

DATASHEET

pGen2.1

Version: 2016-09-14

Cat. No. SD0122

Name: pGen2.1

Size: 10 µg

Description: GenScript vector pGen2.1 is a Human cytomegalovirus (CMV) promoter-based mammalian gene expression vector. CMV promoter* is one of the strongest promoters described. Based on RNA polymerase II system, CMV promoter drives higher-level constitutive expression of genes in a variety of mammalian cell lines. A target gene can be conveniently cloned into pGEN2.1 vector at multiple cloning sites (MCS). The target protein is expressed with the FLAG tag at the N-terminal. This tag will facilitate detection and purification of the target protein using commercially available tag-specific antibodies. This vector also contains a selectable marker for mammalian cells, neomycin phosphotransferase gene, under SV40 promoter.

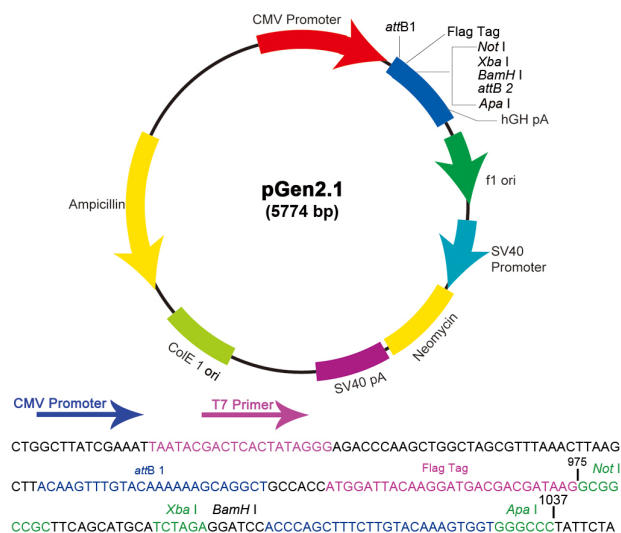
pGen2.1 vector can be used for either transient expression or stable expression in the presence of the antibiotic G418.

Features:

- **CMV promoter** is for high-level constitutive expression of genes in a variety of mammalian cell lines (tm0180).
- **A Flag tag sequence** is placed before the gene of interest for the single column purification and specific detection of the fused protein using specific and sensitive anti-Flag antibodies.
- **The Flag tag sequence** is also the cleavage site by enterokinase (EK) to generate an authentic protein starting with Methionine.

Storage: Store at -20°C.

Map



F1 ori:	1594 - 2022
ColE1 ori:	3786 - 4768
Polylinker:	950 - 986
CMV Promoter:	251 - 818
SV40 Promoter	2046 - 2391
Neomycin:	2432 - 3226
Ampicillin:	4728 - 5588

Forward Sequencing Primer:

DA0009: T7
(TAATACGACTCACTATAGGG)

Reverse Sequencing Primer:

DA0029: SD0122 Reverse
(CTAGTCAGACAAAATGATGC)

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