

# Wuhan-coronavirus homologue map

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## Background and Objective

**Background:** At the beginning of 2020, global risk of infection of coronavirus is spreaded. The pandemic started in 2019 and governments announced a state of emergency. In Japan, the government adopted PCR as a diagnosis method of the infection. But the selection of primers influence the accuracy greatly.

**Objective:** Therefor, I provide a "map" of homological region of coronavirus to other viruses and animals to help the primer design.

## Data

- Vertebrates:
- Bat (NW\_017738920.1 .. NW\_017802358.1; 63439frgs)
  - Beluga (NW\_022097992.1 .. NW\_022103895.1; 5904frgs)
  - Camel (NC\_044511.1 .. NC\_044547.1; 37chrs)
  - Cat (NC\_018723.3 .. NC\_018741.3; 19chrs)
  - Dog (NC\_006583.3 .. NC\_006621.3; 39chrs)
  - Ferret (NW\_004569142.1 .. NW\_004576923.1; 7782frgs)
  - Human (NC\_000001.4 .. NC\_000024.3; 24chrs)
  - Mouse (NC\_000067.6 .. NC\_000087.7; 21chrs)
  - Rabbit (NC\_013669.1 .. NC\_013690.1; 22chrs)
  - Pig (NC\_010443.5 .. NC\_010462.3; 20chrs)
  - Rock Pigeon (NW\_004973171.1 .. NW\_004988092.1; 14922frgs)
  - Turkey (NC\_015011.2 .. NC\_015042.2; 32chrs)
- Viruses:
- 7554 genomes of viruses or phages
  - Wuhan-corona virus genome (MN908947.3)

## Method

blast window-fourrier  
self-blast selection of frequent homologues

