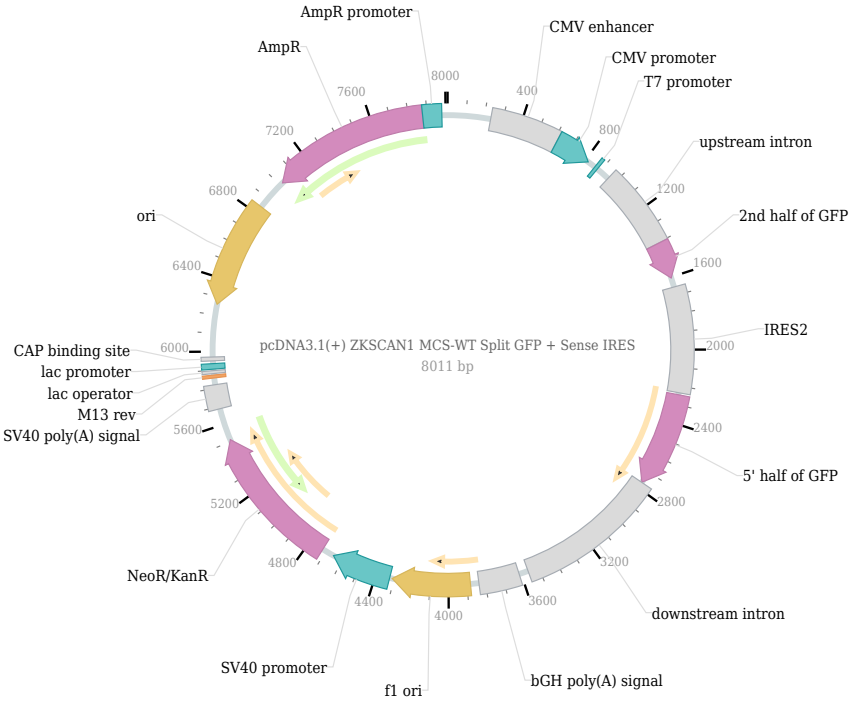
# pcDNA3.1(+) ZKSCAN1 MCS-WT Split GFP + Sense IRES

| | |
|---|---|
| **Vector ID** | V017115 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 8011 bp |
| **Vector Type** | Protein expression |
| **Host** | Mammalian cells |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Selection Marker** | Neo/G418 |
| **Promoter** | CMV |
| **Growth Strain(s)** | DH5a |
| **Growth Temperature** | 37℃ |
| **Comment** | This mammalian vector uses pcDNA3.1(+) backbone with complementary ZKSCAN1 intronic repeats to drive efficient backsplicing and circRNA formation. It carries split GFP fragments and a sense EMCV IRES between introns; full-length GFP only forms after circularization for cap-independent translation. Long ZKSCAN1 inverted repeats drastically cut linear byproduct and support circularization of long inserted sequences in human cells. It serves as a reporter tool to detect and quantify translatable circular RNA production in mammalian cell lines. |

## 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 ℃.