second polynucleotide encoding a N-acetylglucosaminyltransferase II catalytic domain.

6. The PMT-deficient filamentous fungal cell of any one of claims 1-5, further comprising one or more polynucleotides encoding a polypeptide selected from the group consisting of:

    a) α1,2 mannosidase;
    b) N-acetylglucosaminyltransferase I catalytic domain;
    c) α mannosidase II;
    d) N-acetylglucosaminyltransferase II catalytic domain;
    e) β1,4 galactosyltransferase; and,
    f) fucosyltransferase.

7. The PMT-deficient filamentous fungal cell of any one of claims 1-6, wherein said cell is a *Trichoderma* cell comprising a mutation that reduces or eliminates the protein O-mannosyltransferase activity of *Trichoderma* pmt1.

8. The PMT-deficient filamentous fungal cell of any one of claims 1-7, wherein said cell is a *Trichoderma* cell, for example *Trichoderma reesei*, and said cell comprises mutations that reduce or eliminate the activity of

    a) the three endogenous proteases pep1, tsp1 and slp1;
    b) the three endogenous proteases gap1, slp1 and pep1;
    c) the three endogenous proteases selected from the group consisting of pep1, pep2, pep3, pep4, pep5, pep8, pep11, pep12, tsp1, slp1, slp2, slp3, slp7, gap1 and gap2;
    d) three to six proteases selected from the group consisting of pep1, pep2, pep3, pep4, pep5, tsp1, slp1, slp2, slp3, gap1 and gap2; or
    e) seven to ten proteases selected from the group consisting of pep1, pep2, pep3, pep4, pep5, pep7, pep8, tsp1, slp1, slp2, slp3, slp5, slp6, slp7, slp8, tpp1, gap1 and gap2.