



ExpressCells

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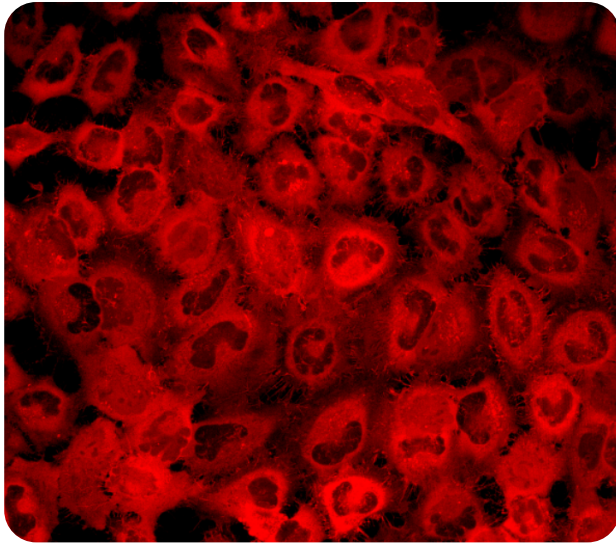
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CUSTOM CELL LINE SERVICES AVAILABLE
UP TO 3 KNOCK-INS IN A SINGLE CELL LINE

EZRIN

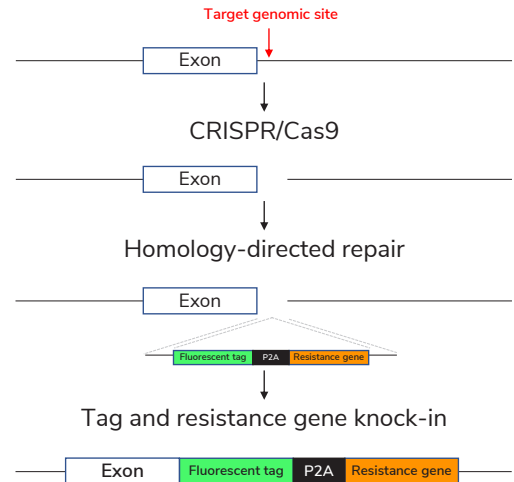
Gene-tagged cell line (HeLa)

Catalog no: EXP-001



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: | HeLa |
| Gene symbol: | EZR |
| NCBI gene ID: | 7430 |
| Protein: | Ezrin |
| Subcellular location: | Cell membrane |
| Modification: | C-terminal mRuby3 |
| Excitation / Emission (nm): | 558 / 592 |
| Antibiotic resistance: | Zeocin™ |
| Population type: | Homozygous |

Protein summary from NCBI database

As a member of the ERM protein family, this protein serves as an intermediate between the plasma membrane and the actin cytoskeleton. This protein plays a key role in cell surface structure adhesion, migration and organization, and it has been implicated in various human cancers. A pseudogene located on chromosome 3 has been identified for this gene. Alternatively spliced variants have also been described for this gene. [provided by RefSeq, Jul 2008]

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

- Gene [database online]. Washington DC: NCBI; 2020. <https://www.ncbi.nlm.nih.gov/gene/7430>. Accessed February 6, 2020.
- Bretsche A. Regulation of cortical structure by the ezrin-radixin-moesin protein family. *Curr Opin Cell Biol.* 1999;11:109-116.
- Jiang Wang, Xiaolin Zhao, Jun Qi, Caihong Yang, Hao Cheng, Ye Ren, Lei Huan. Eight proteins play critical roles in RCC with bone metastasis via mitochondrial dysfunction. *Clin Exp Metastasis.* 2015;32:605-622.
- 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.

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U.S. Patent #10,883,120