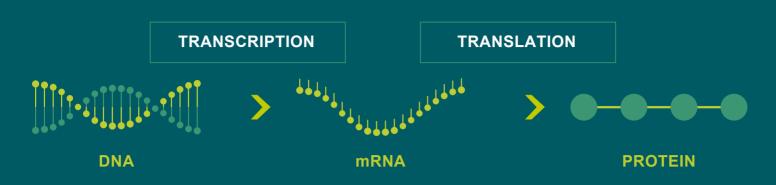
Project Lightspeed

BioNTech's circa 10-month path to develop an effective and well-tolerated vaccine following highly scientific and ethical standards



Vaccination programs now active across the globe

What is messenger RNA?



- The first molecule of life, involved in almost all aspects of cell biology
- Can be synthesized and engineered to resemble mRNA molecules as they occur naturally in the cytoplasm of human cells and transiently deliver proteins of interest
- mRNA has a transient messenger function and is rapidly degraded in the body

mRNA is a natural solution for vaccines, especially in a pandemic

Natural molecule studied for > 50 years with well-characterized bio-safety properties Does not require addition of adjuvants or use of a viral vector for administration

High purity and animal material free

Highly scalable production

Precision vaccine Virus-free Non-integrating into DNA Non-infectious

mRNA vaccines train the immune system for a real infection: Both parts of the immune system activated against virus

