Organism: *Mus musculus*, mouse
Strain: C3HeB/FeJ
Tissue: pancreas
Disease: insulinoma
Cell Type: pancreatic islet beta cell
Morphology: epithelial-like
Growth Properties: adherent

### Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

### SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

### Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

### Subculturing Procedure

Volumes used in this protocol are for 75 cm² flasks; proportionally reduce or increase amount of dissociation medium for culture vessels of other sizes.

1. Remove and discard culture medium.
2. Briefly rinse the cell layer with Ca²⁺/Mg²⁺ free Dulbecco's phosphate-buffered saline (D-PBS) or 0.05% (w/v) Trypsin - 0.02% EDTA solution to remove all traces of serum which contains trypsin inhibitor.
3. Add 1.0 to 2.0 mL of 0.05% Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37.0°C to facilitate dispersal.
4. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessels.

**Subcultivation Ratio**: A subcultivation ratio of 1:3 to 1:5 is recommended
**Medium Renewal**: 2 to 3 times per week
**Seeding Density**: 1.0x 10⁵ to 3.0 x 10⁵ cells/cm²

### Cryopreservation Medium

10% DMSO, 90% FBS

### Comments

This cell line was derived from an insulinoma arising in a double-transgenic mouse expressing the SV40 T antigen oncogene in pancreatic β cells under the tet-off system. In-house validation test shows growth arrest and further differentiation upon addition of 5 ng/ml tetracycline.

### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S.
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