CLAIMS

What is claimed is:

1. A transgenic Angelfish whose genome comprises a chromosomally integrated expression cassette encoding a green fluorescent protein, wherein the transgenic Angelfish comprises the "Green Angelfish 1 transformation event", germ stem cells comprising the “Green Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127787, wherein the transgenic Angelfish exhibits fluorescence.

2. The transgenic Angelfish of claim 1, wherein the transgenic Angelfish is homozygous for the integrated expression cassette.

3. The transgenic Angelfish of claim 1, wherein the transgenic Angelfish is heterozygous for the integrated expression cassette.

4. A method of providing a transgenic Angelfish to the ornamental fish market, comprising obtaining a transgenic Angelfish of claim 1, and distributing the fish to the ornamental fish market.

5. A method of producing a transgenic Angelfish comprising:

(a) obtaining an Angelfish that comprises a chromosomally integrated expression cassette encoding a green fluorescent protein, wherein the Angelfish comprises the "Green Angelfish 1 transformation event", germ stem cells comprising the “Green Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127787; and

(b) breeding the obtained Angelfish with a second Angelfish to provide a transgenic Angelfish comprising the “Green Angelfish 1 transformation event”, wherein the transgenic Angelfish exhibits fluorescence.

6. The method of claim 5, wherein the second Angelfish is a non-transgenic Angelfish.

7. A progeny of a transgenic Angelfish of claim 1 that comprises a chromosomally integrated expression cassette encoding a green fluorescent protein, wherein the Angelfish and progeny exhibit fluorescence and comprise the "Green Angelfish 1 transformation event," cryopreserved adult germ stem cells comprising the “Green Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127787.

8. A transgenic Angelfish whose genome comprises a chromosomally integrated expression cassette encoding a purple fluorescent protein, wherein the transgenic Angelfish comprises the "Purple Angelfish 1 transformation event", germ stem cells comprising the “Purple Angelfish 1

transformation event” having been deposited as ATCC accession no. PTA-127786, wherein the transgenic Angelfish exhibits fluorescence.

9. The transgenic Angelfish of claim 8, wherein the transgenic Angelfish is homozygous for the integrated expression cassette.

10. The transgenic Angelfish of claim 8, wherein the transgenic Angelfish is heterozygous for the integrated expression cassette.

11. A method of providing a transgenic Angelfish to the ornamental fish market, comprising obtaining a transgenic Angelfish of claim 8, and distributing the fish to the ornamental fish market.

12. A method of producing a transgenic Angelfish comprising:

(a) obtaining an Angelfish that comprises a chromosomally integrated expression cassette encoding a purple fluorescent protein, wherein the Angelfish comprises the "Purple Angelfish 1 transformation event", germ stem cells comprising the “Purple Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127786; and

(b) breeding the obtained Angelfish with a second Angelfish to provide a transgenic Angelfish comprising the “Purple Angelfish 1 transformation event”, wherein the transgenic Angelfish exhibits fluorescence.

13. The method of claim 12, wherein the second Angelfish is a non-transgenic Angelfish.

14. A progeny of a transgenic Angelfish of claim 8 that comprises a chromosomally integrated expression cassette encoding a purple fluorescent protein, wherein the Angelfish and progeny exhibit fluorescence and comprise the "Purple Angelfish 1 transformation event," cryopreserved adult germ stem cells comprising the “Purple Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127786.

15. A transgenic Angelfish whose genome comprises a chromosomally integrated expression cassette encoding a red fluorescent protein, wherein the transgenic Angelfish comprises the "Red Angelfish 1 transformation event", germ stem cells comprising the “Red Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127785, wherein the transgenic Angelfish exhibits fluorescence.

16. The transgenic Angelfish of claim 15, wherein the transgenic Angelfish is homozygous for the integrated expression cassette.

17. The transgenic Angelfish of claim 15, wherein the transgenic Angelfish is heterozygous for the integrated expression cassette.

18. A method of providing a transgenic Angelfish to the ornamental fish market, comprising obtaining a transgenic Angelfish of claim 15, and distributing the fish to the ornamental fish market.

19. A method of producing a transgenic Angelfish comprising:

(a) obtaining an Angelfish that comprises a chromosomally integrated expression cassette encoding a red fluorescent protein, wherein the Angelfish comprises the "Red Angelfish 1 transformation event", germ stem cells comprising the “Red Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127785; and

(b) breeding the obtained Angelfish with a second Angelfish to provide a transgenic Angelfish comprising the “Red Angelfish 1 transformation event”, wherein the transgenic Angelfish exhibits fluorescence.

20. The method of claim 19, wherein the second Angelfish is a non-transgenic Angelfish.

21. A progeny of a transgenic Angelfish of claim 15 that comprises a chromosomally integrated expression cassette encoding a red fluorescent protein, wherein the Angelfish and progeny exhibit fluorescence and comprise the "Red Angelfish 1 transformation event," cryopreserved adult germ stem cells comprising the “Red Angelfish 1 transformation event” having been deposited as ATCC accession no. PTA-127785.