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EMBL12, a new lambda replacement vector with sites for SalI, XbaI, BamHI, SstI and EcoRI

Ernst Natt and Gerd Scherer

Institut für Humangenetik der Universität, Albertstr. 11, D-7800 Freiburg i. Br., FRG

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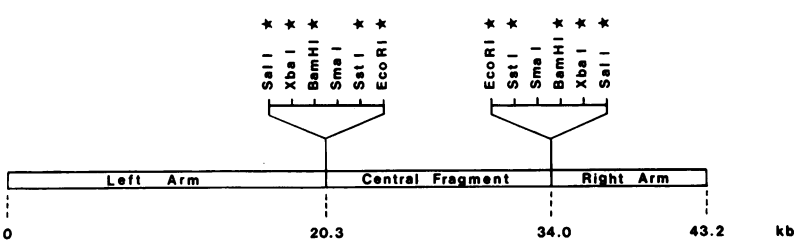
To improve the usefulness of the phage vector EMBL3 (1), we have replaced the SalI-BamHI-EcoRI polylinker sequence of this vector by the SalI-EcoRI polylinker segment of plasmid pUC12 (2). The resulting phage vector, called EMBL12, therefore contains cloning sites for SalI, XbaI, BamHI, SstI and EcoRI, indicated by asterisks in the Figure. Except for the new polylinker sequence, EMBL12 is identical to EMBL3. Like its parent phage, it accommodates DNA fragments with sizes between 8kb and 23kb and allows the direct selection of recombinants using the Spi$^-$ phenotype.This new vector is particularly suited for the cloning of AvrII(C/CTAGG), NheI(G/CTAGC) and SpeI(A/CTAGT) fragments into the ligation compatible XbaI(T/CTAGA) sites. In contrast to the previously described XbaI vector λ2001 (3) such inserts can easily be recovered by cutting at the flanking SalI sites.



References

1. Frischauf, A.-M. et al. (1983) J. Mol. Biol. 170, 827-842.
2. Messing, J. and Vieira, J. (1982) Gene 19, 269-276.
3. Karn, J. et al. (1984) Gene 32, 217-224.