

**Table S5: Distribution of class II NDV genotypes in Northern Africa**

Country	Paper	Isolate GenBank accession number	Geno type	Year of collection	Country	Isolate name	Reference
Egypt	1 (UNVERIFIED)	KU377781	VII 1.1	2015	Egypt	NDV/ EG/CH/ 18/2015	(Abd El Aziz <i>et al.</i> , 2016)
		KU377782	VII 1.1	2015	Egypt	NDV/EG/CH/24/2014	
		KU377783	VII 1.1	2015	Egypt	NDV/EG/CH/26/2014	
		KU377784	VII 1.1	2015	Egypt	NDV /EG/ CH/ 35/ 2014	
	2	FJ939313	II	2005	Egypt	NDV/Chicken/Egypt/1/2005	(Mohamed <i>et al.</i> , 2009)
	3	JX504077	VII 1.1	2012	Egypt	NDV/Egy/SH03/2012	(Abdel-Glil <i>et al.</i> , 2014)
		JX504078	VII 1.1	2012	Egypt	NDV/Egy/SH02/2012	
		JX504079	VII 1.1	2012	Egypt	NDV/Egy/SH04/2012	
		JX504080	VII 1.1	2012	Egypt	NDV/Egy/SH01/2012	
	4	MK604197	VII	2015	Egypt	NDV-EGYPT/1516F-2015	(Zanaty <i>et al.</i> , 2019)
		MK604198	VII	2015	Egypt	NDV-EGYPT/151309F-2015	
		MK604199	VII	2015	Egypt	NDV-EGYPT/15492F-2015	
		MK604200	VII	2015	Egypt	NDV-EGYPT/15986F-2015	
		MK604201	VII	2015	Egypt	NDV-EGYPT/15158F-2015	
		MK604202	VII	2016	Egypt	NDV-EGYPT/16280F-2016	
		MK604203	VII	2016	Egypt	NDV-EGYPT/16261F-2016	
		MK604204	VII	2016	Egypt	NDV-EGYPT/16553F-2016	
		MK604205	II	2016	Egypt	NDV-EGYPT/1610CV-2016	
		MK604206	VII	2016	Egypt	NDV-EGYPT/161158F-2016	
		MK604207	VII	2017	Egypt	NDV-EGYPT/17295F-2017	
		MK604208	VII	2017	Egypt	NDV-EGYPT/17273F-2017	
		MK604209	VII	2017	Egypt	NDV-EGYPT/171014F-14-2017	
		MK604210	VII	2017	Egypt	NDV-EGYPT/171014F-15-2017	
		MK604211	VII	2017	Egypt	NDV-EGYPT/171014F-16-2017	
		MK604212	II	2017	Egypt	NDV-EGYPT/17140F/S-2017	
		MK604213	II	2017	Egypt	NDV-EGYPT/17151F/S-2017	
		MK604214	II	2018	Egypt	NDV-EGYPT/18156F/S-2018	
		MK604215	I	2018	Egypt	NDV-EGYPT/18246F/S-2018	

		MK604216	VII	2018	Egypt	NDV-EGYPT/181210F-2018	
		MK604217	VII	2018	Egypt	NDV-EGYPT/18734F-2018	
		MK604218	VII	2018	Egypt	NDV-EGYPT/18403F-2018	
		MK604219	VII	2018	Egypt	NDV-EGYPT/18629F-2018	
		MK604220	VII	2018	Egypt	NDV-EGYPT/18238F-2018	
		MK604221	VII	2018	Egypt	NDV-EGYPT/1890FI-2018	
	5	KY075880	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Sharkia7/2016	(Orabi <i>et al.</i> , 2017)
		KY075881	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Ismailia8/2016	
		KY075882	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Damietta9/2016	
		KY075883	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Sharkia10/2016	
		KY075884	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Qualyobia11/2016	
		KY075885	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Qualyobia12/2016	
		KY075886	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Sharkia14/2016	
		KY075887	VII.1.1	2016	Egypt	NDV/chicken/Egypt/El-Arish15/2016	
		KY075888	VII.1.1	2016	Egypt	NDV/chicken/Egypt/El-Arish16/2016	
		KY075889	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Qualyobia26/2016	
		KY075890	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Dakhlia27/2016	
		KY075891	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Dakhlia28/2016	
		KY075892	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Ismailia29/2016	
		KY075893	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Dakhlia30/2016	
		KY075894	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Dakhlia31/2016	
		KY075895	VII.1.1	2016	Egypt	NDV/chicken/Egypt/Ismailia32/2016	
	6	KX231852	VII.1.1	2015	Egypt	NDV/chicken/Egypt/1/2015	(Megahed <i>et al.</i> , 2018)
		KX231853	VII.1.1	2015	Egypt	NDV/chicken/Egypt/2/2015	
		KX231851	VII.1.1	2015	Egypt	NDV/chicken/Egypt/3/2015	
		KX231854	VII.1.1	2015	Egypt	NDV/chicken/Egypt/4/2015	
	7	MN905162	VII.1.1	2019	Egypt	NDV Giza S4	(Shakal <i>et al.</i> , 2020)
	8	MF418017	VII	2007	Egypt	NDV/Chicken/EG-MN/NRC/2015	(Ahmed <i>et al.</i> , 2017)
		MF418018	VII	2007	Egypt	NDV/Chicken/EG-QU/NRC/2015	
		MF418019	VII	2007	Egypt	NDV/Chicken/EG-SH/NRC/2015	

		MF418020	VII	2007	Egypt	NDV/Chicken/EG -SH2/ NR/2015	
	<b>9</b>	MG966505	VII.1. 1	2014	Egypt	NDV/CHICKEN/EGYPT/48 Ob/NRC-CU/2014	(Amer, 2018)
		MG966506	VII.1. 1	2014	Egypt	NDV/CHICKEN/EGYPT/66 Oc/NRC/2014	
	<b>10</b>	MN137989	VII.1. 1	2019	Egypt	NDV/EG-Q/Ch/6/2019	(Desouky <i>et al.</i> , 2020)
		MN137990	VII.1. 1	2018	Egypt	NDV/EG-Q/Ch/31/2018	
		MN137991	VII.1. 1	2018	Egypt	NDV/EG-Q/Ch/11/2018	
		MN137992	VII.1. 1	2019	Egypt	NDV/EG-Q/Ch/47/2019	
		MN458502	VII.1. 1	2019	Egypt	NDV/EG-Q/Ch/4/2019	
		MN458503	VII.1. 1	2019	Egypt	NDV/EG-Q/Ch/5/2019	
		MN458504	VII.1. 1	2018	Egypt	NDV/EG-Q/Ch/9/2018	
		MN458505	VII.1. 1	2018	Egypt	NDV/EG-Q/Ch/12/2018	
	<b>11</b>	JX173098	VII.1. 1	2012	Egypt	NDV/Chicken/Giza/Egypt/ MRO/2012	(Radwan <i>et al.</i> , 2013)
		JX193771	II	2012	Egypt	NDV/Chicken/Behaira/Egy pt/MR6/2012	
		JX193772	II	2011	Egypt	NDV/Chicken/ Fayoum/Egypt/MR7/2011	
	<b>12</b>	MHO78055	VII.1. 1	2016	Egypt	NDV-ch-EG-CLEVB-F604- 2016	(Monir <i>et al.</i> , 2018)
	<b>13</b>	MT878465	VII.1. 1	2017	Egypt	Cattle_egret/Egypt/KFS- Elhamoul-1/2017	(Abd Elfatah <i>et al.</i> , 2021)
		MT878466	VII.1. 1	2018	Egypt	Cattle_egret/Egypt/KFS- Motobas-2/2018	
		MT878467	VII.1. 1	2017	Egypt	Sparrow/Egypt/KFS- Elhamoul-3/2017	
	<b>14</b>	MK495878	VII.1. 1	2011	Egypt	NDV/Egypt/Luxor/2011/1	(Tran <i>et al.</i> , 2020)
		MK495879	VII.1. 1	2011	Egypt	NDV/Egypt/Luxor/2011/2	
		MK495883	VII.1. 1	2012	Egypt	NDV/Egypt/Luxor/2012/2	
		MK495884	VII.1. 1	2012	Egypt	NDV/Egypt/Luxor/2012/3	
		MK495885	VII.1. 1	2012	Egypt	NDV/Egypt/Luxor/2012/4	
		MK495886	VII.1. 1	2012	Egypt	NDV/Egypt/Luxor/2012/5	
		MK495887	VII.1. 1	2012	Egypt	NDV/Egypt/Luxor/2012/7	
		MK495906	VII.1. 1	2012	Egypt	NDV/Egypt/Qena/2012/2	
		MK495909	VII.1. 1	2013	Egypt	NDV/Egypt/Aswan/2013/ 1	
		MK495910	VII.1. 1	2013	Egypt	NDV/Egypt/Luxor/2013/1	

	<b>15</b>	KY693681	VII.1.1	2014	Egypt	VNDV/CK/EG/VIR-SHABS/2014	(Ewies <i>et al.</i> , 2017)
		KY693682	VII.1.1	2014	Egypt	NDV/CK/EG/VIR-MMBS/2014	
		KY693683	VII.1.1	2016	Egypt	VNDV/CK/EG/VIR-FAY02/2016	
		KY693684	VII.1.1	2016	Egypt	VNDV/CK/EG/VIR-B.S01/2016	
	<b>16</b>	AB871426	VII.1.1	2011	Egypt	NDV/EG/CK/13/11	(Sultan <i>et al.</i> , 2015)
		AB871425	VII.1.1	2011	Egypt	NDV/EG/CK/20/11	
		AB871428	VII.1.1	2011	Egypt	NDV/EG/CK/67/11	
		AB871422	VII.1.1	2011	Egypt	NDV/EG/CK/83/11	
		AB871427	VII.1.1	2012	Egypt	NDV/EG/CK/101/12	
		AB871423	VII.1.1	2012	Egypt	NDV/EG/CK/129/12	
		AB863742	VII.1.1	2012	Egypt	NDV/EG/CK/135/12	
		AB871424	VII.1.1	2012	Egypt	NDV/EG/CK/146/12	
	<b>17</b>	MH445410	VII.1.1	2015	Egypt	NDV-Egypt-18-2015	(Abd El-Hamid <i>et al.</i> , 2020)
		MN519688	VII.1.1	2017	Egypt	NDV/Egypt/Ch/MR89/2017	
		MK984236	VII.1.1	2017	Egypt	NDV/Egypt/Ch/B36-F0/2017	
		MK984237	VII.1.1	2018	Egypt	NDV/Egypt/Ch/D30-F0/2018	
		MN519690	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MH6/2018	
		MN519692	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MDK3/2018	
		MN519693	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MQ3/2018	
		MK984238	VII.1.1	2018	Egypt	NDV/Egypt/Ch/R78-F0/2018	
		MN519689	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MGhl/2018	
		MN519694	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MK/2018	
		MN519687	VII.1.1	2018	Egypt	NDV/Egypt/Ch/MQ4/2018	
		MN519685	VII.1.1	2018	Egypt	NDV/Egypt/P/MR82/2018	
		MN519686	VII.1.1	2018	Egypt	NDV/Egypt/P/MR84/2018	
		MN519684	VII.1.1	2019	Egypt	NDV/Egypt/Ch/MN51/2019	
	<b>18</b>	FJ969393	II	2006	Egypt	NDV/chicken/Egypt/2/2006	(Mohamed <i>et al.</i> , 2011)
		FJ969394	II	2006	Egypt	NDV/chicken/Egypt/3/2006	

		FJ969395	II	2006	Egypt	NDV/chicken/Egypt/4/2006	
	<b>19</b>	KM288609	VII	2012	Egypt	NDV-B7-RLQP-CH-EG-12	(Saad <i>et al.</i> , 2017)
		KM288610	VII	2012	Egypt	NDV-B23-RLQP-CH-EG-12	
		KM288611	VII	2012	Egypt	NDV-B34-RLQP-CH-EG-12	
		KM288612	VII	2012	Egypt	NDV-B83-RLQP-CH-EG-12	
		KM288613	VII	2012	Egypt	NDV-B102-RLQP-CH-EG-12	
		KM288614	VII	2012	Egypt	NDV-B106-RLQP-CH-EG-12	
		KM288615	VII	2012	Egypt	NDV-B109-RLQP-CH-EG-12	
		KM288616	VII	2012	Egypt	NDV-B110-RLQP-CH-EG-12	
		KM288617	VII	2012	Egypt	NDV-B113-RLQP-CH-EG-12	
		KM288618	VII	2012	Egypt	NDV-B114-RLQP-CH-EG-12	
		KM288619	VII	2012	Egypt	NDV-B127-RLQP-CH-EG-12	
		KM288620	VII	2012	Egypt	NDV-B161-RLQP-CH-EG-12	
		KM288621	VII	2011	Egypt	NDV-F278-RLQP-CH-EG-11	
		KM288622	II	2012	Egypt	NDV-B81-RLQP-CH-EG-12	
		KP316015	VII	2013	Egypt	NDV-F460-RLQP-CH-EG-13	
		KP316016	VII	2014	Egypt	NDV-F388-RLQP-CH-EG-14	
			XXI.1.1	2021	Egypt	Chicken/Egypt/BSU24/2021	(Abozaid & Abdel-Moneim, 2022)
<b>Libya</b>	<b>1</b>	KP719224	VII.2	2013	Libya	APMV-1/chicken/Libya/13VIR/7225-1/2013	(Kammon <i>et al.</i> , 2015)
	<b>2</b>		VII.2	2015	Libya	APMV1/Libya/15VIR5368/2015	(Kammon <i>et al.</i> , 2018)
			VII.2	2015	Libya	APMV1/Libya/15VIR5371/2015	
			VI.1.1	2015	Libya	APMV1/Libya/15VIR5369/2015	

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