

Resource Summary Report

Generated by [RRID](#) on Sep 6, 2026

FIRE1CS clone 1

RRID:CVCL_E6HQ

Type: Cell Line

Proper Citation

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Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_E6HQ

Proper Citation: RRID:CVCL_E6HQ

Description: Cell line FIRE1CS clone 1 is a Embryonic stem cell with a species of origin Mus musculus (Mouse)

Sex: Male

Defining Citation: [PMID:39824193](#)

Comments: Characteristics: This cell line contains a FIRE1 biosensor (mClover3-sensor, mCherry-control) and is transposed with two PiggyBac constructs FIRES-PBCS-CLV3 and FIREC-PBCS-MC2 flanking FIRE sensor and control fluorescent protein, respectively. The FIRE sensor is composed of a 740 bp sequence synthesized based on known mammalian IRP1/2 binding sites (PubMed=39824193)., Characteristics: Expresses a Fe-IRE (FIRE) biosensor that senses IRP activity and cellular iron status (PubMed=39824193).

Category: Embryonic stem cell

Organism: Mus musculus (Mouse)

Name: FIRE1CS clone 1

Synonyms: FIRE1CS-178A3

ID: CVCL_E6HQ

Hierarchy: cvcl_c865

Record Creation Time: 20250423T095612+0000

Record Last Update: 20260905T185102+0000

Ratings and Alerts

No rating or validation information has been found for FIRE1CS clone 1.

No alerts have been found for FIRE1CS clone 1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Sangokoya C, et al. (2025) The genetically encoded biosensor FEOX is a molecular gauge for cellular iron environment dynamics at single cell resolution. Scientific reports, 15(1), 36596.