PCHO1.0

PVT1801 2ug Lot no According to the label

Store at -20℃ Expiry date According to the label

PCHO1.0 Information

Promoter: CMV

Replicon: ori

Terminator: SV40 poly (A) signal

Plasmid classification: mammalian cells, antibody expression vectors

Plasmid size: 12988bp

Prokaryotic resistance: kanamycin Kan

Screening markers: purinomycin Puro

Cloned strain: Escherichia coli DH5 alpha

Culture conditions: 37 centigrade, aerobic, LB

Expression host: mammalian cells

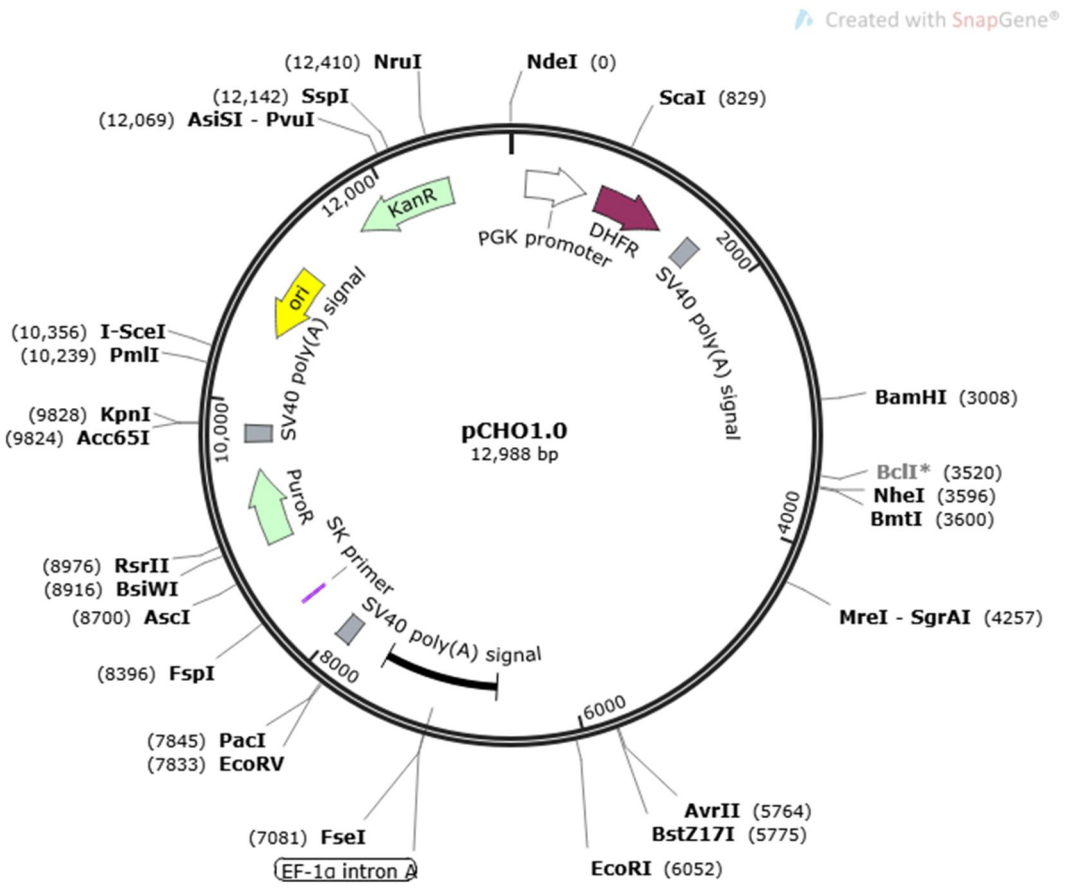
Note: the number of copies is low, and need Maxi Preparation Plasmid.

PCHO1.0 Description

pCHO1.0 vector is designed by ProBioGen AG to express a gene or to use the hybrid CMV promoter above the carrier to co express 2 target genes. This vector contains dihydrofolate reductase (DHFR) selective marker and puromycin resistance gene (puromycin), you can also use MTX and puromycin selection.

Nova lifetech Inc.
Add: MNJ 2059 RM 1062 16/F
OMEGA PLAZA 32 DUNDAS ST MONGKOK KI
HONGKONG
Tel:(852)81700345 Email: sales@lifescience-market.com

PCHO1.0 Map



Comments/elements for pCHO1.0

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12,988 nucleotides

PGK (phosphoglycerate kinase) promoter:	117–623
DHFR (dihydrofolate reductase) gene:	730–1,293
SV40 polyadenylation signal:	1,404–1,631
EF2/CMV hybrid promoter:	1,728–5,517
CMV polyadenylation signal:	5,773–6,052
CMV/EF1 hybrid promoter:	6,093–7,565
SV40 polyadenylation signal:	7,848–8,094
PGK (phosphoglycerate kinase) promoter:	8,351–8,839
Puromycin resistance gene (pac):	8,860–9,459
SV40 polyadenylation signal:	9,583–9,823
pMB1 origin of replication:	10,495–11,168 (c)
Kanamycin resistance gene (aph):	11,684–12,499 (c)

Feature	Benefit
EF2/cytomegalovirus (CMV) hybrid promoter	Allows efficient, high-level expression of your recombinant protein
*Avr*II and *Bst*Z17I restriction enzyme sites	Entry points for gene insertion behind the EF2/CMV promoter (see page 14 for sequencing primers used for analyzing EF2/CMV promoter-gene of interest junction)
CMV polyadenylation signal	Allows efficient transcription termination and polyadenylation of mRNA
CMV/EF1 hybrid promoter	Allows efficient, high-level expression of your recombinant protein
*Eco*RV and *Pac*I restriction enzyme sites	Entry points for gene insertion behind the CMV/EF1 promoter (see page 14 for sequencing primers used for analyzing CMV/EF1 promoter-gene of interest junction)
Simian virus 40 (SV40) polyadenylation signal	Allows efficient transcription termination and polyadenylation of mRNA
*Sfi*I restriction enzyme sites	Allows for removal of the CMV/EF1 expression cassette when using vector for single-subunit expression
Dihydrofolate reductase (DHFR) gene	Allows selection of transfected CHO-S® cells using methotrexate (MTX) (Kaufman *et al.*, 1985)
Puromycin resistance gene (*pac*) (Puromycin N-acetyl-transferase)	Allows selection of transfected CHO-S® cells using Puromycin (de la Luna & Ortin, 1992; Lacalle *et al.*, 1989; Vara *et al.*, 1985)
pMB1 origin of replication	Allows high-copy number replication and growth in *E. coli* (Lin-Chao *et al.*, 1992; Yanisch-Perron *et al.*, 1985)
Kanamycin resistance gene (*aph*) (aminoglycoside phosphotransferase, also known as kanamycin kinase type I)	Allows selection of transformants in *E. coli* (Oka *et al.*, 1981; Vakulenko *et al.*, 1987)

PCHO1.0 Sequences

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Caution:

1. This product is FOR RESEARCH USE ONLY!
2. This product is glycerol packed, Please kindly culture it as soon as possible then harvest and store at -80℃.
3. Shipping temperature is 2-8℃.

Nova lifetech Inc.
Add: MNJ 2059 RM 1062 16/F
OMEGA PLAZA 32 DUNDAS ST MONGKOK KI
HONGKONG
Tel:(852)81700345 Email: sales@lifescience-market.com