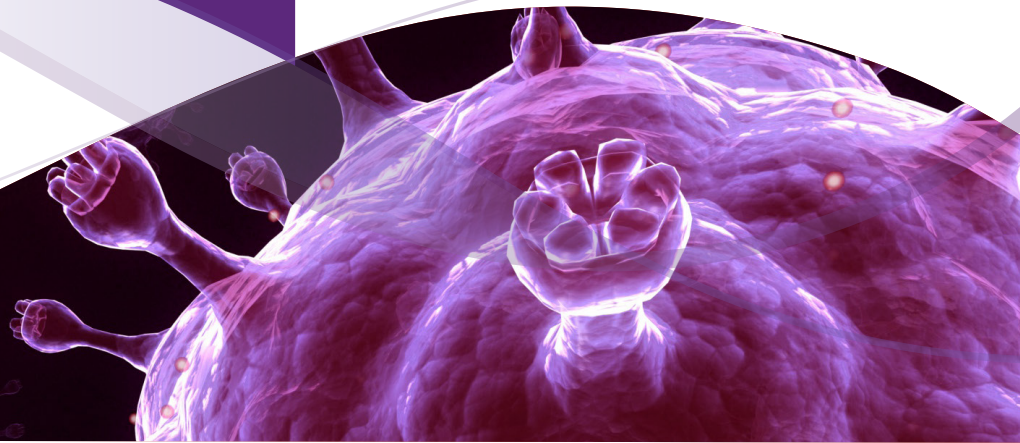


PRODUCT SPOTLIGHT



INFLUENZA RESEARCH MATERIALS

Influenza outbreaks affect us all, which is why it is essential that there are rapid and effective methods to diagnose, treat, and prevent infection. That's why ATCC has made it a priority to provide researchers with the authenticated and fully characterized reference materials needed to support their research on this respiratory virus.

Our growing collection of influenza research materials includes numerous Influenza A and B virus strains, including tissue culture-adapted and high-titer products. We also provide quantitative RNA preparations, antisera to Influenza A virus, and several monoclonal antibodies to highly pathogenic avian influenza hemagglutinins. Together, we can make incredible new discoveries!

Table 1: Influenza viruses

Description	Strain	Source	ATCC® No.	Host
Influenza A virus (H1N1)	A/Baltimore/JH-22377/2022	Human	VR-3403™	MDCK-SIAT1 cells
Influenza A virus (H1N1)	A/Baltimore/JH-22400/2022	Human	VR-3404™	MDCK-SIAT1 cells
Influenza A virus (H1N1)	A/California/07/2009 pdm09	Human	VR-1894™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/California/08/2009 pdm09	Human	VR-1895™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Denver/1/57	Human	VR-546™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Fort Monmouth/1/1947	Human	VR-1754™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Florida/3/2006	Human	VR-1893™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/FM/1/47	Human	VR-97™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Mal/302/54	Human	VR-98™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/New Jersey/8/76 (Hsw N1)	Human	VR-897™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/NWS/33	Human	VR-219™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/PR/8/34	Human	VR-1469™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/PR/8/34	Human	VR-95™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Swine/1976/31	Swine	VR-99™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Swine/1976/31	Swine	VR-1682™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/Swine/Iowa/15/30	Swine	VR-333™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/Swine/Iowa/15/30	Swine	VR-1683™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC1/2009	Human	VR-1736™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC2/2009	Human	VR-1737™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/Virginia/ATCC3/2009	Human	VR-1738™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1)	A/Weiss/43	Human	VR-96™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/WS/33	Human	VR-825™	Embryonated chicken eggs
Influenza A virus (H1N1)	A/WS/33	Human	VR-1520™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1), High titer	A/PR/8/34	Human	VR-95PQ™	Embryonated chicken eggs

Table 1: Influenza viruses (continued)

Description	Strain	Source	ATCC® No.	Host
Influenza A virus (H1N1)pdm09	A/California/04/2009 (H1N1)pdm09	Human	VR-1805™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H1N1pdm)	A/California/07/2009 NYMC X-179A	Human	VR-1884™	Embryonated chicken eggs
Influenza A virus (H1N1)pdm09	A/Connecticut/11/2023(H1N1)pdm09	Human	VR-3341™	MDCK-SIAT1 cells
Influenza A virus (H3N2)	A/Aichi/2/68	Human	VR-547™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Aichi/2/68	Human	VR-1680™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H3N2)	A/Alice	Human	VR-776™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Baltimore/JH-286/2021	Human	VR-3397™	MDCK-SIAT1 cells
Influenza A virus (H3N2)	A/Baltimore/JH-335/2022	Human	VR-3398™	MDCK-SIAT1 cells
Influenza A virus (H3N2)	A/Baltimore/JH-0440/2022	Human	VR-3401™	MDCK-SIAT1 cells
Influenza A virus (H3N2)	A/Baltimore/JH-0586/2022	Human	VR-3400™	MDCK-SIAT1 cells
Influenza A virus (H3N2)	A/California/2/2014	Human	VR-1938™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H3N2)	A/Hong Kong/4801/2014	Human	VR-1990™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Hong Kong/8/68	Human	VR-544™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Hong Kong/8/68	Human	VR-1679™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H3N2)	A/Port Chalmers/1/73	Human	VR-810™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Switzerland/9715293/2013	Human	VR-1837™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Victoria/3/75	Human	VR-822™	Embryonated chicken eggs
Influenza A virus (H3N2)	A/Virginia/ATCC6/2012	Human	VR-1811™	MDCK cells (ATCC® CCL-34™)
Influenza A virus (H3N2)	A/Wisconsin/15/2009	Human	VR-1882™	Embryonated chicken eggs
Influenza A virus (H3N2)	MRC 2	Human	VR-777™	Embryonated chicken eggs
Influenza A virus (H3N2), High titer	A/Hong Kong/8/68	Human	VR-544PQ™	Embryonated chicken eggs
Influenza A virus (H3N2), High titer	A/Wisconsin/15/2009	Human	VR-1882PQ™	Embryonated chicken eggs
Influenza A virus (H3N8)	A/Equine/2/Miami/63	Equine	VR-317™	Embryonated chicken eggs
Influenza A virus (H5N2)	A/ruddy turnstone/New Jersey/82821/2001	Avian	VR-3415™	Embryonated chicken eggs
Influenza A virus (H9N7)	A/Shorebird/Delaware Bay/31/1996	Avian	VR-3409™	Embryonated chicken eggs
Influenza B virus	B/Allen/45	Human	VR-102™	Embryonated chicken eggs
Influenza B virus	B/Baltimore/JH002/2021	Human	VR-3405™	MDCK-SIAT1 cells
Influenza B virus	B/Baltimore/JH003/2021	Human	VR-3406™	MDCK-SIAT1 cells
Influenza B virus	B/Brigit	Human	VR-786™	Embryonated chicken eggs
Influenza B virus	B/Colorado/06/2017	Human	VR-3416™	Embryonated chicken eggs
Influenza B virus	B/GL/1739/54	Human	VR-103™	Embryonated chicken eggs
Influenza B virus	B/Hong Kong/5/72	Human	VR-823™	Embryonated chicken eggs
Influenza B virus	B/Lee/40	Human	VR-101™	Embryonated chicken eggs
Influenza B virus	B/Lee/40	Human	VR-1535™	MDCK cells (ATCC® CCL-34™)
Influenza B virus	B/Maryland/1/59	Human	VR-296™	Embryonated chicken eggs
Influenza B virus	B/Mass/3/66	Human	VR-523™	Embryonated chicken eggs
Influenza B virus	B/R22 Barbara	Human	VR-788™	Embryonated chicken eggs
Influenza B virus	B/R5	Human	VR-787™	Embryonated chicken eggs
Influenza B virus	B/R75	Human	VR-789™	Embryonated chicken eggs
Influenza B virus	B/Russia/69	Human	VR-790™	Embryonated chicken eggs
Influenza B virus	B/Taiwan/2/62	Human	VR-295™	Embryonated chicken eggs
Influenza B virus	B/Taiwan/2/62	Human	VR-1735™	MDCK cells (ATCC® CCL-34™)
Influenza B virus	B/Virginia/ATCC5/2012	Human	VR-1807™	MDCK cells (ATCC® CCL-34™)
Influenza B virus (Victoria Lineage)	B/Florida/78/2015	Human	VR-1931™	MDCK cells (ATCC® CCL-34™)
Influenza B virus (Victoria Lineage)	B/Florida/78/2015	Human	VR-1930™	Embryonated chicken eggs
Influenza B virus (Yamagata Lineage)	B/Massachusetts/2/2012	Human	VR-1813™	Embryonated chicken eggs

Table 1: Influenza viruses (continued)

Description	Strain	Source	ATCC® No.	Host
Influenza B virus (Yamagata Lineage)	B/Wisconsin/1/2010	Human	VR-1883™	Embryonated chicken eggs
Influenza B virus (Yamagata Lineage)	B/Wisconsin/1/2010 BX-41A	Human	VR-1885™	Embryonated chicken eggs
Influenza B virus (Yamagata Lineage), High titer	B/Florida/4/2006	Human	VR-1804PQ™	Embryonated chicken eggs

Table 2: Synthetic RNA

Description	Strain	Genetic Target	ATCC® No.
Avian Influenza A virus (H5N1)	A/white-tailed eagle/Japan/OU-1/2022	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3436SD™
Avian Influenza A virus (H5N6)	A/goose/Guangdong/GS018/2015	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3439SD™
Avian Influenza A virus (H7N7)	A/chicken/Wenzhou/334b/2013	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3438SD™
Avian Influenza A virus (H7N9)	A/Shanghai/4664T/2013	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3437SD™
Avian Influenza A virus (H9N2)	A/ostrich/Yunnan/438/2014	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3440SD™
Influenza B virus (Victoria lineage)	B/Brisbane/60/2008	One construct includes the full genes for the HA and NP regions. The other construct includes the full genes for the NA, M1/M2, and NEP/NS1 regions.	VR-3385SD™

Table 3: Genomic RNA

Description	Strain	Source	ATCC® No.	Significance
Influenza A virus (H1N1)	A/Baltimore/JH-22377/2022	Human	VR-3403D™	H1N1
Influenza A virus (H1N1)	A/Baltimore/JH-22400/2022	Human	VR-3404D™	H1N1
Influenza A virus (H1N1)	A/California/07/2009 (H1N1)pdm09	Human	VR-1894DQ™	H1N1
Influenza A virus (H1N1)	A/California/07/2009 NYMC X-179A	Classical reassortant virus	VR-1884DQ™	H1N1pdm
Influenza A virus (H1N1)	A/Florida/3/2006	Human	VR-1893DQ™	H1N1
Influenza A virus (H1N1)	A/PR/8/34	Human	VR-95DQ™	H1N1
Influenza A virus (H1N1)	A/PR/8/34	Human	VR-1469DQ™	H1N1
Influenza A virus (H1N1)	A/Virginia/ATCC1/2009	Human	VR-1736D™	2009 H1N1
Influenza A virus (H1N1)	A/Virginia/ATCC1/2009	Human	VR-1736DQ™	2009 H1N1
Influenza A virus (H1N1)	A/Virginia/ATCC2/2009	Human	VR-1737D™	2009 H1N1
Influenza A virus (H1N1)	A/Virginia/ATCC3/2009	Human	VR-1738D™	2009 H1N1
Influenza A virus (H1N1)	A/Swine/1976/31	Swine	VR-1682D™	H1N1
Influenza A virus (H1N1)	A/Swine/Iowa/15/30	Swine	VR-1683D™	H1N1
Influenza A virus (H1N1) pdm09	A/Connecticut/11/2023	Human	VR-3441D™	H1N1
Influenza A virus (H3N2)	A/Aichi/2/68	Human	VR-1680D™	H3N2
Influenza A virus (H3N2)	A/Baltimore/JH-286/2021	Human	VR-3397D™	H3N2
Influenza A virus (H3N2)	A/Baltimore/JH-335/2022	Human	VR-3398D™	H3N2
Influenza A virus (H3N2)	A/Baltimore/JH-0440/2022	Human	VR-3401D™	H3N2
Influenza A virus (H3N2)	A/Baltimore/JH-0586/2022	Human	VR-3400D™	H3N2
Influenza A virus (H3N2)	A/Hong Kong/8/68	Human	VR-1679D™	H3N2
Influenza A virus (H3N2)	A/Wisconsin/15/2009	Human	VR-1882DQ™	H3N2
Influenza A virus (H3N2)	A/Wisconsin/67/2005	Human	VR-1881DQ™	H3N2

Table 3: RNA (continued)

Description	Strain	Source	ATCC® No.	Significance
Influenza A virus (H3N2)	A/Virginia/ATCC6/2012	Human	VR-1811D™	H3N2
Influenza B virus	B/Baltimore/JH002/2021	Human	VR-3405D™	
Influenza B virus	B/Baltimore/JH003/2021	Human	VR-3406D™	
Influenza B virus	B/Florida/4/2006	Human	VR-1804DQ™	Yamagata lineage
Influenza B virus	B/Florida/78/2015	Human	VR-1931DQ™	Victoria lineage
Influenza B virus	B/Hong Kong/5/72	Unknown	VR-823DQ™	
Influenza B virus	B/Lee/40	Human	VR-101DQ™	
Influenza B virus	B/Lee/40	Human	VR-1535D™	
Influenza B virus	B/Massachusetts/2/2012	Human	VR-1813D™	Yamagata lineage
Influenza B virus	B/Massachusetts/2/2012	Human	VR-1813DQ™	Yamagata lineage
Influenza B virus	B/Taiwan/2/62	Human	VR-1735D™	
Influenza B virus	B/Wisconsin/1/2010	Human	VR-1883DQ™	Yamagata lineage
Influenza B virus	B/Wisconsin/1/2010 BX-41A	Human	VR-1885DQ™	Yamagata lineage


Table 4: Antisera

Description	Strain	ATCC® No.	Comments
Influenza A (H3N8) antiserum	Against A/Equine/2/Miami/1/63 (ATCC® VR-317™)	VR-1287™	NIAID V-301-571-552
Influenza A antiserum	Against A2/Japan/170/62 (ATCC® VR-40™)	VR-1284™	NIAID V-301-541-552
Influenza A antiserum	Against A2/Taiwan/1/64 (ATCC® VR-480™)	VR-1285™	NIAID V-301-551-552

Table 5: Monoclonal antibodies

Description	Antigen	ATCC® No.	Comments
Monoclonal antibody 1F7 to Influenza A virus hemagglutinin H5 (HPAI)	Against H5 hemagglutinin from strain A/Hong Kong/483/1997 (H5N1)	VR-1608™	H5-specific
Monoclonal antibody 6D5 to Influenza A virus hemagglutinin H5 (HPAI)	Against H5 hemagglutinin from strain A/Hong Kong/483/1997 (H5N1)	VR-1609™	H5-specific
Monoclonal antibody 3D3 to Influenza A virus hemagglutinin H7	Against the HA1 domain of the H7 hemagglutinin from strain A/Chicken/Netherlands/1/03 (H7N7)	VR-1641™	H7-specific
Monoclonal antibody 1D8 to Influenza A virus hemagglutinin H9	Against the HA1 domain of the H9 hemagglutinin from strain A/Guinea Fowl/Hong Kong/WF10/99 (H9N2)	VR-1642™	H9-specific
Monoclonal antibody 5D3 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/South Carolina/1/1918 (H1N1)	VR-1668™	IgG2ak
Monoclonal antibody 58C4 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/South Carolina/1/1918 (H1N1)	VR-1672™	IgG2bk
Monoclonal antibody EB11 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1741™	IgG1k
Monoclonal antibody AE7 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1742™	IgG1k
Monoclonal antibody FB8 to Influenza A virus hemagglutinin H1	Against H1 hemagglutinin from strain A/Brisbane/59/2007 (H1N1)	VR-1743™	IgG1k and IgG2bk

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