

What is claimed is:

1. A transgenic Cory comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises the “Red Cory 1 transformation event”, “Orange Cory 1 transformation event”, or the “Green Cory 1 transformation event”.

2. The transgenic Cory of claim 1, further defined as a fertile, transgenic Cory cryopreserved adult germ stem cells comprising at least one of the Red Cory 1 transformation event having been deposited as ATCC accession no. PTA-127094, the Orange Cory 1 transformation event having been deposited as ATCC accession no. PTA-127095, the Green Cory 1 transformation event having been deposited as ATCC accession no. PTA-127096.

3. The transgenic Cory of claim 1, wherein the fish is homozygous for the integrated expression cassette.

4. The transgenic Cory of claim 1, wherein the fish is heterozygous for the integrated expression cassette.

5. A method of providing a transgenic Cory to the ornamental fish market, comprising obtaining a transgenic Cory in accordance with claim 1, and distributing the fish to the ornamental fish market.

6. The method of claim 5, wherein the fish are distributed by a grower to a commercial distributor.

7. The method of claim 5, wherein the fish are distributed by a grower or a commercial distributor to a retailer.

8. The method of claim 7, wherein the retailer is a multi-product retailer having an ornamental fish department.

9. A method of producing a transgenic Cory comprising:

(a) obtaining a Cory that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises at least one of: the “Red Cory 1

transformation event”, “Orange Cory 1 transformation event”, or the “Green Cory 1 transformation event”; and

(b) breeding the obtained Cory with a second Cory to provide a transgenic Cory comprising the Red Cory 1 transformation event, Orange Cory 1 transformation event, or the Green Cory 1 transformation event.

10. The method of claim 9, wherein the second Cory is a non-transgenic Cory.

11. A progeny of a transgenic Cory of claim 1 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory and progeny exhibit fluorescence and comprise at least one of the “Red Cory 1 transformation event,” cryopreserved adult germ stem cells comprising the Red Cory 1 transformation event having been deposited as ATCC accession no. PTA-127094, the Orange Cory 1 transformation event cryopreserved adult germ stem cells comprising the Orange Cory 1 transformation event having been deposited as ATCC accession no. PTA-127095, the Green Cory 1 transformation event cryopreserved adult germ stem cells comprising the Green Cory 1 transformation event having been deposited as ATCC accession no. PTA-127096.

12. The progeny fish of claim 11, further defined as a fertile, transgenic Cory.

13. The progeny fish of claim 11, wherein the fish is homozygous for the integrated expression cassette.

14. The progeny fish of claim 11, wherein the fish is heterozygous for the integrated expression cassette.

15. A method of providing a transgenic fish to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 11, and distributing the fish to the ornamental fish market.

16. The method of claim 15, wherein the fish are distributed by a grower to a commercial distributor or the fish are distributed by a grower or a commercial distributor to a retailer.

~~17. The method of claim 16, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~18.~~17. The method of claim ~~17~~16, wherein the retailer is a multi-product retailer having an ornamental fish department.

~~19~~18. A method of producing a transgenic fish comprising:

(a) obtaining a transgenic fish in accordance with claim 11; and

(b) breeding the obtained fish with a second fish to provide a transgenic fish comprising the Red Cory 1 transformation event.

~~20~~19. The method of claim ~~19~~18, wherein the second fish is a non-transgenic fish.

~~21. A transgenic Cory comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises the "Orange Cory 1 transformation event".~~

~~22. The transgenic Cory of claim 21, further defined as a fertile, transgenic Cory, cryopreserved adult germ stem cells comprising the Orange Cory 1 transformation event having been deposited as ATCC accession no. PTA-127095.~~

~~23. The transgenic Cory of claim 21, wherein the fish is homozygous for the integrated expression cassette.~~

~~24. The transgenic Cory of claim 21, wherein the fish is heterozygous for the integrated expression cassette.~~

~~25. A method of providing a transgenic Cory to the ornamental fish market, comprising obtaining a transgenic Cory in accordance with claim 21, and distributing the fish to the ornamental fish market.~~

~~26. The method of claim 25, wherein the fish are distributed by a grower to a commercial distributor.~~

~~27. — The method of claim 25, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~28. — The method of claim 27, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~29. — A method of producing a transgenic Cory comprising:~~

~~(a) obtaining a Cory that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises the “Orange Cory 1 transformation event,”; and~~

~~(b) breeding the obtained Cory with a second Cory to provide a transgenic Cory comprising the Orange Cory 1 transformation event.~~

~~30. — The method of claim 29, wherein the second Cory is a non-transgenic Cory.~~

~~31. — A progeny of a transgenic Cory of claim 21 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory and progeny exhibit fluorescence and comprise the “Orange Cory 1 transformation event,” cryopreserved adult germ stem cells comprising the Orange Cory 1 transformation event having been deposited as ATCC accession no. PTA-127095.~~

~~32. — The progeny fish of claim 31, further defined as a fertile, transgenic Cory.~~

~~33. — The progeny fish of claim 31, wherein the fish is homozygous for the integrated expression cassette.~~

~~34. — The progeny fish of claim 31, wherein the fish is heterozygous for the integrated expression cassette.~~

~~35. — A method of providing a transgenic fish to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 31, and distributing the fish to the ornamental fish market.~~

~~36. — The method of claim 35, wherein the fish are distributed by a grower to a commercial distributor.~~

~~37. — The method of claim 36, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~38. — The method of claim 37, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~39. — A method of producing a transgenic fish comprising:
(a) obtaining a transgenic fish in accordance with claim 31; and
(b) breeding the obtained fish with a second fish to provide a transgenic fish comprising the Orange Cory 1 transformation event.~~

~~40. — The method of claim 39, wherein the second fish is a non-transgenic fish.~~

~~41. — A transgenic Cory comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises the “Green Cory 1 transformation event”.~~

~~42. — The transgenic Cory of claim 41, further defined as a fertile, transgenic Cory, cryopreserved adult germ stem cells comprising the Green Cory 1 transformation event having been deposited as ATCC accession no. PTA-127096.~~

~~43. — The transgenic Cory of claim 1, wherein the fish is homozygous for the integrated expression cassette.~~

~~44. — The transgenic Cory of claim 41, wherein the fish is heterozygous for the integrated expression cassette.~~

~~45. — A method of providing a transgenic Cory to the ornamental fish market, comprising obtaining a transgenic Cory in accordance with claim 1, and distributing the fish to the ornamental fish market.~~

~~46. — The method of claim 45, wherein the fish are distributed by a grower to a commercial distributor.~~

~~47. — The method of claim 45, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~48. — The method of claim 47, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~49. — A method of producing a transgenic Cory comprising:~~

~~(a) obtaining a Cory that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory comprises the “Green Cory 1 transformation event,” cryopreserved adult germ stem cells comprising the Green Cory 1 transformation event having been deposited as ATCC accession no. PTA-127096; and~~

~~(b) breeding the obtained Cory with a second Cory to provide a transgenic Cory comprising the Green Cory 1 transformation event.~~

~~50. — The method of claim 49, wherein the second Cory is a non-transgenic Cory.~~

~~51. — A progeny of a transgenic Cory of claim 41 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Cory and progeny exhibit fluorescence and comprise the “Green Cory 1 transformation event,” cryopreserved adult germ stem cells comprising the Green Cory 1 transformation event having been deposited as ATCC accession no. PTA-127096.~~

~~52. — The progeny fish of claim 51, further defined as a fertile, transgenic Cory.~~

~~53. — The progeny fish of claim 51, wherein the fish is homozygous for the integrated expression cassette.~~

~~54. — The progeny fish of claim 51, wherein the fish is heterozygous for the integrated expression cassette.~~

~~55. — A method of providing a transgenic fish to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 51, and distributing the fish to the ornamental fish market.~~

~~56. — The method of claim 55, wherein the fish are distributed by a grower to a commercial distributor.~~

~~57. — The method of claim 56, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~58. — The method of claim 57, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~59. — A method of producing a transgenic fish comprising:
(a) obtaining a transgenic fish in accordance with claim 51; and
(b) breeding the obtained fish with a second fish to provide a transgenic fish comprising the Green Cory 1 transformation event.~~

~~60. — The method of claim 59, wherein the second fish is a non-transgenic fish.~~

~~6120. A transgenic cory comprising a chromosomally integrated expression cassette encoding a green fluorescent protein, and a chromosomally integrated expression cassette encoding orange fluorescent protein.~~

~~62. — The transgenic cory of claim 61, further defined as a fertile, transgenic cory.~~

~~6321. The transgenic cory of claim 6120, further defined as a sterile transgenic Yellow Cory.~~

~~64. — The transgenic cory of claim 61, wherein the fish is homozygous for at least one of the integrated expression cassettes.~~

~~65. — The transgenic cory of claim 61 or claim 64, wherein the fish is heterozygous for at least one of the integrated expression cassettes.~~

~~66. — A method of providing a transgenic cory to the ornamental fish market, comprising obtaining a transgenic cory in accordance with claim 61, and distributing the fish to the ornamental fish market.~~

~~67. — The method of claim 66, wherein the fish are distributed by a grower to a commercial distributor.~~

~~68. — The method of claim 66, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~69. — The method of claim 68, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~7022. A method of producing a transgenic cory comprising:~~

- (a) obtaining a cory that comprises a chromosomally integrated expression cassette encoding a green fluorescent protein and a chromosomally integrated expression cassette encoding orange fluorescent protein; and
- (b) breeding the obtained cory with a second cory.

~~71. — The method of claim 70, wherein the second cory is a non-transgenic cory.~~

~~7223.~~ A progeny of a transgenic cory of claim ~~6120~~ that comprises a chromosomally integrated expression cassette encoding a green fluorescent protein and a chromosomally integrated expression cassette encoding orange fluorescent protein.

~~73. — The progeny fish of claim 72, further defined as a fertile, transgenic cory.~~

~~74. — The progeny fish of claim 72, further defined as a sterile Yellow Cory.~~

~~7524.~~ The progeny fish of claim ~~7223~~, wherein the fish is homozygous for at least one of the GFP or YFP integrated expression cassettes.

~~76. — The progeny fish of claim 72, wherein the fish is heterozygous for the integrated expression cassettes.~~

~~77. — A method of providing a transgenic fish to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 72, and distributing the fish to the ornamental fish market.~~

~~78. — The method of claim 77, wherein the fish are distributed by a grower to a commercial distributor.~~

~~79. — The method of claim 77, wherein the fish are distributed by a grower or a commercial distributor to a retailer.~~

~~80. — The method of claim 79, wherein the retailer is a multi-product retailer having an ornamental fish department.~~

~~81. — A method of producing a transgenic fish comprising:~~

- ~~(a) obtaining a transgenic fish in accordance with claim 72; and~~
- ~~(b) breeding the obtained fish with a second fish to provide a transgenic fish comprising the Yellow cory 1 transformation event transformation event.~~

~~82. — The method of claim 81, wherein the second fish is a non-transgenic fish.~~

~~83. — A transgenic cory comprising a chromosomally integrated expression cassette encoding a green fluorescent protein and a chromosomally integrated expression cassette encoding orange fluorescent protein.~~

~~84. — The transgenic cory of claim 83, further defined as a fertile, transgenic cory.~~

~~85. The transgenic cory of claim 83, further defined as a sterile transgenic Yellow Cory.~~

~~86. The transgenic cory of claim 83, wherein the fish is homozygous for at least one of the integrated expression cassettes.~~

~~87. The transgenic cory of claim 83 or claim 86, wherein the fish is heterozygous for at least one of the integrated expression cassettes.~~