CLAIMS

1. A methylotrophic yeast cell whose genome comprises a sequence encoding transforming growth factor beta (TGFβ).

2. The yeast cell of claim 1, wherein:

   (a) the yeast cell is a *Pichia pastoris* cell;

   (b) the TGFβ is TGFβ1, TGFβ2 or TGFβ3, optionally human TGFβ3; and/or

   (c) the sequence comprises the nucleic acid sequence of SEQ ID NO: 13, SEQ ID NO: 12 or SEQ ID NO: 4.

3. The yeast cell of claim 1 or claim 2, wherein the yeast cell has been transformed using a plasmid.

4. The yeast cell of claim 3, wherein the plasmid comprises a promoter, the coding sequence, and a terminator.

5. The yeast cell of claim 4, wherein the plasmid additionally comprises a signal peptide and/or wherein the promoter is an alcohol oxidase I (AOX1) promoter.

6. The yeast cell of claim 4 or claim 5, wherein the promoter comprises the nucleic acid sequence of SEQ ID NO: 5.

7. The yeast cell of claim 5 or claim 6, wherein the signal peptide is an alpha mating-factor signal peptide.

8. The yeast cell of any one of claims 5-7, wherein the signal peptide comprises the nucleic acid sequence of SEQ ID NO: 6.

9. The yeast cell of any one of claims 4-8, wherein the terminator is an alcohol oxidase I (AOX1) terminator and/or wherein the terminator comprises the nucleic acid sequence of SEQ ID NO: 7.

10. The yeast cell of any one of claims 4-9, wherein the plasmid comprises the nucleic acid sequences of SEQ ID NOs: 4-7, preferably the nucleic acid sequence of SEQ ID NO: 9.

11. The yeast cell of any one of claims 4-9, wherein the plasmid comprises the nucleic acid sequences of SEQ ID NOs: 12 and 5-7.

12. The yeast cell of any one of claims 4-9 and 11, wherein the plasmid comprises the nucleic acid sequence of SEQ ID NO: 16.

13. The yeast cell of any one of claims 4-9, wherein the plasmid comprises the nucleic acid sequences of SEQ ID NOs: 13 and 5-7 and/or the nucleic acid sequence of SEQ ID NO: 17.

14. A methylotrophic yeast cell capable of expressing TGFβ, optionally wherein the yeast cell is capable of expressing TGFβ1, TGFβ2 or TGFβ3 and/or wherein the yeast cell is a *Pichia pastoris* cell.

15. A polypeptide comprising the amino acid sequence of SEQ ID NO: 3, obtained or obtainable from the yeast cell of any preceding claim.

16. A method of producing a TGFβ polypeptide, wherein the method comprises transforming a methylotrophic yeast cell with a plasmid encoding TGFβ.

17. A method of producing a TGFβ polypeptide, wherein the method comprises cultivating the yeast cell of any of claims 1-14 under conditions which allow for expression of said polypeptide and, optionally, recovering the expressed polypeptide, optionally further comprising i) optimising a nucleic acid encoding a TGFβ polypeptide for expression in yeast, optionally methylotrophic yeast, further optionally *Pichia pastoris*, ii) screening more than ten clones for expression of TGFβ, optionally at least twenty clones, and/or iii) detecting expression with a HiBiT peptide tag or a his-tag.

18. The method of claim 16 or claim 17, wherein the TGFβ polypeptide is a TGFβ3 polypeptide.

19. A method of growing an animal cell, wherein the method comprises cultivating the animal cell in a growth media containing the polypeptide of claim 15.

20. Use of the polypeptide of claim 15 in an animal cell growth media.