7	6	6	8	1	01	01	49	01	72	44	94	88	46

Table S7. Pairwise amino acid sequence distances between Egyptian amnoonvirus isolate (this study) and different *Amnoonviridae* members, including the TiLV, TiLV-like, and FTGV by segment 5. Distances were calculated using the p-distance model and are expressed as the percentage of differing amino acid sites between sequences. Lower values indicate higher sequence similarity.

[illegible]

MT466461/TiLV/Bangladesh/BD-2019-E3	76.67	1.67	0.83	1.67	0.00	0.00	2.50	2.50	3.33	1.67	1.67	0.00	2.50	3.33	1.67																							
OR101703/TiLV/India/KR-5/S2/SRLAAH/2021	76.67	1.67	0.83	1.67	0.00	0.00	2.50	2.50	3.33	1.67	1.67	0.00	2.50	3.33	1.67	0.00																						
MN687709/TiLV/Thailand/TH-2015	76.67	2.50	1.67	2.50	0.83	0.83	3.33	3.33	4.17	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83																					
ON376586/TiLV/Viet_Nam/RIA2-VN-2019	77.31	3.33	3.33	3.33	2.50	2.50	4.20	4.20	5.83	3.33	3.33	2.50	4.20	5.00	3.33	2.50	2.50	3.33																				
MN687759/TiLV/Thailand/TH-2018-K	77.50	2.50	1.67	2.50	0.83	0.83	3.33	3.33	4.17	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	1.67	3.33																			
MK425014/TiLV/Peru/F3-4	76.67	2.50	0.00	2.50	0.83	0.83	3.33	3.33	2.50	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	1.67	3.33	1.67																		
OR101704/TiLV/India/CC-5/S4/SRLAAH/2023	76.67	4.17	1.67	4.17	2.50	2.50	5.00	4.17	0.83	4.17	4.17	2.50	5.00	5.83	4.17	2.50	2.50	3.33	5.00	3.33	1.67																	
OL469277/TiLV/Thailand/TiLV-2018	75.83	1.67	4.17	1.67	3.33	3.33	2.50	2.50	6.67	1.67	1.67	3.33	2.50	3.33	1.67	3.33	3.33	4.17	5.00	4.17	4.17	5.83																
MN687739/TiLV/Thailand/TH-2017	76.67	2.50	1.67	2.50	0.83	0.83	3.33	3.33	4.17	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	0.00	3.33	1.67	1.67	3.33	4.17															
KX631925/TiLV/Thailand/TV1	77.50	2.50	1.67	2.50	0.83	0.83	3.33	3.33	4.17	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	1.67	3.33	1.67	1.67	3.33	4.17	1.67														
MZ297927/TiLV/India/IND-2018	76.07	2.50	0.00	2.50	0.83	0.83	3.40	3.40	2.50	2.50	2.50	0.83	3.40	4.20	2.50	0.83	0.83	1.70	3.40	1.70	0.00	1.70	4.20	1.70	1.70													
KU751818/TiLV/Israel/Til-4-2011*Index_strian	76.67	2.50	0.00	2.50	0.83	0.83	3.33	3.33	2.50	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	1.67	3.33	1.67	0.00	1.67	4.17	1.67	1.67	0.00												
BK063204/TiLV-like_virus/Cariibbean/Maracas_2015-1	77.50	17.00	17.00	17.00	17.00	17.00	18.00	18.00	20.00	17.00	17.00	17.00	18.00	18.00	17.00	17.00	17.00	18.00	14.00	18.00	17.00	19.00	19.00	18.00	17.00	17.00	17.00											
BK063214/TiLV-like_virus/Cariibbean/Maracas_2015-2	77.50	17.00	17.00	17.00	17.00	17.00	18.00	18.00	20.00	17.00	17.00	17.00	18.00	18.00	17.00	17.00	17.00	18.00	14.00	18.00	17.00	19.00	19.00	18.00	17.00	17.00	17.00	0.00										
PP409989/FTGV/USA/Guppy/95/10/82	76.67	20.00	20.00	20.00	20.00	20.00	20.00	21.00	23.00	20.00	20.00	20.00	21.00	21.00	20.00	20.00	20.00	21.00	17.00	21.00	20.00	22.00	20.00	21.00	20.00	20.00	10.00	10.00										
PP409999/FTGV/USA/CobraB-2	76.67	15.00	15.00	15.00	15.00	15.00	15.00	16.00	18.00	15.00	15.00	15.00	16.00	16.00	15.00	15.00	15.00	16.00	12.00	16.00	15.00	17.00	17.00	16.00	15.00	16.00	15.00	8.30	8.30	7.50								
MN939376/TiLV/Bangladesh/BD-2017	76.67	1.67	0.83	1.67	0.00	0.00	2.50	2.50	3.33	1.67	1.67	0.00	2.50	3.33	1.67	0.00	0.00	0.83	2.50	0.83	0.83	2.50	3.33	0.83	0.83	0.83	0.83	17.00	17.00	20.00	15.00							
OQ437058/TiLV/Hong_Kong/Israel-HK	77.31	3.33	0.83	3.33	1.67	1.67	4.20	4.20	3.33	3.33	3.33	1.67	4.20	5.00	3.33	1.67	1.67	2.50	4.20	2.50	0.83	2.50	5.00	2.50	2.50	0.83	0.83	18.00	18.00	21.00	16.00	1.00						
KU552141/TilapiaVirus/Israel/AID-2016	76.67	2.50	0.00	2.50	0.83	0.83	3.33	3.33	2.50	2.50	2.50	0.83	3.33	4.17	2.50	0.83	0.83	1.67	3.33	1.67	0.00	1.67	4.17	1.67	1.67	0.00	0.00	17.00	17.00	20.00	15.00	0.00	0.00					
KY615743/TiLV/Thailand/CL	76.67	0.00	2.50	0.00	1.67	1.67	0.83	0.83	5.00	0.00	0.00	1.67	0.83	1.67	0.00	1.67	1.67	2.50	3.33	2.50	2.50	4.17	1.67	2.50	2.50	2.50	2.50	17.00	17.00	20.00	15.00	1.00	3.00	2.00				
PV356101/TiLV/Colombia/ICA2023	76.67	1.67	1.67	1.67	0.83	0.83	2.50	2.50	4.17	1.67	1.67	0.83	2.50	3.33	1.67	0.83	0.83	1.67	2.50	1.67	1.67	3.33	3.33	1.67	1.67	1.70	1.67	17.00	17.00	20.00	15.00	0.00	2.00	1.00	1.00			
ON376576/TiLV/Viet_Nam/HB196-VN-2020	76.67	1.67	4.17	1.67	3.33	3.33	2.50	2.50	6.67	1.67	1.67	3.33	2.50	3.33	1.67	3.33	3.33	4.17	5.00	4.17	4.17	5.83	3.33	4.17	4.17	3.40	4.17	17.00	17.00	20.00	15.00	3.00	5.00	4.00	1.00	3.00		
