



# Recombinant Viral Protein & cDNA

## Recombinant viral proteins and cDNA

Recombinant viral proteins and cDNA are two powerful tools in molecular biology and biotechnology that have numerous applications in research and medicine.

Recombinant viral proteins are artificially produced proteins that are derived from viruses. They are created by inserting the DNA sequence that codes for the desired viral protein into a host cell, such as bacteria or yeast. The host cell then produces the protein, which can be used for a variety of purposes, including as research tools or as components of vaccines.

cDNA, or complementary DNA, is a synthesized copy of the messenger RNA (mRNA) molecule that carries the genetic information from a gene. It is used to produce a corresponding DNA sequence, which can be inserted into a host organism, such as bacteria or yeast, to produce a desired protein. This is particularly useful when the original gene is difficult to isolate or express in its natural form.

The combination of recombinant viral proteins and cDNA can be used to create recombinant viral proteins with specific modifications or mutations. This allows researchers to study the effects of specific changes in the viral proteins, which can lead to a better understanding of how viruses function and how they can be targeted for therapeutic purposes.

Recombinant viral proteins and cDNA are also used in the development of vaccines. By producing recombinant viral proteins, researchers can create vaccines that stimulate the immune system to produce an immune response against the virus. This can be particularly useful for viruses that are difficult to grow in the laboratory or that do not produce a strong immune response.

In summary, recombinant viral proteins and cDNA are powerful tools in molecular biology and biotechnology that have numerous applications in research and medicine. They allow researchers to create, and study modified viral proteins, as well as develop vaccines that can protect against viral infections. As research continues, these tools will continue to play an important role in advancing our understanding of viruses and developing new treatments for viral diseases.

**Explore the following virus antigen and cDNA:**

Virus Name			
<a href="#">African horse sickness virus</a>	<a href="#">African swine fever</a>	<a href="#">Avian encephalomyelitis virus</a>	<a href="#">Avian infectious bronchitis virus</a>
<a href="#">Avian leukosis virus</a>	<a href="#">Avian metapneumovirus</a>	<a href="#">Avian paramyxovirus</a>	<a href="#">Borna disease virus</a>
<a href="#">bovine respiratory syncytial virus</a>	<a href="#">BK Polyomavirus</a>	<a href="#">Bluetongue virus</a>	<a href="#">Bovine adenovirus</a>
<a href="#">Bovine coronavirus</a>	<a href="#">Bovine Delphinium virus</a>	<a href="#">Bovine enteric calicivirus</a>	<a href="#">Bovine herpesvirus</a>
<a href="#">Bovine leukemia virus</a>	<a href="#">Bovine papillomavirus</a>	<a href="#">Bovine papular stomatitis virus</a>	<a href="#">Bovine parainfluenza 3 virus</a>
<a href="#">Bovine respiratory syncytial virus</a>	<a href="#">Bovine rotavirus A</a>	<a href="#">Bovine viral diarrhea virus</a>	<a href="#">Budgerigar fledgling disease virus</a>
<a href="#">Bunyavirus La Crosse</a>	<a href="#">Canid herpesvirus 1</a>	<a href="#">Canine adenovirus</a>	<a href="#">Canine distemper virus</a>



## Magnetic Beads Make Things Simple

## Technology

<a href="#">Canine minute virus</a>	<a href="#">Canine parvovirus</a>	<a href="#">Caprine arthritis encephalitis virus</a>	<a href="#">Cercopithecine herpesvirus</a>
<a href="#">Classical swine fever virus</a>	<a href="#">Cowpox virus</a>	<a href="#">Coxsackievirus</a>	<a href="#">Crimean-Congo hemorrhagic fever virus</a>
<a href="#">Dengue virus</a>	<a href="#">Duck adenovirus 1</a>	<a href="#">Duck enteritis virus</a>	<a href="#">Duck hepatitis B virus</a>
<a href="#">Eastern equine encephalitis virus</a>	<a href="#">Echovirus</a>	<a href="#">Epizootic haematopoietic necrosis virus</a>	<a href="#">Epizootic hemorrhagic disease virus</a>
<a href="#">Epstein-Barr virus</a>	<a href="#">Equid herpesvirus</a>	<a href="#">Equine arteritis virus</a>	<a href="#">Equine herpesvirus</a>
<a href="#">Equine infectious anemia virus</a>	<a href="#">European brown hare syndrome virus</a>	<a href="#">Feline calicivirus</a>	<a href="#">Feline herpesvirus</a>
<a href="#">Feline immunodeficiency virus</a>	<a href="#">Feline infectious peritonitis virus</a>	<a href="#">Feline leukemia virus</a>	<a href="#">Feline parvovirus</a>
<a href="#">Foot-and-mouth disease virus</a>	<a href="#">Fowl adenovirus</a>	<a href="#">Gallid herpesvirus</a>	<a href="#">Gorilla hepatitis B virus</a>
<a href="#">Hepatitis A virus</a>	<a href="#">Hepatitis B virus</a>	<a href="#">Hepatitis C virus</a>	<a href="#">Hepatitis delta virus</a>
<a href="#">Hepatitis E virus</a>	<a href="#">Human adenovirus</a>	<a href="#">Human adenovirus A</a>	<a href="#">Human adenovirus B</a>
<a href="#">Human adenovirus C</a>	<a href="#">Human adenovirus D</a>	<a href="#">Human adenovirus E</a>	<a href="#">Human adenovirus F</a>
<a href="#">Human astrovirus</a>	<a href="#">Human calicivirus</a>	<a href="#">Human coronavirus</a>	<a href="#">Human coxsackievirus</a>
<a href="#">Human cytomegalovirus</a>	<a href="#">Human echovirus</a>	<a href="#">Human enterovirus</a>	<a href="#">Human hepatitis A virus</a>
<a href="#">Human herpesvirus</a>	<a href="#">Human immunodeficiency virus</a>	<a href="#">Human metapneumovirus</a>	<a href="#">Human papillomavirus</a>
<a href="#">Human parainfluenza virus</a>	<a href="#">Human poliovirus</a>	<a href="#">Human respiratory syncytial virus</a>	<a href="#">Human respiratory syncytial virus B</a>
<a href="#">Human rhinovirus</a>	<a href="#">Human rotavirus</a>	<a href="#">Human SARS coronavirus</a>	<a href="#">Human T-cell leukemia virus</a>
<a href="#">Human T-lymphotropic virus</a>	<a href="#">Infectious bronchitis virus</a>	<a href="#">Infectious hematopoietic necrosis virus</a>	<a href="#">Infectious hypodermal and hematopoietic necrosis virus</a>
<a href="#">Infectious laryngotracheitis virus</a>	<a href="#">Infectious pancreatic necrosis virus</a>	<a href="#">Infectious salmon anemia virus</a>	<a href="#">Influenza A virus</a>
<a href="#">Japanese encephalitis virus</a>	<a href="#">JC polyomavirus</a>	<a href="#">Lactate dehydrogenase elevating virus</a>	<a href="#">Langat virus</a>
<a href="#">Lassa virus</a>	<a href="#">Louping ill virus</a>	<a href="#">Lumpy skin disease virus</a>	<a href="#">Mason-Pfizer monkey virus</a>
<a href="#">Measles virus</a>	<a href="#">Mmarburgvirus</a>	<a href="#">Modoc virus</a>	<a href="#">Molluscum contagiosum virus</a>
<a href="#">Moloney murine leukemia virus</a>	<a href="#">Monkeypox virus</a>	<a href="#">Montana myotis leukoencephalitis virus</a>	<a href="#">Mouse mammary tumor virus</a>
<a href="#">Mumps virus</a>	<a href="#">Murine coronavirus</a>	<a href="#">Murine leukemia virus</a>	<a href="#">Murine pneumotropic virus</a>
<a href="#">Murray Valley encephalitis virus</a>	<a href="#">Newcastle disease virus</a>	<a href="#">Nipah virus</a>	<a href="#">Norovirus</a>
<a href="#">Norwalk virus</a>	<a href="#">Orf virus</a>	<a href="#">Peste-des-petits-ruminants virus</a>	<a href="#">Porcine enteric sapovirus</a>
<a href="#">Porcine enterovirus</a>	<a href="#">Porcine epidemic diarrhea virus</a>	<a href="#">Porcine hemagglutinating encephalomyelitis virus</a>	<a href="#">Porcine lymphotropic herpesvirus</a>
<a href="#">Porcine reproductive and respiratory syndrome virus</a>	<a href="#">Porcine rotavirus</a>	<a href="#">Pseudocowpox virus</a>	<a href="#">Pseudorabies virus</a>
<a href="#">Rabbit hemorrhagic disease virus</a>	<a href="#">Rabies virus</a>	<a href="#">Rat coronavirus</a>	<a href="#">Respiratory syncytial virus</a>
<a href="#">Reston ebolavirus</a>	<a href="#">Rift valley fever virus</a>	<a href="#">Rinderpest virus</a>	<a href="#">Rotavirus</a>
<a href="#">Rubella virus</a>	<a href="#">Saimiriine herpesvirus</a>	<a href="#">San Miguel sea lion virus</a>	<a href="#">Sheeppox virus</a>
<a href="#">Simian adenovirus</a>	<a href="#">Simian foamy virus</a>	<a href="#">Simian immunodeficiency virus</a>	<a href="#">Simian virus</a>
<a href="#">Snow goose hepatitis B virus</a>	<a href="#">Spring viremia of carp virus</a>	<a href="#">Sudan ebolavirus</a>	<a href="#">Suid herpesvirus</a>
<a href="#">Swine vesicular disease virus</a>	<a href="#">Taura syndrome virus</a>	<a href="#">Tick-borne encephalitis virus</a>	<a href="#">Transmissible gastroenteritis virus</a>
<a href="#">Turkey astrovirus</a>	<a href="#">Turkey rhinotracheitis virus</a>	<a href="#">Usutu virus</a>	<a href="#">Vaccinia virus</a>
<a href="#">Varicella-zoster virus</a>	<a href="#">Variola virus</a>	<a href="#">Venezuelan equine encephalitis virus</a>	<a href="#">Vesicular exanthema of swine virus</a>
<a href="#">Vesicular stomatitis Indiana virus</a>	<a href="#">Viral hemorrhagic septicemia virus</a>	<a href="#">West Nile virus</a>	<a href="#">Western equine encephalitis virus</a>
<a href="#">White spot syndrome virus</a>	<a href="#">Woodchuck hepatitis B virus</a>	<a href="#">Woodchuck hepatitis virus</a>	<a href="#">Woolly monkey hepatitis B virus</a>
<a href="#">Woolly monkey sarcoma virus</a>	<a href="#">Yellow fever virus</a>	<a href="#">Zaire ebolavirus</a>	