

Consistently high-quality feeder cells

Superior performance for feeder-dependent culture

Gibco™ Mouse Embryonic Fibroblasts (MEFs) are high-quality feeder cells used to support the growth and pluripotency of embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs). They are manufactured by MTI-GlobalStem, a company well known for their superior-performing feeder cells. The cells are cited in hundreds of publications and are rigorously tested for consistently high quality.

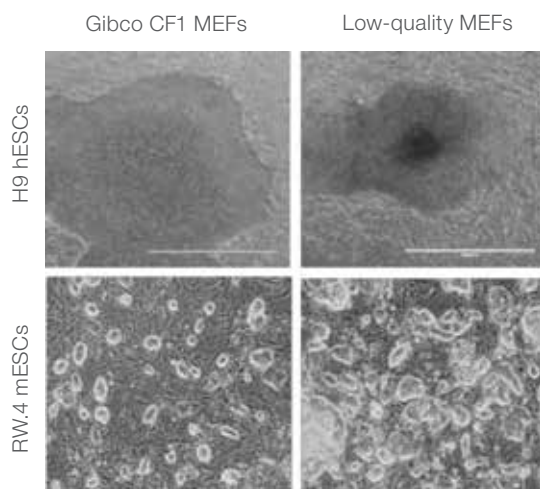


Figure 1. Gibco MEFs support healthy human and mouse PSC cultures. Human ESCs (hESCs) and mouse ESCs (mESCs) were plated on Gibco CF1 MEFs or low-quality MEFs. hESC and mESC colonies grown on Gibco MEFs are compact and have defined edges, indicative of healthy undifferentiated ESCs. By contrast, hESC and mESC colonies grown on low-quality MEFs are less defined, less compact, and show indications of differentiation.

Gibco Mouse Embryonic Fibroblasts are:

- Tested for their ability to support pluripotency of mouse and human ESCs (Figures 1 and 2)
- Checked for mycoplasma, bacteria, and fungi to reduce the risk of contamination
- Pre-inactivated and ready to use to help save time (Figure 3)
- Available in different strains, sizes, and treatments to fit your needs (Table 1)

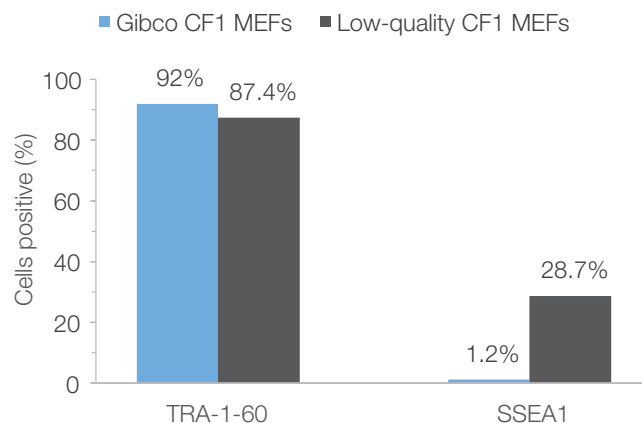


Figure 2. Gibco MEFs maintain pluripotency of PSC cultures. H9 ESCs were plated on Gibco CF1 MEFs or low-quality CF1 MEFs. Cells grown on Gibco CF1 MEFs show improved maintenance of undifferentiated hESCs compared to low-quality MEFs, as indicated by higher TRA-1-60 expression and much lower SSEA1 expression when analyzed by flow cytometry.








Timed mating	Embryo dissection	Isolation and banking	Expansion	Treatment	Cryopreservation	Testing and quality control
≥2 weeks	~1 week					
						

Figure 3. The typical MEF preparation time saved with Gibco MEFs. Laboratories typically set up timed matings to embryonic day 13.5, spend approximately 1 week preparing MEFs, and may spend additional time performing quality testing. The absence of quality testing increases the risk of using contaminated or low-quality MEFs.

Table 1. Product details and ordering information.

Product	Quantity	Cat. No.	Recommended use
Gibco CF1 Mouse Embryonic Fibroblasts, Irradiated	2 x 10 ⁶ cells	A34180	For routine culture of mouse or human ESCs or iPSCs. Most commonly used feeder cells.
	4 x 10 ⁶ cells	A34181	
Gibco CF1 Mouse Embryonic Fibroblasts, MitC-Treated	2 x 10 ⁶ cells	A34958	
	4 x 10 ⁶ cells	A34959	
Gibco C57BL/6 Mouse Embryonic Fibroblasts, Irradiated	2 x 10 ⁶ cells	A34960	For routine culture of mouse or human ESCs or iPSCs. Highly recommended for mouse ESC or iPSC culture.
	4 x 10 ⁶ cells	A34961	
Gibco C57BL/6 Mouse Embryonic Fibroblasts, MitC-Treated	4 x 10 ⁶ cells	A34962	
Gibco CF6-Neo Mouse Embryonic Fibroblasts, Irradiated	4 x 10 ⁶ cells	A34963	For single-drug selection with Geneticin™ (G418) antibiotic.
Gibco CF6-Neo Mouse Embryonic Fibroblasts, MitC-Treated	4 x 10 ⁶ cells	A34964	
Gibco B6-Puro Mouse Embryonic Fibroblasts, Irradiated	2 x 10 ⁶ cells	A34965	For single-drug selection with puromycin.
Gibco DR4 Mouse Embryonic Fibroblasts, Irradiated	2 x 10 ⁶ cells	A34966	For selection with the following drugs: Geneticin, puromycin, hygromycin, and 6-thioguanine.

Find out more at thermofisher.com/gibcomef