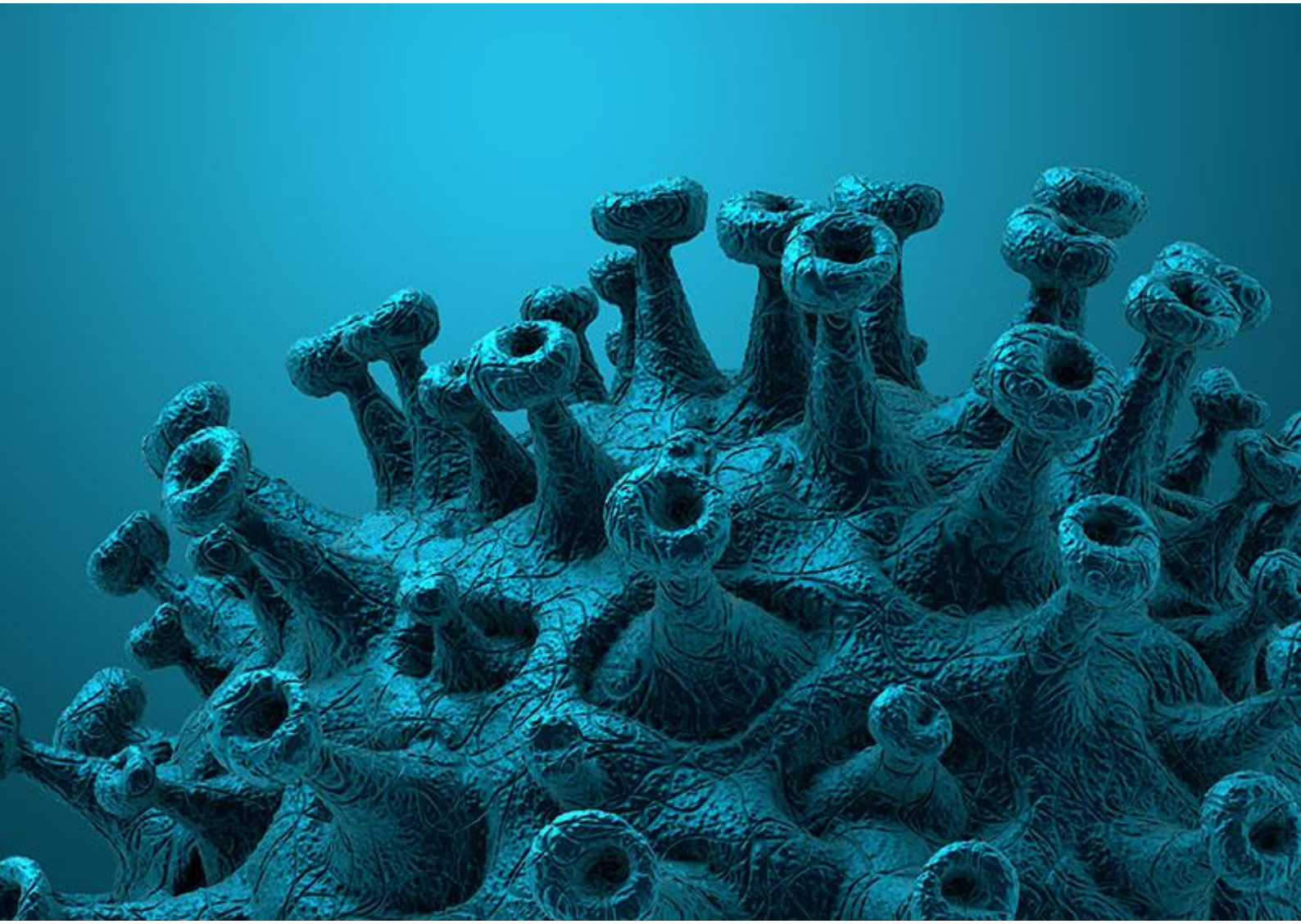
Influenza Virus Antigens



Influenza Virus Types A and B

Creative Diagnostics provides full range of recombinant and native influenza virus antigens for virus and vaccine research.

CD Creative Diagnostics®

Content

Influenza virus is a respiratory system virus of the Orthomyxoviridae family. Influenza virus possesses negative-sense single-strand RNAs, i.e. PB1, PB2, PA, HA, NP, NA, M and NS, coding 12-14 proteins depends on strains.

- **Hemagglutinin (HA)** HA can bind to sialic acid receptor on cell surface for fusing the viral envelope with the late endosomal membrane under low pH environment.
- **Neuraminidase (NA)** NA helps viruses to bud from the plasma membrane of a host cell.
- **Nucleoprotein (NP)** NP gene can cross the species barrier by reassortment and become adapted by mutation to the new host.
- **Nonstructural protein (NS) and nuclear export protein (NEP)** NS gene codes two proteins of NS1 and NEP. NS1 is required for viral replication and inhibits pre-mRNA splicing by tightly binding to a specific stem-bulge of U6 snRNA. NEP participates in regulating the accumulation of viral genomic vRNA and antigenomic cRNA as well as viral mRNA synthesized by the viral RNA-dependent RNA polymerase.
- **Matrix proteins (M1)** M gene codes two proteins of M1 and M2. M1 forms a coat inside the viral envelope. M2 is an intriguing transmembrane protein as a proton channel, which is a target of the anti-influenza drugs.

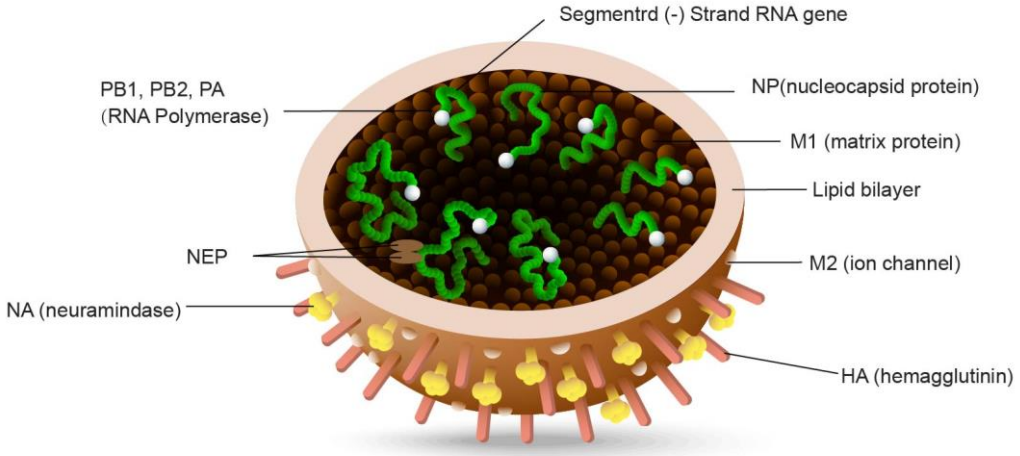


Fig.1 Scheme of influenza life cycle

Human influenza virus infections have a world-wide distribution. There have been four influenza pandemics since the turn of the 20th century, occurring in 1918 (H1N1), 1957 (H2N2), 1968 (H3N2), and 2009 (H1N1pdm09 virus). The influenza epidemics are estimated to cause approximately 500,000 deaths per year world-wide. Identifying and monitoring of influenza viruses are required to better assess the potential risk on public health. Creative Diagnostics offer a wide range of high-quality antigens of human influenza virus have demonstrated performance on a variety of immunoassay platforms. The purity of each antigens is >90 %. These antigens could be utilized in the detection of antibodies to the influenza viruses in ELISA, hemagglutination inhibition tests and Western blotting.

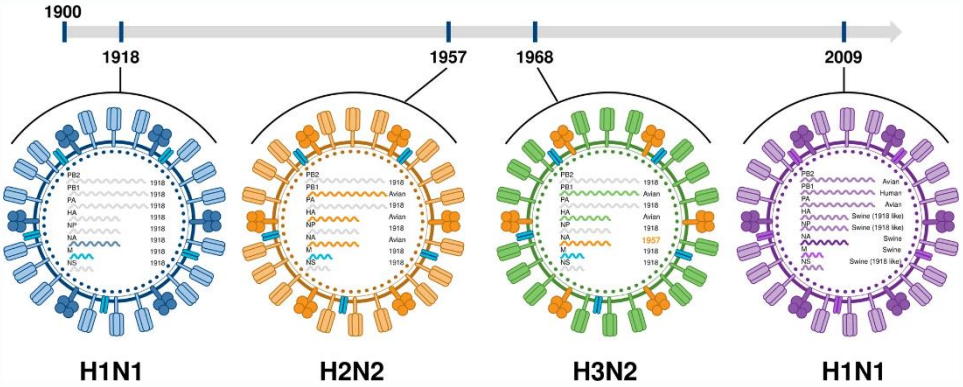


Fig. 2 The four influenza pandemics (Harrington WN, et al. 2021)

Recombinant Influenza Antigen Product List

Influenza A Virus H1N1

Strain	Target	Cat. No	Expression System
A/Albany/12/1951	HA1	DAG2243	HEK293 cells
A/Beijing/01/2009	HA	DAG2179	HEK293 cells
A/Beijing/22808/2009	HA1	DAG-H10111	HEK293 cells
A/Beijing/22808/2009	HA	DAG2180	HEK293 cells
A/Bel/1942	HA1	DAG2244	HEK293 cells
A/Brevig Mission/1/1918	HA	DAG-H10080	HEK293 cells
A/Brevig Mission/1/1918	HA1	DAG-H10086	HEK293 cells
A/Brevig Mission/1/1918	NP	DAG-H10119	Insect cells
A/Brevig Mission/1/1918	M1	DAG-H10114	E. coli
A/Brisbane/02/2018	HA	DAGC632	HEK293 cells
A/Brisbane/02/2018	HA1	DAGC275	HEK293 cells
A/Brisbane/02/2018	NA	DAGC633	Insect cells
A/Brisbane/02/2018	NP	DAGC634	Insect cells
A/Brisbane/10/2007	NP	DAG2328	E. coli
A/Brisbane/59/2007	HA1	DAG2202	HEK293 cells
A/Brisbane/59/2007	HA	DAG1688	HEK293 cells
A/California/04/2009	HA1	DAG-H10082	HEK293 cells
A/California/04/2009	HA ECD	DAG-H10083	Insect cells
A/California/04/2009	HA ECD	DAG-H10078	HEK293 cells
A/California/04/2009	HA (mutated)	DAG-H10081	HEK293 cells
A/California/04/2009	NA	DAG-H10088	HEK293 cells
A/California/04/2009	NA	DAG-H10113	HEK293 cells
A/California/04/2009	NA	DAG-H10106	HEK293 cells
A/California/04/2009	NA	DAG-H10079	HEK293 cells
A/California/04/2009	NA	DAG-H10110	Insect cells
A/California/04/2009	NS1	DAG2336	E. coli
A/California/04/2009	NS1	DAG2337	HEK293 cells
A/California/04/2009	M1	DAG2306	E. coli
A/California/06/2009	NP	DAG2324	E. coli
A/California/06/2009	HA	DAG2207	HEK293 cells
A/California/06/2009	HA1	DAG2247	HEK293 cells
A/California/07/2009	HA	DAG2181	HEK293 cells
A/California/07/2009	HA	DAG4439	Insect cells
A/California/07/2009	NP	DAGC646	Insect cells
A/England/195/2009	HA	DAG-H10100	HEK293 cells

A/England/195/2009	HA1	DAG-H10101	HEK293 cells
A/Guangdong-Maonan/SWL11536/2019	HA	DAGC621	HEK293 cells
A/Guangdong-Maonan/SWL11536/2019	NP	DAGC622	Insect cells
A/Hawaii/19/2007	HA	DAG2184	HEK293 cells
A/Hawaii/70/2019	NP	DAGC630	Insect cells
A/Memphis/1/1987	HA1	DAG2256	HEK293 cells
A/Mexico/InDRE4114/2009	HA	DAG2203	HEK293 cells
A/Michigan/45/2015	HA	DAGA-3986	HEK293 cells
A/Michigan/45/2015	HA1	DAGA-3987	HEK293 cells
A/Michigan/45/2015	NA	DAGC638	Insect cells
A/Michigan/45/2015	NP	DAGC639	Insect cells
A/New Caledonia/20/1999	HA	DAG1604	Insect cells
A/New Caledonia/20/1999	HA	DAG2221	HEK293 cells
A/New Caledonia/20/1999	HA1	DAG2280	HEK293 cells
A/New York/06/2009	HA	DAG2187	HEK293 cells
A/New York/18/2009	HA	DAG-H10104	HEK293 cells
A/New York/18/2009	HA1	DAG-H10105	HEK293 cells
A/New York/6868/2009	HA	DAG2188	HEK293 cells
A/Ohio/01/2007	HA	DAG2212	HEK293 cells
A/Ohio/07/2009	HA	DAG-H10099	HEK293 cells
A/Ohio/07/2009	HA1	DAG-H10115	HEK293 cells
A/Ohio/UR06-0091/2007	HA1	DAG-H10091	HEK293 cells
A/Ohio/UR06-0091/2007	HA	DAG-H10096	HEK293 cells
A/Phila/1935	HA1	DAG2260	HEK293 cells
A/Puerto Rico/8/1934	HA1	DAG-H10090	HEK293 cells
A/Puerto Rico/8/1934	HA	DAG-H10094	HEK293 cells
A/Puerto Rico/8/1934/Mount Sinai	NP	DAG-H10087	Insect cells
A/Puerto Rico/8/1934/Mount Sinai	NS2	DAG-H10108	E. coli
A/Puerto Rico/8/1934/Mount Sinai	NS1	DAG-H10107	E. coli
A/Puerto Rico/8/1934/Mount Sinai	M1	DAG-H10109	E. coli
A/Solomon Islands/3/2006	HA	DAG1605	Insect cells
A/Solomon Islands/3/2006	HA	DAG1687	HEK293 cells
A/Solomon Islands/3/2006	HA1	DAG1774	HEK293 cells
A/South Carolina/1/2018	HA1	DAG1689	HEK293 cells
A/South Carolina/1/2018	HA	DAG2213	HEK293 cells
A/Texas/05/2009	HA	DAG2189	HEK293 cells
A/Texas/05/2009	HA1	DAG-H10103	HEK293 cells
A/USSR/90/1977	HA	DAG-H10118	Insect cells
A/USSR/90/1977	NA	DAG-H10116	HEK293 cells
A/USSR/92/1977	HA	DAG2265	HEK293 cells

A/Victoria/2570/2019 pdm09-like virus	HA	DAG-WT1001	HEK293 cells
A/Wisconsin/588/2019	NA	DAGC609	Insect cells
A/Wisconsin/588/2019	NP	DAGC610	Insect cells
A/Wisconsin/588/2019	HA	DAG-WT829	HEK293 cells
A/WSN/1933	HA1	DAG-H10092	HEK293 cells
AWSN/1933	HA	DAG-H10093	HEK293 cells

Influenza A Virus H2N2

Strain	Target	Cat. No	Expression System
A/Ann Arbor/6/1960	NP	DAG-H10127	Insect cells
A/Canada/720/2005	HA1	DAG2238	HEK293 cells
A/Canada/720/2005	HA	DAG2223	HEK293 cells
A/Guiyang/1/1957	HA1	DAG-H10129	HEK293 cells
A/Guiyang/1/1957	HA	DAG-H10130	HEK293 cells
A/Japan/305/1957	HA1	DAG-H10128	HEK293 cells
A/Japan/305/1957	HA	DAG2211	HEK293 cells

Influenza A Virus H3N2

Strain	Target	Cat. No	Expression System
A/Aichi/2/1968	HA1	DAG-H10134	HEK293 cells
A/Aichi/2/1968	HA	DAG2205	HEK293 cells
A/Aichi/2/1968	M1	DAG-H10148	E. coli
A/Aichi/2/1968	NA	DAG-H10150	HEK293 cells
A/Aichi/2/1968	NP	DAG-H10149	Insect cells
A/Babol/36/2005	NA	DAG-H10144	HEK293 cells
A/Babol/36/2005 (E119V)	NA	DAG-H10140	HEK293 cells
A/Babol/36/2005 (H274Y)	NA	DAG-H10143	HEK293 cells
A/Babol/36/2005 (N294S)	NA	DAG-H10141	HEK293 cells
A/Babol/36/2005 (R292K)	NA	DAG-H10142	HEK293 cells
A/Bangkok/1/1979	HA	DAG-WT828	HEK293 cells
A/Beijing/32/1992	HA	DAG2154	HEK293 cells
A/Brisbane/10/2007	HA1	DAG2282	HEK293 cells
A/Brisbane/10/2007	HA	DAG2224	HEK293 cells
A/Brisbane/10/2007	NA	DAG4441	Insect cells
A/Brisbane/10/2007	NS1	DAG2335	E. coli
A/Brisbane/10/2007	NP	DAG2329	E. coli
A/Brisbane/299/2011	HA1	DAG2246	HEK293 cells
A/California/07/2004	HA	DAG-H10153	Insect cells
A/Cambodia/E0826360/2020	HA	DAGC617	HEK293 cells

A/Cambodia/E0826360/2020	NA	DAGC619	Insect cells
A/Cambodia/E0826360/2020	NP	DAGC620	Insect cells
A/Chiang Rai/277/2011	HA1	DAG2249	HEK293 cells
A/Christchurch/4/1985	HA	DAG2155	HEK293 cells
A/Darwin/9/2021-like virus	HA	DAG-WT1000	HEK293 cells
A/England/42/1972	HA	DAG2156	HEK293 cells
A/Fujian/411/2002	HA	DAG2157	HEK293 cells
A/Guizhou/54/1989	HA	DAG2158	HEK293 cells
A/Hong Kong/1/1968	HA	DAG-H10152	Insect cells
A/Hong Kong/1/1968	NA	DAG2639	Insect cells
A/Hong Kong/1/1968	NP	DAG-H10151	Insect cells
A/Hong Kong/2671/2019	HA	DAGC623	HEK293 cells
A/Hong Kong/2671/2019	NP	DAGC624	Insect cells
A/Hong Kong/45/2019	NP	DAGC631	Insect cells
A/Hong Kong/4801/2014	HA	DAGC640	Insect cells
A/Hong Kong/4801/2014	NA	DAGC641	Insect cells
A/Hong Kong/4801/2014	NP	DAGC642	Insect cells
A/Hong Kong/8/1968	HA	DAG2159	HEK293 cells
A/Iowa/08/2011	HA1	DAG2253	HEK293 cells
A/Johannesburg/33/1994	HA	DAG2160	HEK293 cells
A/Kansas/13/2009	HA1	DAG2254	HEK293 cells
A/Kansas/14/2017	NP	DAGC637	Insect cells
A/Kansas/14/2017	HA	DAGC635	HEK293 cells
A/Kansas/14/2017	NA	DAGC636	Insect cells
A/Kentucky/05/2011	HA1	DAG2255	HEK293 cells
A/Minnesota/09/2010	HA1	DAG2257	HEK293 cells
A/Mississippi/1/1985	HA	DAG2161	HEK293 cells
A/New York/55/2004	HA	DAG1610	Insect cells
A/Ontario/RV1273/2005	HA1	DAG2258	HEK293 cells
A/Panama/07/1999	HA	DAG2162	HEK293 cells
A/Pennsylvania/14/2010	HA1	DAG2259	HEK293 cells
A/Perth/16/2009	HA1	DAG-H10146	HEK293 cells
A/Perth/16/2009	HA	DAG-H10145	HEK293 cells
A/Perth/16/2009	HA1	DAG2569	Insect cells
A/Philippines/2/1982	HA	DAG2163	HEK293 cells
A/Singapore/INFIMH-16-0019/2016	HA1	DAGA-3990	HEK293 cells
A/Singapore/INFIMH-16-0019/2016	HA	DAGA-3989	HEK293 cells
A/Switzerland/8060/2017	HA	DAGA-3988	HEK293 cells
A/Switzerland/9715293/2013	HA	DAGC647	Insect cells
A/Switzerland/9715293/2013	NP	DAGC648	Insect cells

A/Sydney/5/1997	HA	DAG2164	HEK293 cells
A/Texas/1/1977	HA	DAG2165	HEK293 cells
A/Victoria/208/2009	HA	DAG2195	HEK293 cells
A/Victoria/210/2009	HA1	DAG2283	HEK293 cells
A/Victoria/3/1975	HA	DAG2166	HEK293 cells
A/Victoria/361/2011	HA1	DAG2266	HEK293 cells
A/Victoria/361/2011	HA	DAG2190	HEK293 cells
A/Wisconsin/15/2009	HA	DAG2197	HEK293 cells
A/Wisconsin/67/2005	HA	DAG1612	Insect cells
A/Wisconsin/67/X-161/2005	HA	DAG-H10137	Insect cells
A/Wisconsin/67/X-161/2005	HA1	DAG2239	HEK293 cells
A/Wuhan/359/1995	HA	DAG2167	HEK293 cells
A/Wyoming/3/2003	HA1	DAG2240	HEK293 cells
A/Wyoming/3/2003	HA	DAG2226	HEK293 cells
A/Wyoming/3/2003	HA	DAG1611	Insect cells
A/Wyoming/3/2003	M1	DAG2308	E. coli
A/X-31	HA	DAG-H10154	HEK293 cells

Influenza A Virus H5N1

Strain	Target	Cat. No	Expression System
A/Anhui/1/2005	HA1	DAG-H10167	HEK293 cells
A/Anhui/1/2005	HA	DAG-H10215	Insect cells
A/Anhui/1/2005	HA (mutated)	DAG2168	HEK293 cells
A/Anhui/1/2005	NP	DAG-H10208	HEK293 cells
A/Anhui/1/2005	NA	DAG-H10179	HEK293 cells
A/Cambodia/R0405050/2007	HA1	DAG-H10194	HEK293 cells
A/Cambodia/R0405050/2007	HA	DAG-H10193	HEK293 cells
A/Cambodia/S1211394/2008	HA1	DAG-H10213	HEK293 cells
A/Cambodia/S1211394/2008	HA	DAG-H10214	HEK293 cells
A/Cambodia/V0401301/2011	HA1	DAG2248	HEK293 cells
A/Egypt/2321-NAMRU3/2007	HA1	DAG-H10185	HEK293 cells
A/Egypt/2321-NAMRU3/2007	HA	DAG2174	HEK293 cells
A/Egypt/3300-NAMRU3/2008	HA1	DAG-H10217	HEK293 cells
A/Egypt/3300-NAMRU3/2008	HA	DAG2183	HEK293 cells
A/Egypt/N03072/2010	HA1	DAG2285	HEK293 cells
A/Egypt/N03072/2010	HA	DAG2198	HEK293 cells
A/Egypt/N05056/2009	HA1	DAG-H10191	HEK293 cells
A/Egypt/N05056/2009	HA	DAG-H10190	HEK293 cells
A/Hong Kong/156/1997	HA1	DAG2286	HEK293 cells

A/Hong Kong/483/1997	HA	DAG-H10195	HEK293 cells
A/Hong Kong/483/1997	HA1	DAG2287	HEK293 cells
A/Hongkong/213/2003	HA1	DAG-H10200	HEK293 cells
A/Hongkong/213/2003	HA	DAG-H10202	HEK293 cells
A/Hubei/1/2010	HA1	DAG2288	HEK293 cells
A/Hubei/1/2010	HA	DAG2199	HEK293 cells
A/Hubei/1/2010	NA	DAG-H10212	HEK293 cells
A/Indonesia/5/2005	HA	DAG2210	HEK293 cells
A/Indonesia/5/2005	HA	DAG2736	Insect cells
A/Indonesia/5/2005	HA (mutated)	DAG2169	HEK293 cells
A/Indonesia/5/2005	NP	DAG2320	HEK293 cells
A/Indonesia/NIHRD11771/2011	HA1	DAG2252	HEK293 cells
A/Thailand/1 (KAN-1)/2004	NA	DAG-H10218	HEK293 cells
A/Thailand/1 (KAN-1)/2004	NP	DAG2327	E. coli
A/Thailand/1 (KAN-1)/2004	M1	DAG2307	E. coli
A/Vietnam/1194/2004	HA1	DAG2289	HEK293 cells
A/Vietnam/1194/2004	HA	DAG-H10176	HEK293 cells
A/Vietnam/1203/2004	HA1	DAG1765	HEK293 cells
A/Vietnam/1203/2004	HA	DAG2170	HEK293 cells
A/Vietnam/1203/2004	HA2	DAG2292	HEK293 cells
A/Vietnam/1203/2004	HA	DAG1608	Insect cells
A/Vietnam/HN31242/2007	HA1	DAG2574	Insect cells
A/Vietnam/UT31413II/2008	HA1	DAG-H10216	HEK293 cells
A/Xinjiang/1/2006	HA1	DAG-H10203	HEK293 cells
A/Xinjiang/1/2006	HA	DAG-H10204	HEK293 cells

Influenza A Virus H7N7

Strain	Target	Cat. No	Expression System
A/Netherlands/219/2003	HA	DAG-H10246	Insect cells
A/Netherlands/219/2003	HA1	DAG-H10249	HEK293 cells
A/Netherlands/219/2003	HA	DAG2186	HEK293 cells
A/England/268/1996	HA	DAG2232	HEK293 cells
A/Netherlands/219/2003	NA	DAG-H10250	HEK293 cells
A/Netherlands/219/2003	NP	DAG2326	HEK293 cells

Influenza A Virus H7N9

Strain	Target	Cat. No	Expression System
A/Anhui/1/2013	HA1	DAG-H10255	HEK293 cells
A/Anhui/1/2013	HA	DAG-H10253	HEK293 cells

A/Anhui/1/2013	HA	DAG-H10266	Insect cells
A/Anhui/1/2013	HA (cleavage)	DAG-H10271	HEK293 cells
A/Anhui/1/2013	M1	DAG-H10263	E. coli
A/Anhui/1/2013	NA	DAG-H10264	HEK293 cells
A/Anhui/1-BALF_RG6/2013	NP	DAG-H10275	Insect cells
A/Hangzhou/1/2013	HA1	DAG-H10258	HEK293 cells
A/Hangzhou/1/2013	HA	DAG-H10257	HEK293 cells
A/Hangzhou/1/2013	HA	DAG-H10268	Insect cells
A/Hangzhou/3/2013	HA	DAG-H10278	Insect cells
A/Shanghai/1/2013	HA1	DAG-H10256	HEK293 cells
A/Shanghai/1/2013	HA1	DAG-H10273	Insect cells
A/Shanghai/1/2013	HA	DAG-H10267	Insect cells
A/Shanghai/1/2013	HA	DAG-H10254	HEK293 cells
A/Shanghai/1/2013	HA (cleavage)	DAG-H10272	HEK293 cells
A/Shanghai/1/2013	NA	DAG-H10265	HEK293 cells
A/Shanghai/2/2013	HA	DAG-H10276	HEK293 cells
A/Shanghai/2/2013	HA	DAG-H10277	Insect cells
A/Shanghai/2/2013	NP	DAG-H10270	Insect cells
A/Shanghai/4664T/2013	HA	DAG-H10280	Insect cells
A/Zhejiang/ DTID-ZJU10/2013	HA	DAG-H10281	HEK293 cells
A/Zhejiang/1/2013	HA	DAG-H10279	Insect cells

Influenza A Virus H9N2

Strain	Target	Cat. No	Expression System
A/Hong Kong/1073/1999	HA1	DAG-H10292	HEK293 cells
A/Hong Kong/1073/1999	HA	DAG2209	HEK293 cells
A/Hong Kong/1073/1999	HA	DAG1613	Insect cells
A/Hong Kong/1073/1999	NA	DAG-H10291	HEK293 cells
A/Hong Kong/2108/2003	HA	DAG2185	HEK293 cells
A/Hong Kong/2108/2003	NP	DAG2325	E. coli
A/Hong Kong/33982/2009	HA1	DAG2291	HEK293 cells
A/Hong Kong/33982/2009	HA	DAG2200	HEK293 cells
A/Hong Kong/35820/2009	HA	DAG-H10290	Insect cells

Influenza B Virus

Strain	Target	Cat. No	Expression System
B/Athens/97/2012	HA1	DAG2267	HEK293 cells
B/Austria/1359417/2021 (B/Victoria lineage)-like virus	HA	DAG-WT1028	HEK293 cells
B/Brisbane/60/2008	HA1	DAG-H10320	HEK293 cells

B/Brisbane/60/2008	HA	DAG2215	HEK293 cells
B/Brisbane/60/2008	M1	DAG2305	E. coli
B/Brisbane/60/2008	NA	DAGC644	HEK293 cells
B/Brisbane/60/2008	NP	DAG2319	E. coli
B/Colorado/06/2017	HA1	DAGA-3992	HEK293 cells
B/Colorado/06/2017	HA	DAGA-3991	HEK293 cells
B/Florida/4/2006	HA1	DAG-H10315	HEK293 cells
B/Florida/4/2006	HA	DAG2216	HEK293 cells
B/Florida/4/2006	HA2	DAG-H10319	HEK293 cells
B/Harbin/7/1994	HA	DAG2191	HEK293 cells
B/Jilin 20/2003	HA	DAG1615	Insect cells
B/Malaysia/2506/2004	HA	DAG1616	Insect cells
B/Malaysia/2506/2004	HA	DAG2178	HEK293 cells
B/Malaysia/2506/2004	HA1	DAG-H10316	HEK293 cells
B/Ohio 01/05	HA	DAG1614	Insect cells
B/Phuket/3073/2013	HA	DAGC614	Insect cells
B/Phuket/3073/2013	HA1	DAGA-3994	HEK293 cells
B/Phuket/3073/2013	HA	DAGA-3993	HEK293 cells
B/Phuket/3073/2013	NA	DAGC615	Insect cells
B/Phuket/3073/2013	NP	DAGC616	Insect cells
B/Texas/6/2011	HA1	DAG2268	HEK293 cells
B/Utah/02/2012	HA1	DAG2269	HEK293 cells
B/Victoria/2/87	HA	DAG2192	HEK293 cells
B/Washington/02/2019	HA	DAGC611	HEK293 cells
B/Washington/02/2019	NA	DAGC612	Insect cells
B/Washington/02/2019	NP	DAGC613	Insect cells
B/Wisconsin/01/2010	HA	DAG2193	HEK293 cells
B/Wisconsin/01/2012	HA1	DAG2271	HEK293 cells
B/Yamagata/16/1988	HA	DAG2194	HEK293 cells
B/Yamagata/4/2012	HA1	DAG2272	HEK293 cells

Creative Diagnostics also offers inactivated purified virus for H1N1, H3N2 and IBV. These antigens could be used in serological studies, as immunogen for antibody production, and tested with antibodies in ELISA.

- Egg-derived antigens
- Formulated with purified, inactivated organisms
- Refrigerator stable - store at -20°C

Native Influenza Antigens Product List

Type	Strain	Cat. No
IAV H1N1	A/Beijing/262/1995	DAG1623
IAV H1N1	A/Brisbane/02/2018, IVR-190	DAG-WT767
IAV H1N1	A/New Caledonia/20/1999 IVR	DAG3690
IAV H1N1	A/New Caledonia/20/1999 IVR 116	DAG-P2178
IAV H1N1	A/PR/8/1934	DAG-WT1026
IAV H1N1	A/Solomon Islands/03/2006	DAG2778
IAV H1N1	A/Taiwan/1/1986	DAG1625
IAV H3N2	A X-31, A/Aichi/1968	DAG-WT1027
IAV H3N2	A/Brisbane/10/2007	DAG2710
IAV H3N2	A/Kansas/14/2017, NYMC X-327	DAG-WT768
IAV H3N2	A/Kiev/301/1994	DAG3344
IAV H3N2	A/NY/55/2004 X PR8 X-157 R-H3	DAGC079
IAV H3N2	A/Panama/2007/1999	DAG2708
IAV H3N2	A/Shangdong/9/1993	DAG2706
IAV H3N2	A/Wisconsin/67/2005	DAG2780
IAV H3N2	A/Wyoming/03/2003	DAGC080
IBV	B/Brisbane/33/2008	DAGC482
IBV	B/Florida 04/2006	DAG1622
IBV	B/Florida 07/2004	DAG1621
IBV	B/Hong Kong 5/1972	DAG197
IBV	B/Jiangsu/10/2003	DAGC081
IBV	B/Malaysia 2506/2004	DAG1620
IBV	B/Maryland/15/2016, NYMC BX-69A	DAG-WT769
IBV	B/Qingdao/102/1991	DAG1617
IBV	B/Tokio/53/1999	DAG1618
IBV	B/Victoria 504/2000	DAG1619

Contact Us

CREATIVE DIAGNOSTICS
45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)
Fax: 1-631-938-8221 | Email: info@creative-diagnostics.com
www.creative-diagnostics.com