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Catalog Number	Product Name	Amount
SC005-Bsd	HEK293-TetR (Bsd)	1 vial of cells (>2 x 10 ⁶ cells) in 80% DMEM, 10% FBS, 10% DMSO
SC005-Hygro	HEK293-TetR (Hygro)	
SC005-Neo	HEK293-TetR (Neo)	
SC005-Puro	HEK293-TetR (Puro)	
SC005-RB	HEK293-TetR (RFP-Bsd)	
SC005-RP	HEK293-TetR (RFP-Puro)	
SC005-GB	HEK293-TetR (GFP-Bsd)	

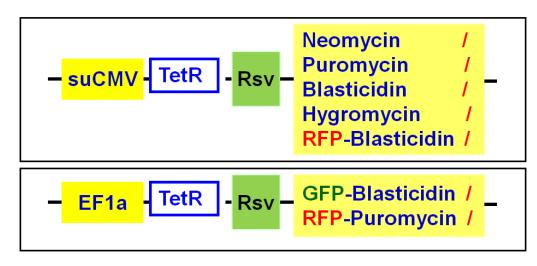
TetR stable cell line manual

Storage: Liquid Nitrogen.

Product Description

The HEK293 Cell Line is a permanent cell line established from primary embryonic human kidney transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein.

Tetracycline repressor (TetR) stable cell is transformed from the HEK293 cell line and stably expresses tetracycline repressor (TetR) gene. It is established by transduction of TetR expression lentivirus. TetR is constitutively expressed at high-levels under suCMV promoter or an **enhanced EF1a** promoter. A selection marker (an antibiotic marker or a fluorescentantibiotic fusion dual marker) is constitutively expressed under RSV promoter. Please see the structure of the **expression cassette** (below) that integrated in the cell genome.





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Amsbio provides premade stable TetR cell lines with different antibiotic marker, which can be used together with **inducible expression lentivirus** for the inducible target expression or generation of the target specific inducible expression cell lines.

Culture procedures

- 1. Thaw the frozen vial of cells quickly in a 37°C water bath (1-3min), decontaminate the outside of the vial with 70% ethanol.
- 2. Transfer the entire contents of the cryovial into a T75 cm² flask containing 15 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO₂.
- 3. The following day, replace the medium with 15 ml of pre-warmed, complete medium.

Note: To maintain the cell line genetic stability for long-term culture, you can add the antibiotic into the culture medium. So optionally, add the specific antibiotic (dependent upon cell line) in the medium at the final concentration as follows:

Bsd (Blasticidin): 10 μg/ml Hygro (Hygromycin): 100 μg/ml Neo (Neomycin): 500 μg/ml Puro (Puromycin): 1 μg/ml

- 4. Incubate the cells and monitor cell density.
- 5. Passage cells (1:10 dilution) when the culture reaches 80-90% confluency.
- 6. Freeze cells at a density of 3×10^6 cells/ml using 90% complete medium with 10% DMSO.

Complete medium

D-MEM (high glucose)2mM L-glutamine10% Fetal Bovine Serum (FBS)0.1 mM MEM Non-Essential Amino Acids (NEAA)1% Pen-Strep

Quality Control

Each vial contains greater than 2×10^6 cells with >95% viability before freeze. Cells are tested to be free from bacteria, viruses and mycoplasma.

Warranty

- 1. This product is warranted to perform as described when used in accordance with this manual. Amsbio's sole remedy for breach of warranty should be, at the option of Amsbio, to repair or replace the product if this product does not meet the stated quality standard.
- 2. By paying the purchase price, buyer is granted a non-transferable, non-exclusive license to use the product. This product is sold **for research and development purposes only**. This product is limited to the laboratory that the product is delivered to. Furthermore, **research use only** means



that this product is excluded, without limitation, from re-sale, repackaging, or modification to be used for the making or selling of any commercial products or services.

Related Products:

Product	Product Description:	
Category	Pre-made expression lentiviruses with different selection markers.	
Pre-made stable	Mammalian cell lines with different selection markers, expressing CRE	
cell lines	recombinase, or a fluorescent protein (GFP/RFP/CFP/YFP), or CRE recombinase,	
	or a human ion channel target, or loxP response element (CRE reporting,	
	ColorSwtich), or lacZ target, or a human ORF.	
GFP / RFP/	Premade lentivirus expressing a flourescent protein with different antibiotic	
YFP/ CFP	marker.	
Luciferase	Premade lentivirus for all kinds of luciferase protein expression: firefly, Gaussia,	
expression	Renilla and Cypridina with different antibiotic selection markers.	
CRE	Premade lentivirus for expressing nuclear permeant CRE recombinase with	
recombinase	different flurescent and antibiotic markers.	
LoxP	Premade lentivirus expressing "LoxP-GFP-Stop-LoxP-RFP" cassette, used to	
ColorSwitch	monitor the CRE recombination event in vivo.	
TetR inducible	Premade lentivirus expressin TetR (tetracycline regulator) protein, the repressor	
repressor	protein for the inducible expression system.	
	Premde lentivirus for human and mouse iPS (Myc, NANOG, OCT4, SOX2,	
iPS factors	FLF4) factors with different fluorescent and antibiotic markers	
Human and	Premade lentivirus expressing hundreds of human and mouse ORFs with RFP-	
mouse ORFs	Blastididin fusion dual markers.	
Living cell	Pre-made lentivirus particles for Cell Organelle imaging for Nucleus, Cytoplasm,	
imaging	Endoplasmic Reticulum, Golgi, Mitochondria, Nuclear membrane,	
	Peroxisome, Plasma membrane, Microtubule, Chromatin, Annexin, Actin,	
	Connexin, and more.	
Fluorescent-	Pre-made lentivirus expression a "GFP/RFP/CFP-ORF" fusion target.	
ORF fusion		
shRNA	Premade shRNA lentivirus for knockdown a specific genes (P53, LacZ, Luciferase	
lentivirus	and more).	
Negative	Premade negative control lentivirus with different markers: serves as the	
controls	negative control of lentivirus treatment, for validation of the specificity of any lentivirus target expression effects.	



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