

STARBUCK CLONING PROCEDURE

Hereafter is the succinct cloning procedure, starting with the recovery of cells from Starbuck until the birth of his clone Starbuck II.

1. Cells from Starbuck are recovered one month before his death in September 1998. These cells are frozen until the time chosen to produce the cloned embryos. Each one can supply what is called a donor nucleus.
2. Oocytes from a Holstein donor cow are collected, representing the host oocytes.
3. The oocyte nuclei are removed for enucleation.
4. Though micro-injection, a nucleus from the donor individual is inserted in each oocyte.
5. Electrofusion allows for the fusion of the donor cell to the host cell.
6. The young embryos thus produced are placed in *in vitro* culture and develop into blastocyst-stage embryos. After that, embryo transfer is performed on recipient cows.
7. Starbuck II is born on September 7, 2000 by caesarean section, weighing 54,2 kg at birth.

