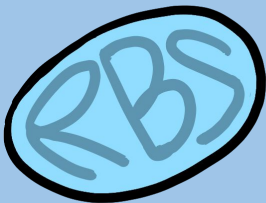




# Promoter

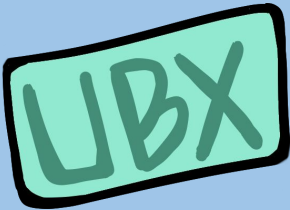
In genetics, a promoter is a sequence of DNA to which proteins bind to initiate transcription of a single RNA transcript from the DNA downstream of the promoter.



# RBS

**Ribosome-Binding Site**

Ribosome-Binding Site is an RNA sequence to which ribosome can bind and initiate translation



# Ubx

Ultrabithorax

Ultrabithorax (Ubx) is a homeobox gene found in insects. Ubx has been used to form biomaterials because of its biocompatibility.



# Terminator

In genetics, a transcription terminator is a section of nucleic acid sequence that marks the end of a gene or operon in genomic DNA during transcription.



# Antimicrobial Peptides (PR-39)

Antimicrobial peptides PR-39 (AMPs PR-39) are discovered from pigs. These peptides are potent, broad spectrum antibiotics which demonstrate potential as novel therapeutic agents.



# Antimicrobial Peptides (LL-37)

Antimicrobial peptides LL-37 (AMPs LL-37) are discovered from humans. These peptides are potent, broad spectrum antibiotics which demonstrate potential as novel therapeutic agents.



# Lactoferricin

Lactoferricin is the most studied AMP derived from milk protein. It has the properties of anti-microbial and anti-cancer.



Electrically conductive protein pila enable long-range electron exchange between microorganisms and their extracellular environment. It can form electronic material.



# Oops!!!

You broke the sample during the experiment. Shuffle with the surrounding card.



# Support!

Scientists make a breakthrough in biology. This also benefits your competitor to develop the product. You can choose one card face-up permanently.





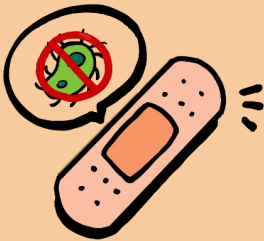
## Client change the product

Your client wants the new product!  
Please draw a new question card from  
the pile and return the original one.

# BIOBRICK



iGEM 2022 NYCU\_Formosa



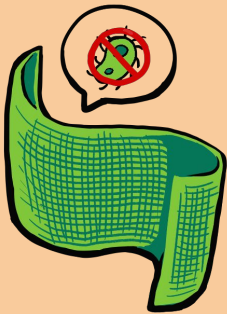
# Wound Healing Material

You need Antimicrobial peptides PR-39  
to produce wound healing material.



## Conductive Material

You need conductive protein pilA to produce conductive material.



# Antifungal Material

You need Lactoferricin to produce  
antifungal material.



# Immunoregulatory Material

You need Antimicrobial peptides LL-37  
to produce immunoregulatory material.

# PRODUCT



iGEM 2022 NYCU\_Formosa