

[Open Peer Review on Qeios](#)

# MAGE-A3 Reactive T Cell Receptor-transduced Autologous T Cells

National Cancer Institute

## Source

National Cancer Institute. *MAGE-A3 Reactive T Cell Receptor-transduced Autologous T Cells*. NCI Thesaurus. Code C97035.

Human autologous T-lymphocytes transduced with a retroviral vector encoding a T cell receptor (TCR) specific for the human melanoma antigen A3 (MAGE-A3), with potential antineoplastic activity. Upon isolation, transduction, expansion ex vivo, and reintroduction into the patient, the MAGE-A3 reactive TCR-transduced autologous T cells bind to tumor cells expressing MAGE-A3, which may halt the growth of MAGE-A3-expressing cancer cells; the TCR is specific for MAGE-A3:168-176.