Claims:

1. A nucleic acid molecule comprising:
    (i) at least one synthetic GAL1 core promoter containing one or more ligand responsive operator sequences; wherein the one or more ligand responsive operator sequences comprise one or more FadR operator sites;
    (ii) at least one upstream enhancer element (UEE) selected from the group consisting of TEF1 (SEQ ID NO:4), PGK1 (SEQ ID NO:5), HXT7 (SEQ ID NO:6), CUP1 (SEQ ID NO:7) and PHO5 (SEQ ID NO:8); and
    (iii) at least one nucleotide sequence encoding for one or more genes of interest;

wherein the at least one synthetic GAL1 core promoter is operably linked to the at least one nucleotide sequence encoding for one or more genes of interest and the at least one upstream enhancer element (UEE) is operably linked to the at least one synthetic GAL1 core promoter.

2. The nucleic acid molecule of claim 1, wherein the at least one synthetic GAL1 core promoter contains 2 or more FadR operator sites.

3. The nucleic acid molecule of claim 1, wherein each of the one or more FadR operator sites independently comprises or consists of the nucleic acid sequence ATCTGGTACGACCAGAT (SEQ ID NO:1).

4. The nucleic acid molecule of claim 1, wherein the at least one synthetic GAL1 core promoter further comprises the nucleic acid sequence TATAAA (SEQ ID NO:2).

5. The nucleic acid molecule of claim 1, wherein the at least one synthetic GAL1 core promoter comprises or consists of the nucleic acid sequence:
    (i) set forth in SEQ ID NO:3; or
    (ii) having at least 70% sequence identity with the nucleic acid sequence set forth in SEQ ID NO:3, wherein the nucleic acid sequence comprises one or more FadR operator sites having the nucleic acid

sequence set forth in SEQ ID NO:1 and/or a TATA-box sequence having the nucleic acid sequence set forth in SEQ ID NO:2.

6. The nucleic acid molecule of claim 1, wherein any two or three of the at least one synthetic GAL1 core promoter, the at least one upstream enhancer element and the at least one nucleotide sequence encoding for one or more genes of interest are not naturally associated with each other.

7. An expression system comprising the nucleic acid molecule of claim 1.

8. The expression system of claim 7, wherein the one or more FadR operator sites originate from a prokaryotic organism.

9. The expression system of claim 8, wherein the one or more FadR operator site confers fatty acid or fatty acyl CoA regulation to the promoter.

10. The expression system of claim 8, wherein the one or more FadR operator sites originates from *Escherichia coli* and/or *Vibrio cholerae*.

11. The expression system of claim 7, wherein the at least one synthetic GAL1 core promoter originates from *Saccharomyces cerevisiae*.

12. The expression system of claim 7, wherein the one or more genes of interest comprises a nucleic acid sequence to encode a protein that modulates fatty acid or fatty acyl CoA metabolism for production of fatty acid derivatives.

13. A recombinant cell comprising an expression system according to claim 7.

14. The recombinant cell of claim 13, wherein the recombinant cell is a genetically engineered eukaryotic cell.

15. The recombinant cell of claim 14, wherein the eukaryotic cell is a *Saccharomyces cerevisiae* cell.

16. A method for the recombinant expression of a gene product of interest, comprising cultivating the recombinant cell of claim 13 under conditions that allow the expression of a gene product of interest.

17. The method of claim 16, wherein conditions that allow the expression of a gene product of interest comprises the presence of a saturated fatty acid.

18. The method of claim 17, wherein the saturated fatty acid is selected from myristic acid, lauric acid and palmitic acid.

19. The method of claim 16, wherein when the at least one upstream enhancer element comprises an inducible enhancer element set forth in SEQ ID NO. 7, the conditions that allow the expression of a gene product of interest comprise the presence of fatty acids and the presence of copper.

20. The method of claim 16, wherein when the at least one upstream enhancer element comprises an inducible enhancer element set forth in SEQ ID NO. 8, the conditions that allow the expression of a gene product of interest comprise the presence of fatty acids and the depletion of phosphates.