



The following features are present in the vector based on the nucleotide sequence:

Multiple cloning site (MCS)	1-41
minP region (minimal core promoter)	45-60
Optimized 5' UTR*	80-144
TurboLuc luciferase gene with PDE†	145-717
RNA-DE‡ and modified poly(A) signal	721-954
pUC replication origin (pUC Ori)	1863-1244
SV40 promoter/enhancer.....	1950-2460
Hygromycin (Hygro ^R) gene	2461-3486
SV40 poly(A) signal	3487-3825
Amp ^R promoter.....	4843-4815
beta-lactamase (Amp ^R) gene	4772-3912
Synthetic poly(A) terminator	4860-4908
Modified transcriptional pause site (TPS)	4920-5005

*Optimized 5' UTR region contains RNA-DE for improved response and Kozak for efficient expression of Tluc16

†RNA-DE (RDE): RNA-destabilization elements

‡PDE: Protein destabilization element