

# Cloning is easy with FastDigest restriction enzymes

One-buffer system, infinite possibilities



**>3,000** restriction enzyme-producing strains

**18** unique restriction enzymes available

**Over 50 years** of experience in restriction endonuclease research and development

**>40%** of all known restriction enzymes cloned

**>30%** of all known restriction enzymes characterized

**1st** to develop the one-buffer system



Peak laboratory efficiency with

**176** enzymes

**24** type IIS enzymes

**10** rare-cutter enzymes

**5-15** minutes, for fast digestion

**1** buffer for all enzymes



## Advanced applications

- Golden Gate cloning
- uLoop assembly
- CRISPR-based genome editing

- Seamless cloning
- Bispecific antibody design



## Exceptional quality

- Manufactured in class D clean room
- Compliant with ISO 9001, 14001, and 13485 standards



## 100% activity in downstream applications

Add your enzymes directly to the Thermo Scientific™ FastDigest™ reaction mix.

No buffer changes or purification steps are needed

- DNA Polymerase I
- Klenow Fragment
- T7 DNA Polymerase
- T4 DNA Ligase
- Thermo Scientific™ FastAP™ Thermosensitive Alkaline Phosphatase
- T4 Polynucleotide Kinase



## Industry-standard assay

We perform testing with uniquely labeled oligonucleotide with exceptional sensitivity to detect trace activities of the following:

- Endo-deoxyribonucleases
- Exo-deoxyribonucleases
- Phosphatases
- No unspecific activity



## Direct loading on gel

Thermo Scientific™ FastDigest™ Green Buffer contains two tracking dyes, allowing the reaction mixture to be directly loaded for gel electrophoresis



Learn more at [thermofisher.com/fastdigest](https://thermofisher.com/fastdigest)

thermo scientific