

# How mRNA COVID-19 Vaccines Work

## Understanding the virus that causes COVID-19.

Coronaviruses like the one that causes COVID-19 are named for the crown-like spikes on their surface, called **spike proteins**. These **spike proteins** are ideal targets for vaccines.

## What is mRNA?

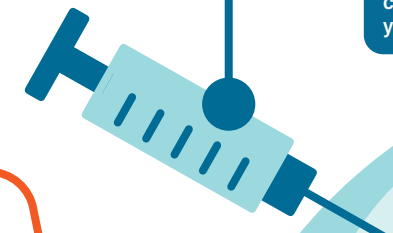
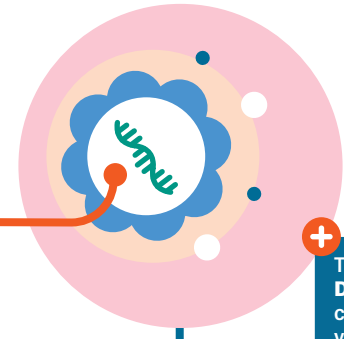
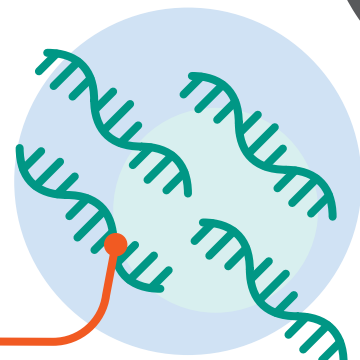
Messenger RNA, or mRNA, is genetic material that tells your body how to make proteins.

## What is in the vaccine?

The vaccine is made of mRNA wrapped in a coating that makes delivery easy and keeps the body from damaging it.

## How does the vaccine work?

The mRNA in the vaccine teaches your cells how to make copies of the **spike protein**. If you are exposed to the real virus later, your body will recognize it and know how to fight it off.



+ The vaccine **DOES NOT** contain **ANY** virus, so it cannot give you COVID-19.

+ When your body responds to the vaccine, it can sometimes cause a mild fever, headache, or chills. This is completely normal and a sign that the vaccine is working.

+ After the mRNA delivers the instructions, your cells break it down and get rid of it.

Antibody

## Getting vaccinated?

For information about COVID-19 vaccine, visit: [cdc.gov/coronavirus/vaccines](https://www.cdc.gov/coronavirus/vaccines)

