# M50 Super 8x TOPFlash

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| **Vector ID** | V001134 |
| **Antibiotic Resistance** | Ampicillin |
| **Length** | 4984 bp |
| **Vector Type** | Signal Pathway Reporter Vectors |

## Product Information

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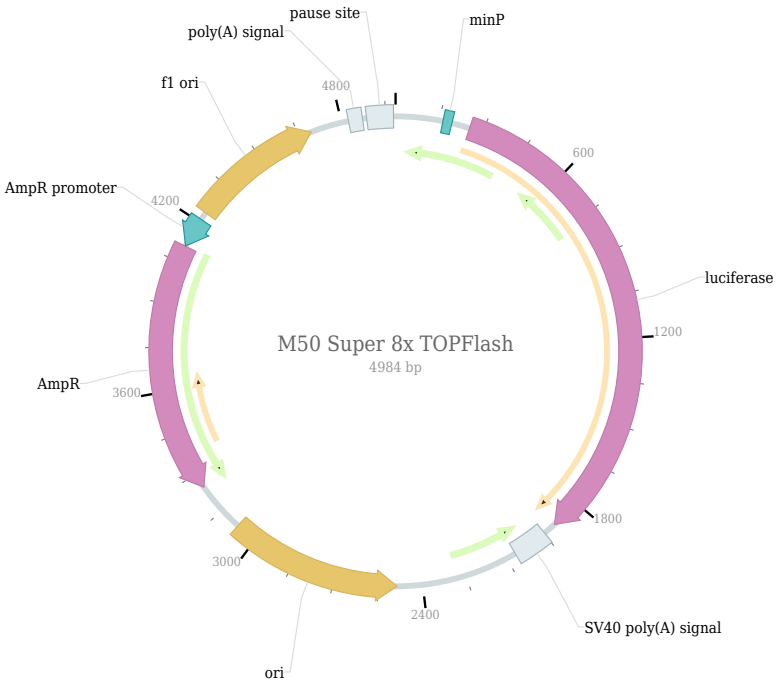
| **Replication Origin** | ori |
| **Selection Marker** | Luc |
| **Promoter** | minP |
| **Growth Temperature** | 37℃ |
| **Comment** | This is a luciferase reporter of beta-catenin-mediated transcriptional activation. In HEK cells, maximal activation of this reporter is ~100-fold (activation by Wnt) up to ~1,000-fold (activation by phosphorylation mutants of beta-catenin). The appropriate control plasmid is clone M51, Super8XFOPflash, which has mutant TCF/LEF binding sites.This construct was made by Ajamete Kaykas in the Moon lab. The backbone is the pTA-Luc vector of Clontech, which provides a minimal TA viral promoter driving expression of the firefly luciferase gene (see company publications for details). 7 TCF/LEF binding sites were cloned into the Mlu1 site of this vector (7 copies of: AGATCAAAGGgggta, with TCF/LEF binding site in CAP letters, and a spacer in lower case, separating each copy of the TCF/LEF site).Note: This plasmid was published as M50 Super 8x TOPFlash, but the plasmid actually contains 7 TCF/LEF sites. |

## 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 ℃.