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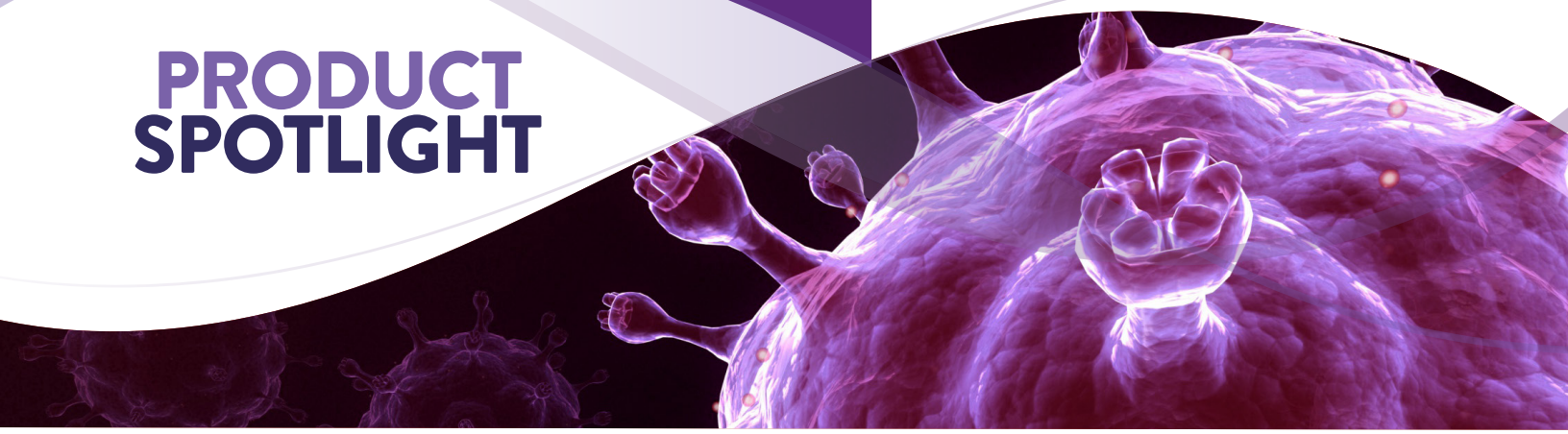
PRODUCT SPOTLIGHT



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 genomic and synthetic 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/Washington/10/2008	Human	VR-1987™	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™)

Table 1: Influenza viruses (continued)

Description	Strain	Source	ATCC® No.	Host
Influenza A virus (H1N1), High titer	A/PR/8/34	Human	VR-95PQ™	Embryonated chicken eggs
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 (H1N1)pdm09	A/Washington/29/2009	Human	VR-1988™	MDCK cells (ATCC® CCL-34™)
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)	A/Wisconsin/67/2005	Human	VR-1881™	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-791™	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/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/ATCC4/2009	Human	VR-1784™	MDCK cells (ATCC® CCL-34™)

Table 1: Influenza viruses (continued)

Description	Strain	Source	ATCC® No.	Host
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
Influenza B virus (Yamagata Lineage)	B/Wisconsin/1/2010	Human	VR-1883™	Embryonated chicken eggs
Influenza B virus (Yamagata Lineage), High titer	B/Wisconsin/1/2010	Human	VR-1883PQ™	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)	B/Florida/4/2006	Human	VR-1804™	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 A virus (H1N1)	A/Brisbane/59/2007	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-3386SD™
Influenza A virus (H1N1) pdm09	A/Netherlands/2629/2009	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-3388SD™
Influenza A virus (H3N2)	A/Hiroshima/52/2005	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-3387SD™
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™
Influenza B virus (Victoria lineage)	B/Malaysia/2506/2004	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-3384SD™

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/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

Table 3: Genomic RNA (continued)

Description	Strain	Source	ATCC® No.	Significance
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/California/07/2009 (H1N1)pdm09	Human	VR-1894DQ™	H1N1
Influenza A virus (H1N1) pdm09	A/California/07/2009 NYMC X-179A	Classical reassortant virus	VR-1884DQ™	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/Hong Kong/8/68	Human	VR-1679DQ™	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
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/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/Taiwan/2/62	Human	VR-1735D™	
Influenza B virus (Victoria Lineage)	B/Florida/78/2015	Human	VR-1931DQ™	Victoria lineage
Influenza B virus (Yamagata Lineage)	B/Florida/4/2006	Human	VR-1804DQ™	Yamagata lineage
Influenza B virus (Yamagata Lineage)	B/Massachusetts/2/2012	Human	VR-1813D™	Yamagata lineage
Influenza B virus (Yamagata Lineage)	B/Massachusetts/2/2012	Human	VR-1813DQ™	Yamagata lineage
Influenza B virus (Yamagata Lineage)	B/Wisconsin/1/2010	Human	VR-1883DQ™	Yamagata lineage
Influenza B virus (Yamagata Lineage)	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	Antibody Class	ATCC® No.	Comments
Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/Brisbane/59/2007 (H1N1), clone EB11	IgG1κ	VR-1741™	H1N1
Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/Brisbane/59/2007 (H1N1), clone AE7	IgG1κ	VR-1742™	H1N1
Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/Brisbane/59/2007 (H1N1), clone FB8	IgG1κ and IgG2bκ	VR-1743™	H1N1

Table 5: Monoclonal antibodies (continued)

Description	Antibody Class	ATCC® No.	Comments
Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/South Carolina/1/1918 (H1N1), Clone 5D3 (produced in vitro)	IgG2aκ	VR-1668™	H1N1
Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/South Carolina/1/1918 (H1N1), clone 58C4 (produced in vitro)	IgG2bκ	VR-1672™	H1N1
Monoclonal Anti-Influenza A virus (H1N1) H1 Hemagglutinin (HA), A/South Carolina/1/18 (1918), Clone 6B9 (produced in vitro)	IgG2aκ	VR-1669™	H1N1
Monoclonal Anti-Influenza A virus (H1N1) N1 Neuraminidase (NA), A/South Carolina/1/18 (1918), Clone 9D9 (produced in vitro)	IgG1κ	VR-1676™	H1N1
Monoclonal Anti-Influenza A virus (H1N1) H1 Hemagglutinin (HA), A/South Carolina/1/18 (1918), Clone 39E4 (produced in vitro)	IgG2aκ	VR-1670™	H1N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Hong Kong/483/1997, Clone 1F7 (produced in vitro)	IgG2bκ	VR-1608™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Hong Kong/483/1997, Clone 6D5 (produced in vitro)	IgG2bκ	VR-1609™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Vietnam/1203/2004, Clone 6B4 (produced in vitro)	IgG2aκ	VR-1652™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Vietnam/1203/2004, Clone 10C8 (produced in vitro)	IgG2aκ	VR-1649™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Vietnam/1203/2004, Clone 1C10 (produced in vitro)	IgG2aκ	VR-1654™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Vietnam/1203/2004, Clone 464E11 (produced in vitro)	IgG2aκ	VR-1648™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemgglutinin (HA), A/Vietnam/1203/2004, Clone 11F4 (produced in vitro)	IgG2aκ	VR-1653™	H5N1
Monoclonal Anti-Influenza A virus (H5N1) H5 Hemagglutinin (HA), A/Vietnam/1203/2004, Clone 3F6 (produced in vitro)	IgG2aκ	VR-1647™	H5N1
Monoclonal antibody 3D3 to Influenza A virus (H7N7) HA1 Hemagglutinin, A/chicken/ Netherlands/1/03	IgG1κ	VR-1641™	H7N7
Monoclonal antibody 1D8 to Influenza A virus (H9N2) HA1 Hemagglutinin, A/guinea fowl/ Hong Kong/WF 10/99	IgG1κ	VR-1642™	H9N2

10801 University Boulevard
Manassas, Virginia 20110-2209

703.365.2700 703.365.2701 sales@atcc.org www.atcc.org

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