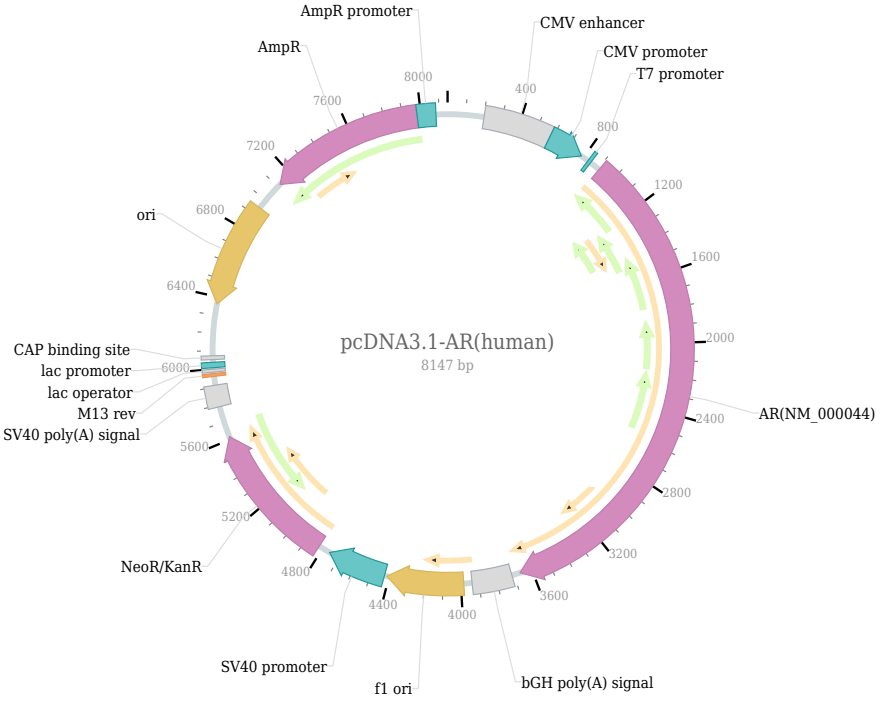
pcDNA3.1-AR(human)

Vector ID	V031481
Accession ID	NM_000044.6
Antibiotic Resistance	Ampicillin
Length	8147 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	CMV
Growth Strain(s)	DH10B
Expression Method	Transient
Comment	pcDNA3.1-AR(human) drives expression of the human androgen receptor (AR, NM_000044), a ligand-activated nuclear receptor transcription factor that binds androgens (such as testosterone and dihydrotestosterone) to regulate gene expression involved in male sexual development, cell proliferation, and differentiation. This vector features a CMV enhancer/promoter for robust constitutive transgene expression, along with a T7 promoter for in vitro transcription and sequencing. It also includes a bovine growth hormone (bGH) poly(A) signal for efficient mRNA transcription termination and polyadenylation, and utilizes an SV40 promoter to drive the NeoR/KanR resistance marker for antibiotic selection in mammalian cells and bacteria. The backbone further carries an AmpR promoter and gene, dual origins of replication (ori and f1 ori), and SV40/ lac regulatory elements for stable plasmid maintenance and propagation.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.