



ExpressCells

info@xpresscells.com

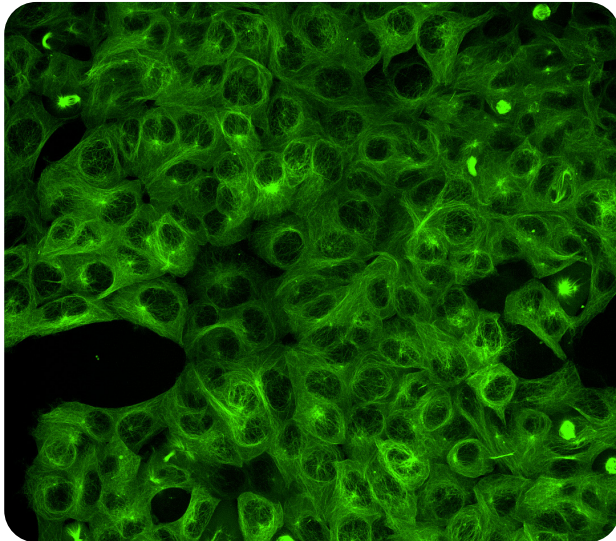
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CUSTOM CELL LINE SERVICES AVAILABLE UP TO 3 KNOCK-INS IN A SINGLE CELL LINE

## BETA-TUBULIN

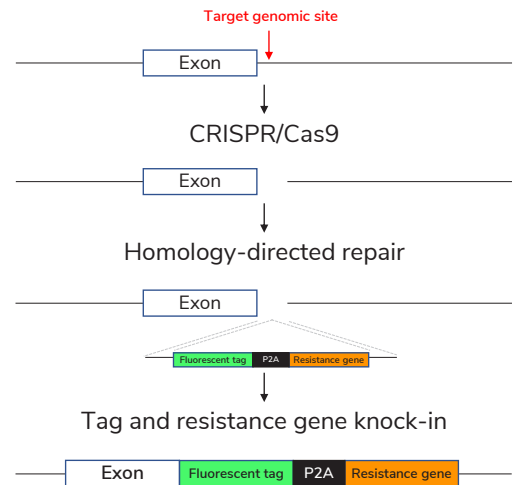
### Gene-tagged cell line (HEK 293T)

Catalog no: EXP-006



### 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.



Cell type:	HEK 293T
Gene symbol:	TUBB
NCBI gene ID:	203068
Protein:	$\beta$ -Tubulin
Subcellular location:	Microtubules
Modification:	C-terminal mClover3
Excitation / Emission (nm):	506 / 518
Antibiotic resistance:	Puromycin
Population type:	Heterozygous

### 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/203068>. 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.

### Protein summary from NCBI database

This protein forms a dimer with alpha tubulin and acts as a structural component of microtubules... [provided by RefSeq, Jun 2014]

For research use only.

U.S. Patent #10,883,120