

## Claims

1. A recombinant T cell expressing a nucleic acid of SEQ ID No. 2 or SEQ ID No. 5 for use in medicine, wherein said T cell further comprises a nucleic acid encoding a chimeric antigen receptor or a T cell receptor.
2. The recombinant T cell according to claim 1, wherein said nucleic acid of SEQ ID No. 2 or SEQ ID No. 5 is operably linked to a promoter.
3. The recombinant T cell according to claim 1 or 2, wherein said recombinant nucleic acid is encoded on an expression vector, preferably a viral vector or a plasmid.
4. The recombinant T cell according to claim 3, where in said expression vectors triggers the high level expression of the nucleic acid of SEQ ID No. 2 or SEQ ID No.5.
5. The recombinant T cell according to any one of claims 1-4, wherein the nucleic acid comprising the nucleic acid sequence of SEQ ID No. 2 or SEQ ID No. 5 is located within the coding region of said chimeric antigen receptor or said T cell receptor, preferably in the intracellular part of the chimeric antigen receptor or the T cell receptor.
6. The recombinant T cell according to any one of the preceding claims, wherein said chimeric antigen receptor or said T cell receptor is specific for a cancer antigen.
7. The recombinant T cell according to claim any one of claims 1-6, wherein said use in medicine is the use in the treatment of cancer, preferably the treatment of a melanoma, NSCLC, sarcoma or a HPV-associated cancer.
8. The recombinant T cell according to any one of claims 1-7, wherein said recombinant T cell, is a CD8-positive T cell, preferably a tumor infiltrating lymphocyte (TIL) or a peripheral blood lymphocyte (PBL) isolated from a patient afflicted with cancer.
9. The recombinant T cell according to any one of claims 1-8, wherein said T cell is an isolated or purified T cell, preferably an isolated or purified human T cell.
10. A population of cells comprising at least one recombinant T cell of any of claims 1-9.
11. A composition comprising at least one recombinant T cell of any of claims 1-9 or a population of cells according to claim 10, and a pharmaceutical carrier.