ExpressCells

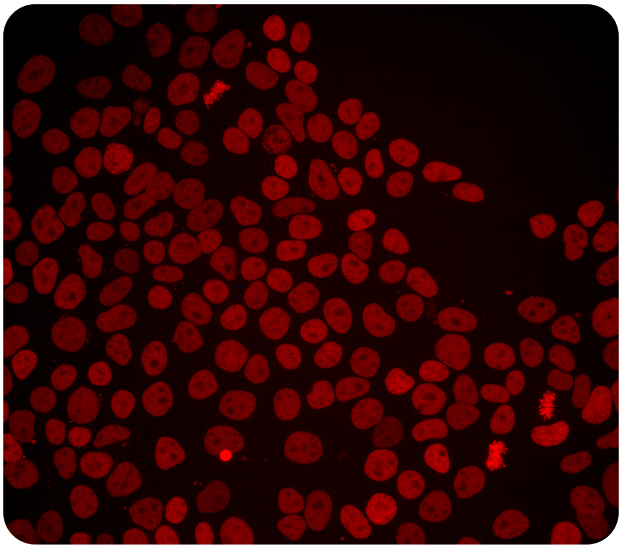
info@xpresscells.com
www.xpresscells.com

CUSTOM CELL LINE SERVICES AVAILABLE
UP TO 3 KNOCK-INS IN A SINGLE CELL LINE

HISTONE H3.3

Gene-tagged cell line (HEK 293T)

Catalog no: EXP-005



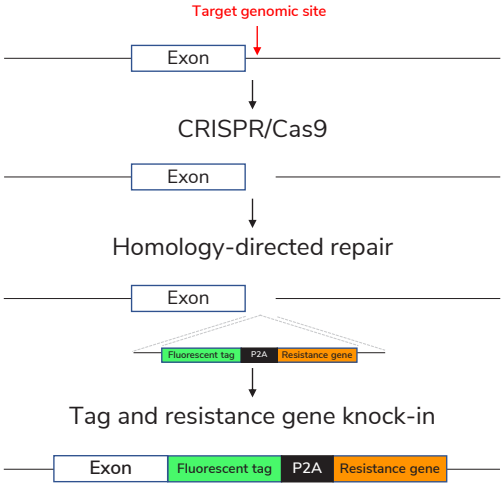
Cell type:	HEK 293T
Gene symbol:	H3F3B
NCBI gene ID:	3021
Protein:	Histone H3.3
Subcellular location:	Nucleus
Modification:	C-terminal mRuby3
Excitation / Emission (nm):	558 / 592
Antibiotic resistance:	Zeocin™
Population type:	Heterozygous

Protein summary from NCBI database

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes.... [provided by RefSeq, Oct 2015]

ExpressCells' FAST-HDR knock-in technology

ExpressCells uses CRISPR and FAST-HDR vector technology to knock-in fluorescent, luminescent, or other tags at the C-terminus of endogenous genes. The non-viral FAST-HDR system enables rapid labeling of up to three proteins of interest in a single mammalian cell line.



Handling

Culture medium: Dulbecco's Modified Eagle Medium (DMEM), high glucose supplemented with 10% fetal bovine serum (FBS) and penicillin/streptomycin to prevent bacterial contamination.
Thawing: Transfer the frozen tube to a 37° C water bath and let contents thaw. Transfer tube contents to 10 mL of prewarmed medium in a biosafety hood and centrifuge at 200 × g for 5 min. Resuspend the pellet in 5 mL of medium and transfer to a mammalian cell culture flask.
Safety: Biosafety level 2.

References

1. Gene [database online]. Washington DC: NCBI; 2020. https://www.ncbi.nlm.nih.gov/gene/3021 Accessed March 18, 2020.
2. Perez-Leal O, Nixon-Abell J, Barrero CA, Gordon J, Rico MC. A versatile vector system for the fast generation of knock-in cell lines with CRISPR [preprint published online February 6 2020]. *bioRxiv*. doi: 10.1101/2020.02.06.927384.

For research use only.

U.S. Patent #10,883,120