

Safwat, M., Adel, A., Rady, M., Hamoud, M. H. and Kilany, W. H. 2024. Identification and genetic correlation of avian reoviruses to the currently used vaccines in Egypt. Ger. J. Vet. Res. 4 (1): 1-8.  
<https://doi.org/10.51585/gjvr.2024.1.0068>

Serial	Year	Governorate	Age	Sector	Clinical sings
1	2020	Al Menofia	35 W	Breeder broiler	Arthritis, swollen joints, lameness
2	2020	Al Menofia	35 W	Breeder broiler	Arthritis, swollen joints, lameness
3	2020	Al Menofia	35 W	Breeder broiler	Arthritis, swollen joints, lameness
4	2020	Giza	46 W	Breeder broiler	Arthritis, swollen joints, lameness
5	2020	Giza	46 W	Breeder broiler	Arthritis, swollen joints, lameness
6	2020	Giza	46 W	Breeder broiler	Arthritis, swollen joints, lameness
7	2020	Giza	46 W	Breeder broiler	Arthritis, swollen joints, lameness
8	2021	Giza	26 D	Broilers	Arthritis, swollen joints, malabsorption, lameness
9	2021	Giza	27D	Broilers	Arthritis, swollen joints, malabsorption, lameness
10	2021	Al Behera	37D	Broilers	Swollen joints, malabsorption
11	2021	Al Menofia	37D	Broilers	Swollen joints, malabsorption
12	2021	Al Menofia	37D	Broilers	Swollen joints, malabsorption
13	2021	Giza	30 W	Breeders	Arthritis, swollen joints, malabsorption, lameness
14	2021	Giza	26 D	Broilers	Arthritis, swollen joints, malabsorption, lameness

Governorates	Total No. of examined farms	No. of positive Farms (Positivity%)
Broiler Breeders	Al Menofia	3/3
	Al Behera	0/2
	Giza	5/9
Broilers	Al Menofia	2/2
	Al Qualiobia	0/1
	Al Behera	1/3
	Giza	3/7
<b>Total</b>	27	14 (51.9%)

		Nucleotide Identity																							
Seq-ID		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	511133		98.7%	98.8%	99.1%	99.2%	98.8%	98.2%	50.1%	39.3%	49.6%	48.8%	48.3%	49.7%	49.3%	49.3%	49.0%	49.8%	49.6%	49.7%	45.7%	45.1%	45.0%	48.0%	47.8%
2	2408	98.1%		99.1%	99.6%	99.5%	98.8%	98.5%	50.3%	50.6%	49.7%	49.0%	48.6%	50.0%	49.6%	49.7%	49.2%	50.1%	49.8%	50.0%	50.0%	48.3%	48.1%	48.1%	48.0%
3	2177_MSD	97.7%	98.1%		99.5%	99.6%	99.0%	98.6%	50.4%	50.7%	49.8%	49.1%	48.7%	50.0%	49.7%	49.7%	49.2%	50.1%	49.8%	50.0%	50.0%	48.3%	48.1%	48.1%	48.0%
4	1733	98.5%	99.6%	98.5%		99.6%	99.2%	98.8%	50.2%	50.4%	49.8%	48.8%	48.3%	49.7%	49.3%	49.5%	49.0%	49.8%	49.6%	49.7%	49.7%	48.1%	48.0%	48.0%	47.8%
5	Fahay-Crawley	98.8%	99.2%	98.8%	99.6%		99.3%	99.0%	50.3%	50.6%	50.0%	49.0%	48.6%	49.8%	49.6%	49.6%	49.1%	50.0%	49.7%	49.8%	49.8%	48.3%	48.1%	48.1%	48.0%
6	V.A.Vac	100.0%	98.1%	97.7%	98.5%	98.8%		98.3%	50.0%	50.2%	49.7%	48.7%	48.3%	49.6%	49.3%	49.3%	48.8%	49.7%	49.5%	49.6%	49.6%	48.0%	47.8%	47.8%	47.6%
7	VA-1 (vaccine)	96.6%	97.0%	96.6%	97.3%	97.7%	96.6%		50.7%	50.9%	50.3%	49.3%	49.0%	50.2%	50.0%	50.0%	49.5%	50.3%	50.1%	50.2%	50.2%	45.7%	45.8%	45.8%	45.8%
8	SK-R18-can-IV	45.5%	45.8%	45.8%	45.8%	45.8%	45.5%	46.2%		99.3%	77.7%	77.9%	78.2%	79.3%	78.8%	78.0%	78.2%	79.4%	79.3%	79.3%	79.3%	78.4%	77.8%	77.7%	77.7%
9	Reo/PA/Broiler/05573/12-USA	45.5%	45.8%	45.8%	45.8%	45.8%	45.5%	46.2%	98.8%		77.8%	77.8%	78.1%	79.2%	78.7%	78.1%	79.3%	79.2%	79.2%	79.2%	78.0%	77.5%	77.3%	77.3%	77.3%
10	Somerville (SOM-4)	44.7%	45.1%	45.1%	45.1%	45.1%	44.7%	45.3%	82.4%	81.7%		75.2%	75.4%	76.4%	75.9%	75.9%	75.0%	76.6%	76.2%	76.4%	76.4%	75.1%	74.2%	74.0%	74.4%
11	Egypt-REO-1-2021-sigma C	42.5%	42.9%	42.9%	42.9%	42.9%	42.5%	43.2%	82.0%	81.3%	79.4%		97.8%	98.2%	98.5%	97.9%	97.3%	98.1%	98.0%	98.2%	98.2%	95.9%	94.9%	94.9%	94.5%
12	Egypt-REO-2-2021-sigma C	42.1%	42.5%	42.5%	42.5%	42.5%	42.1%	42.9%	82.0%	81.3%	79.4%	96.2%		97.7%	97.7%	97.0%	96.8%	97.6%	97.5%	97.7%	97.7%	95.6%	94.9%	94.9%	94.5%
13	Egypt-REO-3-2021-sigma C	44.7%	45.1%	45.1%	45.1%	45.1%	44.7%	45.3%	85.4%	84.7%	82.8%	96.2%	95.8%		99.2%	99.2%	98.3%	99.8%	99.7%	100.0%	100.0%	97.4%	96.7%	96.7%	96.3%
14	Egypt-REO-4-2021-sigma C	44.0%	44.4%	44.4%	44.4%	44.4%	44.0%	44.7%	84.7%	83.9%	82.0%	97.0%	96.6%	98.8%		98.5%	98.6%	99.1%	99.0%	99.2%	99.2%	96.5%	95.8%	95.8%	95.6%
15	Egypt-REO-5-2021-sigma C	44.0%	44.4%	44.4%	44.4%	44.4%	44.0%	44.7%	83.3%	83.2%	80.9%	94.4%	94.0%	97.7%	96.6%		97.6%	99.3%	99.0%	99.2%	99.2%	96.7%	96.0%	95.5%	95.4%
16	Egypt-REO-6-2021-sigma C	43.6%	44.0%	44.0%	44.0%	44.0%	43.6%	44.3%	83.2%	82.4%	80.5%	95.5%	95.5%	98.3%	97.3%	98.5%	95.1%		98.2%	98.6%	98.3%	95.2%	94.5%	94.5%	94.2%
17	Egypt-REO-7-2021-sigma C	44.7%	45.1%	45.1%	45.1%	45.1%	44.7%	45.3%	85.8%	85.0%	82.8%														

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Nucleotide Identity %																								
Seq ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1 750505 sigma A	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
2 919 sigma A	100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
3 1733 sigma A	100.0%	100.0%		100.0%	100.0%	100.0%	100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
4 OS161 sigma A	100.0%	100.0%	100.0%		100.0%	100.0%	100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
5 T6 sigma A	100.0%	100.0%	100.0%	100.0%		100.0%	100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
6 S1133 sigma A	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
7 176 sigma A	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		99.7%	99.7%	85.6%	86.2%	86.7%	86.7%	80.1%	80.7%	79.8%	79.8%	79.6%	78.2%	78.7%	79.8%	79.3%	75.7%	75.7%
8 918 sigma A	99.1%	99.1%	99.1%	99.1%	99.1%	99.1%	99.1%		99.4%	85.3%	85.9%	86.5%	86.5%	79.8%	80.4%	79.8%	79.6%	79.3%	77.9%	78.5%	79.6%	79.0%	75.4%	75.4%
9 EGY1 sigma A	99.1%	99.1%	99.1%	99.1%	99.1%	99.1%	99.1%	98.3%		85.3%	85.9%	86.5%	86.5%	79.8%	80.4%	79.6%	79.6%	79.3%	77.9%	78.5%	79.6%	79.0%	75.4%	75.4%
10 916 sigma A	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	95.8%	95.8%		99.4%	93.1%	92.5%	79.3%	79.3%	79.3%	80.0%	80.7%	79.6%	79.8%	80.9%	80.4%	77.1%	77.1%
11 1017-1 sigma A	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	96.6%	96.6%	99.1%		93.6%	93.1%	79.3%	79.8%	79.3%	81.5%	81.2%	80.1%	80.4%	81.5%	80.9%	77.6%	77.6%
12 601SI sigma A	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	95.8%	95.8%	98.3%	99.1%		97.2%	80.7%	79.3%	80.1%	82.6%	82.3%	81.2%	81.5%	82.6%	82.0%	78.5%	78.5%
13 R2/TW sigma A	95.8%	95.8%	95.8%	95.8%	95.8%	95.8%	95.8%	95.0%	95.0%	97.5%	98.3%	99.1%		79.8%	79.6%	79.8%	81.5%	80.4%	80.7%	81.8%	81.2%	77.6%	77.6%	
14 T1781 sigma A	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	95.8%	95.8%	95.0%	95.8%	96.6%	95.8%		88.9%	98.0%	86.5%	86.2%	83.7%	84.5%	86.5%	85.6%	82.6%	82.6%
15 4599-V-04	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	95.8%	95.8%	95.0%	95.8%	96.6%	95.8%	100.0%		88.7%	90.9%	90.6%	88.1%	88.9%	90.9%	90.0%	86.5%	86.5%
16 3457-M-11	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	95.8%	95.8%	95.0%	95.8%	96.6%	95.8%	100.0%	100.0%		86.2%	85.9%	83.4%	84.2%	86.2%	85.3%	82.1%	82.1%
17 Egypt-REO-1-2021-A	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	94.2%	94.2%	95.0%	95.8%	96.6%	95.8%	98.3%	98.3%	98.3%			99.7%	97.2%	97.7%	100.0%	99.1%	