Restriction Endonuclease	Supplied in:	Quality Control Assays	Enzyme Properties
Zra I SibEnzyme SibEnzyme Ltd., Russia Ph: +7 383 333 4991	10 mM Tris-HCl (pH 7.4); 50 mM NaCl; 0,1 mM EDTA; 200 μg/ml BSA; 1 mM DTT; 50% glycerol.	Ligation: After 10-fold overdigestion with Zra I,approximately 90% of λ DNA fragments can be ligated with T4 DNA Ligase and recut.	Activity in SEBuffers: SEBuffer B 100% SEBuffer G 50-75%
Fax :+7 383 333 6853		In the presence of 10% PEG ligation is better.	SEBUTTER U 25-50%
E463 info@sibenzyme.com www.sibenzyme.com	Incubate at 37°C .	16-Hour Incubation:	SEBuffer Y 75-100% SEBuffer ROSE 100%
R 37 SE A BO YES	1×SEBuffer B 10 mM Tris-HCI (pH 7.6 @ 25°C) 10 mM MgCl ₂ 1 mM DTT	and 10 units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.	When using a buffer other than the optimal (suppied) SEBuffer, it may be necessary to add more enzyme to achieve
200 u Lot: 18	Unit Definition: One unit is defined as the		complete digestion.
10 000 u/ml Store at -20°C	amount of enzyme required to digest 1 μ g		Zra I is a neoschizomer of Aat II.
Recognition Sequence: 5'…GAC↓GTC …3'	of λ DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.	Oligonucleotide Assay: No detectable degradation of a single- and double-stranded oligonucleotide was	Heat Inactivation: Yes (80°C for 20 minutes)
3'CTG个CAG5'		observed after incubation with 10 units of enzyme for 3 hours.	Reagents Supplied with Enzyme: 10×SEBuffer B
Sourse: <i>E.coli</i> strain that carries the cloned Zra I gene from <i>Zoogloea ramigera 11</i>			Notes: High enzyme concentration may result in star activity. The minimum number of units that resulted in complete digestion of 1 ug of substrate DNA in 16 hours is 0,5. Zral cleaves linear plasmid DNA at a rate 1,5-2 times higher than supercoiled plasmid DNA.