# NLS-mCherry-NES reporter (pDN160)

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| **载体编号 Vector ID** | V007267 |
| **抗性 Antibiotic Resistance** | Ampicillin |
| **长度 Length** | 6250 bp |
| **载体类型 Vector Type** | Mammalian Expression |

## 产品信息

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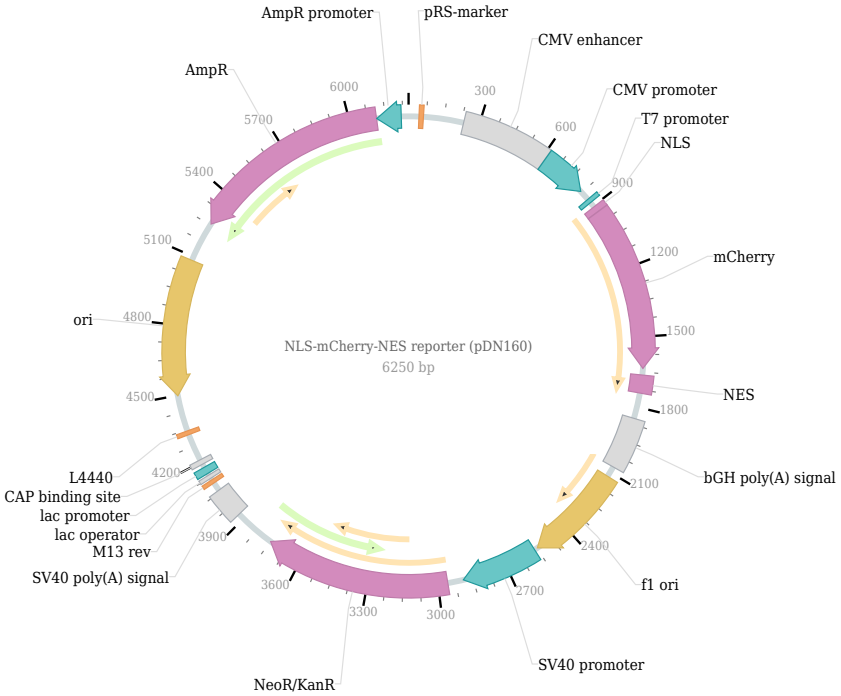
| **复制子 Replication Origin** | ori |
| **拷贝数 Copy Number** | High Copy |
| **启动子 Promoter** | CMV |
| **5' 引物 5' Primer** | CMV-F |
| **3' 引物 3' Primer** | BGH-rev |
| **培养菌株 Growth Strain(s)** | DH10B |
| **备注 Comment** | pDN160 is a constitutive fluorescent reporter plasmid constructed by deleting the AsLOV2 domain from pDN118. It encodes a fusion protein consisting of a weak cMyc P1A NLS, mCherry, and a strong truncated human PKIα-derived PKIt NES linked by flexible GGS repeats. Without light regulation, its fusion protein mainly resides in cytoplasm due to the dominant PKIt NES. Co-expressed with chromatin-tethered H2B-GFP-LEXY, it visualizes CRM1 sequestration and light-induced nuclear export inhibition via increased nuclear mCherry signal. This reporter quantitatively measures endogenous CRM1-dependent nuclear export activity in live mammalian cells. |

## 质粒图谱



## 复溶方法

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 ℃.