



Data Sheet (19.08.2010)

Sca I

5' ...AGTACT...3'
3' ...TCATGA...5'

Source: *Streptomyces caespitosus*

Cat.-No.	Size	Conc.
mi-E0131S	1,200 units	10 u/μl
mi-E0131L	6,000 units	10 u/μl

Buffer supplied: 10x Sca I (incl. BSA)

BSA is now already included into the buffer without any loss of performance!

Substrate for unit definition: λ DNA (5 sites)

Reaction conditions:

100 mM NaCl, 10 mM Tris-HCl (pH 7.4), 10 mM MgCl₂, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **37 °C**.

Storage buffer:

50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 μg/ml BSA, and 50 % glycerol.

Store at -20 °C. Avoid warming to 0 °C or higher.

Under these storage conditions, a guarantee of 12 months after delivery is given.

Ligation and recutting:

After 10-fold overdigestion with Sca I, > 90% of the DNA fragments can be ligated and recut with this enzyme.

Star activity:

Large excess of the enzyme results in the appearance of star activity.

Heat inactivation: 80 °C for 20 minutes