

Data Sheet

UCOE® Expression Vector-Mouse 3.2 kb Hygro Set

504866-1SET

FOR RESEARCH USE ONLY

Not for use in diagnostic procedures. Not for human or animal consumption.

Background

UCOE® Expression Vector-Mouse 3.2 kb Hygro Set (UCOE® Mu-H) is an ubiquitous chromatin opening element that offers significant advances in recombinant protein expression. Unlike traditional vectors, our UCOE®-containing vectors have the capacity to ease the process of isolating cell line clones that express high-levels of recombinant proteins. UCOE®-containing vectors promote transcriptional activity of proximal genes by altering chromatin structure.

UCOE® Mu-H is a mammalian expression vector containing the mouse rpS3 UCOE® sequence upstream of a strong human cytomegalovirus immediate early promoter element. The multiple cloning regions contain unique restriction enzyme sites to permit easy subcloning of any gene of interest. A SV40 poly-adenylation site is located downstream of the multiple cloning site to provide mRNA stability.

UCOE® Mu-H contains the hygromycin gene for selection in mammalian cells and the β -lactamase gene for selection in prokaryotic cells. An I-SceI homing restriction endonuclease site is included for linearization to prevent undesired DNA incorporation.

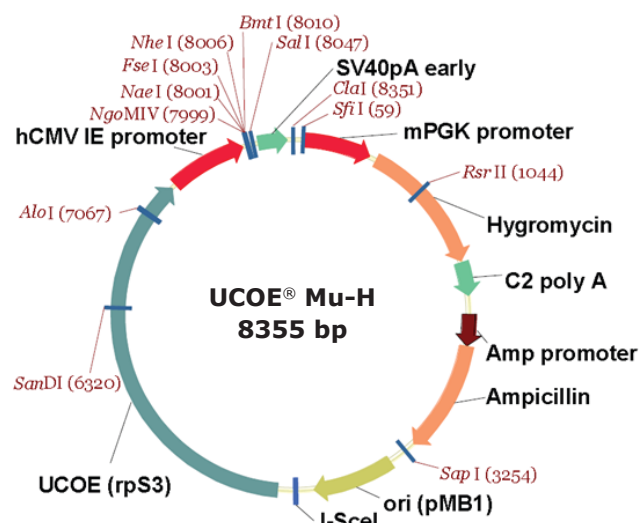
Kit Components

- UCOE® Expression Vector-Mouse 3.2 kb Hygro Set, 1 SET
- UCOE® Mu-H, 10UG
- UCOE® Mu-H Ctrl, 10UG

UCOE® Mu-H Sequence Landmarks

Murine phosphoglycerate kinase (PGK) promoter	69-579
Hygromycin coding region	635-1660
Complement Component 2 (C2) poly A	1672-1929
β -lactamase (Amp) promoter	2071-2314
β -lactamase coding region (Amp)	2316-3173
Origin of replication (ori) (pMB1)	3393-4017
I-SceI Restriction site	4158-4175
UCOE (rpS3)	4295-7342
Human cytomegalovirus IE (hCMV IE) promoter	7376-7965
Multiple cloning region (MCR)	7999-8047
SV40 poly A	8084-8309

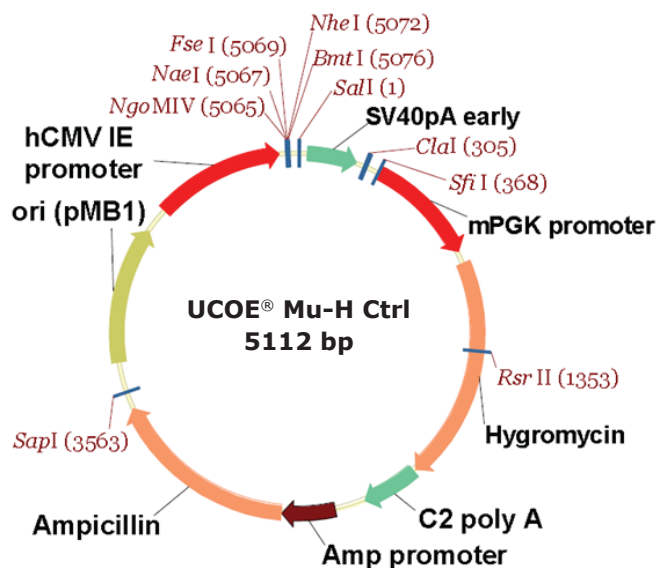
UCOE® Mu-H



MCR

NgoMIV (7999)	NheI (8006)
NaeI (8001)	BmtI (8010)
FseI (8003)	SalI (8047)

UCOE® Mu-H Ctrl



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Document Template 00044503 Ver 1.0

23052866w Ver 1.0, 23052866 Ver 1.0, Rev 23APR2024, LB

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