



***The ENZYME Company***

Enzyme	Prototype	Recognition Sequence	Cat No.	Package, u.a.
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<b>Sfr303 I</b>	Sac II	CCGC <sup>^</sup> GG GG <sup>^</sup> CGCC	281010	1000 units
			281050	5000 units

Lot-number:	Assayed:	Quantity:

<b>Origin</b>	Streptomyces fradiae 303
<b>Concentration</b>	5000-20000, u.a./ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 100 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol; Store at -20°C.
<b>Ligation</b>	After 10-fold overdigestion with enzyme more than 90% of the DNA fragments can be ligated and recut.
<b>Non-specific activity</b>	No nonspecific activity was detected after incubation of 1 ug of DNA with 20 u.a. of enzyme for 16 hours at 37°C.
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes under 65 °C</b>	Yes
<b>Optimum SE-buffer</b>	<b>B</b> (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl <sub>2</sub> ; 1 mM DTT.)

**Enzyme activity in % of maximum :**

<b>B</b>	<b>G</b>	<b>O</b>	<b>W</b>	<b>Y</b>
100	50 - 75	10 - 25	10 - 25	75 - 100

**References:** Puchkova, L.I., Selina, A.V., Serov, G.D., Krivopalova, G.N., Rechkunova, N.I., Degtyarev, S.Kh., Unpublished observations.

<b>Unit-definition</b>	One unit of the enzyme is the amount required to hydrolyze 1 µg of DNA in 1 hour in a total reaction volume of 50 µl. Concentrated enzymes are diluted to approximately 1000 units/ml with the buffer (10mM Tris-HCL (ph7.6); 50 mM KCL; 0,1 mM EDTA; 1 mM DTT; 200 µg/ml BSA; 50% glycerol) before determining their activity.
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