

## Ligation

- temper heatblock to 18 °C
- choose four vector-insert-ratios → 1:0 (control ligation without vector)  
1:4, 1:6, 1:10, 1:15
- pipette all reagents in a 1.5 ml tube

Sticky-end Ligation	
vector (30 ng)	volume per concentration
Fragment	volume per concentration
T4 DNA-Ligase	1 µl
T4-DNA-Ligase-buffer	2 µl
H <sub>2</sub> O	ad 20 µl

- incubation of ligation: over night at 18 °C

### ligation

- experiment date: \_\_\_\_\_; time: \_\_\_\_\_
- name of investigator: \_\_\_\_\_
- plasmid: name: \_\_\_\_\_ number: \_\_\_\_\_ production date: \_\_\_\_\_  
origin: \_\_\_\_\_
- new vector name: \_\_\_\_\_

	Size in kDa	Volume in µl
vector (30 ng):		
Fragment:		
T4 DNA-Ligase		
T4-DNA-Ligase-buffer		
H <sub>2</sub> O		