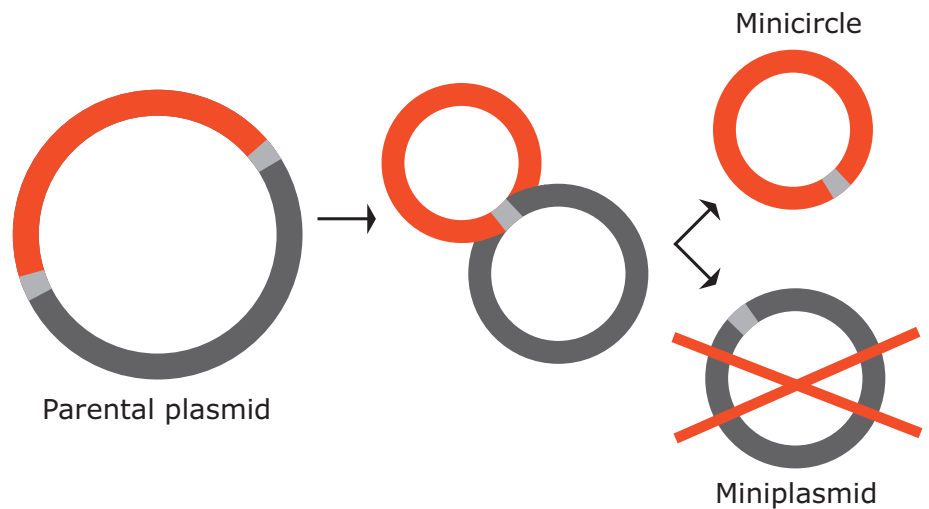
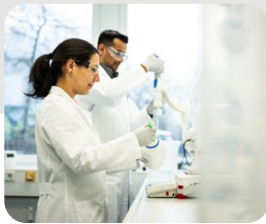


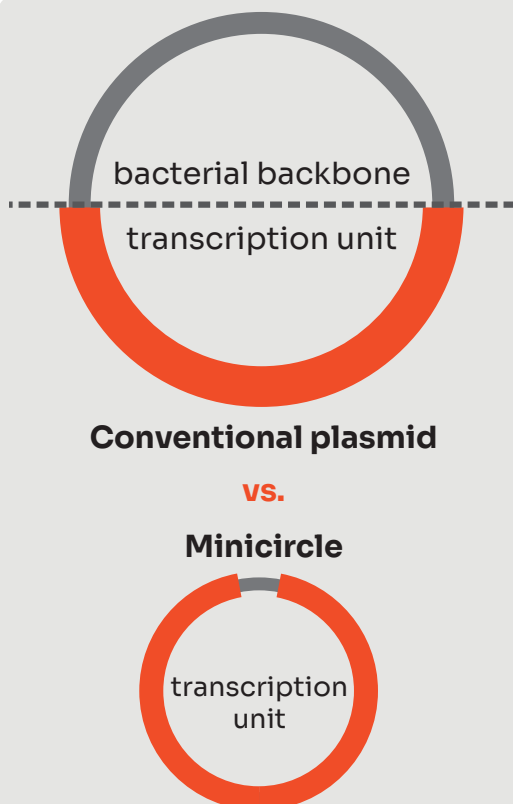
Minicircle – DNA manufacturing

A parental plasmid undergoes recombination, producing a supercoiled Minicircle with the gene of interest, while the bacterial backbone forms a Miniplasmid that is removed during purification.



Minicircle features

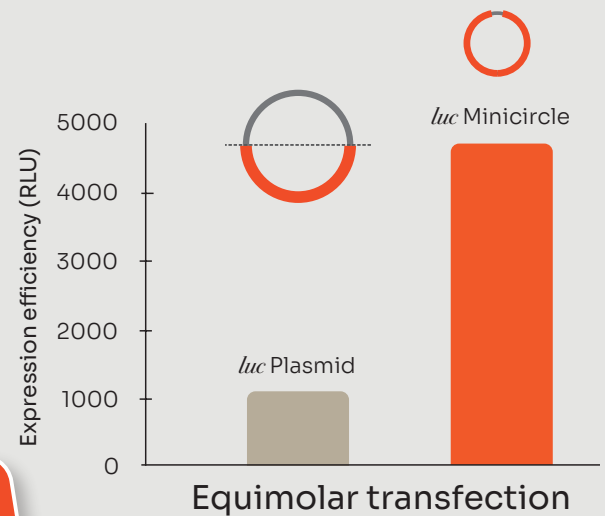
- ✓ Smaller size compared to plasmid DNA
- ✓ No bacterial backbone
- ✓ Free of bacterial selection markers
- ✓ Free of antibiotic resistance genes
- ✓ Free of antibiotic residues
- ✓ Monomeric supercoil
- ✓ Almost no cargo size restrictions
- ✓ Large-scale production available
- ✓ From research to GMP



Minicircle – small but powerful

Minicircle advantages

- ✓ High expression efficiency
- ✓ Reduced transgene silencing
- ✓ Increased yield – Reduced costs
- ✓ No retro packaging in AAV
- ✓ Reduced DNA toxicity
- ✓ Lower safety risk



Available:

- License-free (AE)
- Globally
- In large scale



Minicircle manufacturing service: Your key to innovation

Minicircle DNA delivers efficient transfection, strong expression, and low toxicity – from research to GMP. Proven in CAR-T and advanced therapies.