v i v a n t i s		
RESTRICTION ENDONUCLEASE		Product Datasheet
Kpn I	\$'GGTACC3' 3'CCATGG5'	Product No : RV1286 Quantity : 1000u
	0.5ml	
info@vivantechnologies.com		

Reaction Conditions:

Buffer V1, 10mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂, and 100 μ g/ml BSA. Incubate at 37°C.

4 - 0

Dilution: Viva Buffer A

10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200 $\mu g/ml$ BSA and 50% glycerol.

Thermal Inactivation: None

Storage Buffer:

10mM Tris-HCl (pH 7.5), 50mM KCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 200µg/ml BSA and 50% glycerol.

Unit Definition:

1u is defined as the amount of enzyme that is required to digest $1\mu g$ of DNA in 1 hour at 37°C in 50 μl of assay buffer.

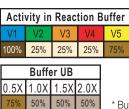
Quality Control Assays:

Ligation/ Recutting Assay:

After 30-fold overdigestion with *Kpn* **I**,90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 60u of *Kpn* I for 16 hours at 37°C.



* Buffer UB is provided for double digestion purpose.

NOTE:

- * Total reaction volume dependent on experiment.
- * The amount of enzyme to be used is very much dependent on the DNA template.
- * For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion ReactionEnzyme: 1 unitLambda 0.3µg/µl: 3.33µl (1µg DNA)10X Reaction Buffer: 5µlSterile Distilled Water: Up to 50µl

Product Use Limitation

This product is for research purposes and in vitro use only.

