



Oct 06, 2020

# Protocol 1: PCR

In 1 collection

1

1UCSC

1 Works for me

This protocol is published without a DOI.

UCSC BME 22L

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## PROTOCOL CITATION

2020. Protocol 1: PCR. **protocols.io**  
<https://protocols.io/view/protocol-1-pcr-bmd3k28n>

## COLLECTIONS ⓘ

 **Protocols for Primer Design**

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## CREATED

Sep 15, 2020

## LAST MODIFIED

Oct 06, 2020

## PROTOCOL INTEGER ID

42139

## PARENT PROTOCOLS

Part of collection

[Protocols for Primer Design](#)

## BEFORE STARTING

To build PCR primers, it is as simple as uploading a FASTA file to the PrimerQuest Tool website. It works either by uploading manually a sequence, FASTA entry, downloading NCBI or Accession ID, or uploading an excel file with sequences on it.

### 1 Find a Sequence

You will need to look up the gene for the sequence you are trying to amplify and download your file (any type described above)

### 2 Go to PrimerQuest Tool

You will need to go to the PrimerQuest Tool webpage, <https://www.idtdna.com/Primerquest/Home/Index>, in order to insert file type of choice

ASSAY DESIGN

RESULTS

HELP

ABOUT

## Assay Set Locations for uc004cxb.2 (ACE2) length=3519

ADD TO ORDER -

DOWNLOAD ASSAYS

CUSTOMIZE ASSAY DESIGN

SHOW CUSTOM TARGET REGIONS

☐ Set 1 uc004cxb.2 (ACE2) length=3519

	Start	Stop	Length	Tm	GC%
Amplicon Length: 783					
Forward	2456	2478	22	62	50
Reverse	3217	3239	22	62	50

View Assay Details

☐ Set 2 uc004cxb.2 (ACE2) length=3519

	Start	Stop	Length	Tm	GC%
Amplicon Length: 529					
Forward	1147	1169	22	62	45.5
Reverse	1654	1676	22	62	50

View Assay Details

### 3 Select a primer

#### PrimerQuest Tool

[illegible]

- 4 **Take a screenshot** of potential primers found on IDT then upload them to your lab notebook

- 5 Confirm your primer.** The confirmation page will compile all of the necessary primer information onto one page so that you can have one last check of the aspects of your primers before you order. When you are confident in your choice, save the primer information and send them out to be synthesized.