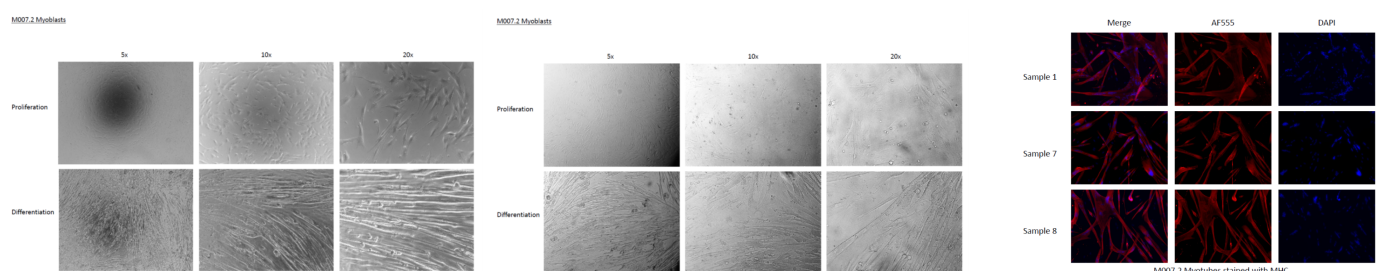




Immortalized clonal human myoblast line "M007"

Immortalized human myoblast cell line obtained from a healthy individual

Technology No. 2021-256



Applications

- Research and testing of myogenesis
- Myotube development
- Differentiation
- Drug development

Technology Overview

Immortalized human myoblast cell line from primary myoblasts obtained from the muscle biopsy of a healthy individual. The cells were immortalized by overexpressing hTERT, CCND1 and a mutant CDK4, using two vectors pLV-hTERT-IRES-hygro and pbabe-cyclinD1+CDK4R24C from Addgene. These cells can grow indefinitely and can be differentiated into myotubes in vitro, by changing the medium to "differentiation medium", essentially withdrawing growth factors

Technical Information

Organism: *Homo sapiens* (human)

Tissue: Skeletal Muscle

Disease: Normal

Karyotype: 46XX [20/20 normal metaphase spreads]

Product format: Frozen

Desired Partnerships

This cell line is fully developed and available for license. Please contact our office to learn more.

Researchers

- [Michael Kyba, PhD](#) Professor, Department of Pediatrics
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References

Darko Bosnakovski, Erik A Toso, Elizabeth T Ener, Micah D Gearhart, Lulu Yin, Felipe F Lüttmann, Alessandro Magli, Ke Shi, Johnny Kim, Hideki Aihara, Michael Kyba (October 2023), <https://www.sciencedirect.com/science/article/pii/S2589004223019004?via%3Dihub>, <https://doi.org/10.1016/j.isci.2023.107823>, 26

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