

CLONING

Why?

- ① more DNA
- ② test. f(x)
- ③ structure (sequence)
- ④

How?

- ① isolate DNA/RNA
 - all
 - specific (PCR)*

- ② put into vector

What Does Vector Need

- a) origin
- b) selection
- c) tx. signals
- d) cloning sites
- e) ease of isolation

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- plasmids
- phage
- cosmids

- ③ test structure / function

- a) sequence
- b) mutagenesis
- c) complement
- d) in vitro tx. / tl
- e) over express
- f) in vivo. (Northern, Ab)
- g) evolution →