CLAIMS

What is claimed is:

1. A transgenic rainbow shark comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the rainbow shark comprises a rainbow shark transformation event selecting from the group consisting of:

Orange rainbow shark 1 transformation event, wherein the sperm comprising the Orange rainbow shark 1 transformation event is deposited at the ECACC as “Orange rainbow shark 1”; Purple rainbow shark 1 transformation event, wherein the sperm comprising the Purple rainbow shark 1 transformation event is deposited at the ECACC as “Purple rainbow shark 1”; Blue rainbow shark 1 transformation event, wherein the sperm comprising the Blue rainbow shark 1 transformation event is deposited at the ECACC as “Blue rainbow shark 1”; and Green rainbow shark 1 transformation event, wherein the sperm comprising the Green rainbow shark 1 transformation event is deposited at the ECACC as “Green rainbow shark 1”.

2. The transgenic rainbow shark according to claim 1, wherein, the transgenic rainbow shark comprises the “Orange rainbow shark 1 transformation event”, wherein the transgenic rainbow shark comprises an orange fluorescence, wherein the orange color is visually distinguishable from non-transgenic fish.

3. The transgenic rainbow shark according to claim 1, wherein, the transgenic rainbow shark comprises the “Purple rainbow shark 1 transformation event”, wherein the transgenic rainbow shark comprises a purple fluorescence, wherein the purple color is visually distinguishable from non-transgenic fish.

4. The transgenic rainbow shark according to claim 1, wherein, the transgenic rainbow shark comprises the “Blue rainbow shark 1 transformation event”, wherein the transgenic rainbow shark comprises a blue fluorescence, wherein the blue color is visually distinguishable from non-transgenic fish.

5. The transgenic rainbow shark according to claim 1, wherein, the transgenic rainbow shark comprises the “Green rainbow shark 1 transformation event”, wherein the transgenic rainbow shark comprises a green fluorescence, wherein the green color is visually distinguishable from non-transgenic fish.

6. The transgenic rainbow shark according to any of the claims 1-5, wherein the transgenic rainbow shark is a fertile, transgenic rainbow shark.

7. The transgenic rainbow shark according to any of the claims 1-5, wherein the transgenic rainbow shark is homozygous for the integrated expression cassette.

8. The transgenic rainbow shark according to any of the claims 1-5, wherein the transgenic rainbow shark is heterozygous for the integrated expression cassette.

9. A method of providing transgenic rainbow sharks to the ornamental fish market, comprising obtaining a plurality of the transgenic rainbow sharks according to any of the claims 1-5, and distributing the transgenic rainbow sharks to the ornamental fish market.

10. The method of claim 9, wherein the transgenic rainbow sharks are distributed by a grower to a commercial distributor.

11. The method of claim 9, wherein the fish are distributed by a grower or a commercial distributor to a retailer.

12. The method of claim 9, wherein the retailer is a multi-product retailer having an ornamental fish department.

13. A method of producing a transgenic rainbow shark comprising:

(a) obtaining the transgenic rainbow shark according to any of the claims 1-5; and

(b) breeding the rainbow shark obtained in (a) with a second rainbow shark to provide a transgenic rainbow shark comprising the same rainbow shark transformation event of the transgenic rainbow shark obtained in (a).

14. The method of claim 13, wherein the second rainbow shark is a non-transgenic rainbow shark.

15. A progeny of the transgenic rainbow shark according to any of the claims 1-5, wherein the progeny comprises the same rainbow shark transformation event as the transgenic rainbow shark.