Claims

1. A lipase variant comprising at least 95% sequence similarity to SEQ ID No. 2, and at least one substituent of a lipase sequence of SEQ ID No. 2, wherein the at least one substituent is selected from the group consisting of F251, I204D, I204F, I204N, V254D, V254F, V254N, V254R and combinations thereof.

2. The lipase variant according to claim 1 wherein the F251 substituent is selected from the group consisting of asparagine, alanine, cysteine, aspartic acid, glutamic acid, glycine, histidine, isoleucine, lysine, leucine, methionine, proline, glutamine, arginine, serine, threonine, valine, tryptophan and tyrosine.

3. The lipase variant according to claim 1 or claim 2, wherein the at least one substituent is F251 and further comprises a S253 substituent, preferably S253T.

4. The lipase variant according to claim 3, wherein the F251 substituent is selected from the group consisting of F251N, F251A, F251D, and F251Q.

5. The lipase variant according to any one of claims 1 to 4 comprising a D156 substituent of the lipase sequence of SEQ ID No.2, and preferably the at least one substituent is F251.

6. The lipase variant according to any one of claims 1 to 5, wherein the at least one substituent is F251, the lipase variant comprising a S237N substituent and a L239T substituent or a D243N substituent and a S245T substituent.

7. The lipase variant according to any one of claims 1 to 6, wherein the lipase variant comprises at least 96% sequence similarity to SEQ ID No. 2.

8. The lipase variant according to any one of claims 1 to 6, wherein the lipase variant consists essentially of the substituent/s.

9. The lipase variant according to claim 8, wherein the lipase variant consists of the substituent/s.

10. The lipase variant according to claim 1 comprises a sequence selected from the group consisting of SEQ ID No. 5, SEQ ID No. 6, SEQ ID No. 7, SEQ ID No. 8, SEQ ID No. 9, SEQ ID No. 10, SEQ ID No. 11, SEQ ID No. 12, SEQ ID No. 13, SEQ ID No. 14, SEQ ID No. 15, SEQ ID No. 16, SEQ ID No. 17, SEQ ID No. 18, SEQ ID No. 19. SEQ ID No. 20, SEQ ID No. 21, SEQ ID No. 22, SEQ ID No. 23, SEQ ID No. 24, SEQ ID No. 25, SEQ ID No. 26, SEQ ID No. 27, SEQ ID No. 28, SEQ ID No. 29, SEQ ID No. 31, SEQ ID No. 32, SEQ ID No. 33, SEQ ID No. 36, SEQ ID No. 37, SEQ ID No. 38, SEQ ID No. 39, SEQ ID No. 40, SEQ ID No. 41, SEQ ID No. 42, SEQ ID No. 43, SEQ ID No. 44, SEQ ID No. 45, SEQ ID No. 46, SEQ ID No. 47, SEQ ID No. 48, SEQ ID No. 49, SEQ ID No. 50, SEQ ID No. 51, SEQ ID No. 52, SEQ ID No. 53, SEQ ID No. 54, SEQ ID No. 55, SEQ ID No. 56, SEQ ID No. 57, SEQ ID No. 58, and SEQ ID No. 59.

11. A method comprising providing the lipase variant according to any one of claims 1 to 10, a first ester and a reactant, wherein the reactant is selected from the group consisting of water, an acid and a second ester; and forming a reaction product between the first ester and the reactant with the aid of the lipase variant under suitable reaction conditions.

12. The method according to claim 11 wherein the first ester is a fatty acid ester, preferably a triacylglyceride.

13. The method according to claim 12 wherein the fatty acid ester or triacylglyceride is selected from the group consisting of olive oil, castor oil, sunflower oil, high oleic sunflower oil, rapeseed oil, high oleic rapeseed oil, palm oil, palm fraction enriched in tripalmitin, shea butter, shea olein, canola oil, glycerol trioctanoate, tributyrin, methyl octanoate, methyl decanoate, methyl dodecanoate, and vinyl laurate.

14. The method according to any one of claims 11 to 13 wherein the reactant is a medium chain fatty acid or ester.

15. The method according to claim 14 wherein the reactant is selected from the group consisting of octanoate ester, decanoate ester, dodecanoate ester, and mixtures thereof.

16. The method according to any one of claims 14 to 15 wherein the reaction product is a triacylglyceride with medium chain fatty acids at a 1,3-position of the triacylglyceride and a long chain fatty acid at a 2-position of the triacylglyceride.

17. The method according to any one of claims 11 to 13 wherein the reactant is a long chain fatty acid or ester.

18. The method according to claim 11 wherein the first ester is palm oil and the reactant is oleic acid, oleic ester, linoleic acid or linoleic ester.

19. The method according to claim 18 wherein the first ester is palm fraction enriched in tripalmitin.

20. The method according to claim 13 wherein the fatty acid ester or triacylglyceride is selected from the group consisting of olive oil, high oleic sunflower oil, and high oleic rapeseed oil, and the reactant is stearic acid or stearic ester.

21. The method according to claim 20 wherein the reaction product is 1,3-distearoyl-2-oleoyl glycerol.

22. The method according to any one of claims 11 to 21 wherein the lipase variant is SEQ ID No. 5.

23. The method according to any one of claims 11 to 22 wherein water is provided as an aqueous buffer.

24. The method according to any of claims 11 to 23 wherein the lipase variant is immobilized on a resin.

25. The method according to any of claims 11 to 24 wherein the first ester and the reactant are in a liquid phase or a solution phase under the suitable reaction conditions.

26. The method according to any of claims 11 to 25 wherein the reactant is the second ester, and the reaction product is a transesterification product of the first ester and the second ester.