

What is claimed is:

1. A transgenic cell line comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the cell line comprises the “Green Betta 1 transformation event,” cryopreserved testes comprising the Green Betta 1 transformation event having been deposited at ATCC.
2. The transgenic cell line of claim 1, further defined as capable of forming a fertile, transgenic Betta.
3. The transgenic cell line of claim 2, wherein the Betta is homozygous for the integrated expression cassette.
4. The transgenic cell line of claim 2, wherein the Betta is heterozygous for the integrated expression cassette.
5. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a transgenic Betta in accordance with claim 2, and distributing the fish to the ornamental fish market.
6. The method of claim 5, wherein the Betta are distributed by a grower to a commercial distributor.
7. The method of claim 5, wherein the Betta 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 Betta comprising:
 - (a) obtaining a Betta that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta comprises the “Green Betta 1 transformation event,” cryopreserved testes comprising the Green Betta 1 transformation event having been deposited at ATCC; and
 - (b) breeding the obtained Betta with a second Betta to provide a transgenic Betta comprising the Green Betta 1 transformation event.
10. The method of claim 9, wherein the second Betta is a non-transgenic Betta.
11. A progeny of a transgenic Betta of claim 2 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein,

wherein the Betta and progeny exhibit fluorescence and comprise the “Green Betta 1 transformation event,” cryopreserved testes comprising the Green Betta 1 transformation event having been deposited at ATCC.

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

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

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

15. A method of providing a transgenic Betta 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 Betta are distributed by a grower to a commercial distributor.

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

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

19. A method of producing a transgenic fish comprising:

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

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

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

21. A transgenic cell line comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the cell line comprises the “Orange Betta 1 transformation event,” cryopreserved testes comprising the Orange Betta 1 transformation event having been deposited at ATCC.

22. The transgenic cell line of claim 21, further defined as capable of forming a fertile, transgenic Betta.

23. The transgenic cell line of claim 22, wherein the Betta is homozygous for the integrated expression cassette.

24. The transgenic cell line of claim 22, wherein the Betta is heterozygous for the integrated expression cassette.

25. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a transgenic Betta in accordance with claim 22, and distributing the fish to the ornamental fish market.

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

27. The method of claim 25, wherein the Betta 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 Betta comprising:

(a) obtaining a Betta that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta comprises the “Orange Betta 1 transformation event,” cryopreserved testes comprising the Orange Betta 1 transformation event having been deposited at ATCC; and

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

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

31. A progeny of a transgenic Betta of claim 22 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta and progeny exhibit fluorescence and comprise the “Orange Betta 1 transformation event,” cryopreserved testes comprising the Orange Betta 1 transformation event having been deposited at ATCC.

32. The progeny fish of claim 31, further defined as capable of forming a fertile, transgenic Betta.

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

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

35. A method of providing a transgenic Betta to the ornamental fish

market, comprising obtaining a progeny Betta in accordance with claim 31, and distributing the fish to the ornamental fish market.

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

37. The method of claim 36, wherein the Betta 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 Betta in accordance with claim 31; and
- (b) breeding the obtained Betta with a second Betta to provide a transgenic fish comprising the Orange Betta 1 transformation event.

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

41. A transgenic cell line comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the cell line comprises the “Red Betta 1 transformation event,” cryopreserved testes comprising the Red Betta 1 transformation event having been deposited at ATCC.

42. The transgenic cell line of claim 41, further defined as capable of forming a fertile, transgenic Betta.

43. The transgenic cell line of claim 41, wherein the Betta is homozygous for the integrated expression cassette.

44. The transgenic cell line of claim 41, wherein the Betta is heterozygous for the integrated expression cassette.

45. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a transgenic Betta in accordance with claim 42, and distributing the fish to the ornamental fish market.

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

47. The method of claim 45, wherein the Betta 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 Betta comprising:

(a) obtaining a Betta that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta comprises the “Red Betta 1 transformation event,” cryopreserved testes comprising the Red Betta 1 transformation event having been deposited at ATCC; and

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

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

51. A progeny of a transgenic Betta of claim 42 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta and progeny exhibit fluorescence and comprise the “Red Betta 1 transformation event,” cryopreserved testes comprising the Red Betta 1 transformation event having been deposited at ATCC.

52. The progeny cell line of claim 51, further defined as a fertile, transgenic Betta.

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

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

55. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 52 and distributing the fish to the ornamental fish market.

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

57. The method of claim 56, wherein the Betta 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 Betta comprising:

(a) obtaining a transgenic Betta in accordance with claim 51; and
(b) breeding the obtained Betta with a second Betta to provide a transgenic fish comprising the Red Betta 1 transformation event.

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

61. A transgenic cell line comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the cell line comprises the “Purple Betta 1 transformation event,” cryopreserved testes comprising the Purple Betta 1 transformation event having been deposited at ATCC.

62. The transgenic cell line of claim 61, further defined as capable of forming a fertile, transgenic Betta.

63. The transgenic cell line of claim 61, wherein the Betta is homozygous for the integrated expression cassette.

64. The transgenic cell line of claim 61, wherein the Betta is heterozygous for the integrated expression cassette.

65. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a transgenic Betta in accordance with claim 62, and distributing the Betta to the ornamental fish market.

66. The method of claim 65, wherein the Betta are distributed by a grower to a commercial distributor.

67. The method of claim 65, wherein the Betta are distributed by a grower or a commercial distributor to a retailer.

68. The method of claim 67, wherein the retailer is a multi-product retailer having an ornamental fish department.

69. A method of producing a transgenic Betta comprising:

(a) obtaining a Betta that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta comprises the “Purple Betta 1 transformation event,” cryopreserved testes comprising the Purple Betta 1 transformation event having been deposited at ATCC; and

(b) breeding the obtained Betta with a second Betta to provide a transgenic Betta comprising the Purple Betta 1 transformation event.

70. The method of claim 69, wherein the second Betta is a non-transgenic

Betta.

71. A progeny of a transgenic Betta of claim 62 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta and progeny exhibit fluorescence and comprise the “Purple Betta 1 transformation event,” cryopreserved testes comprising the Purple Betta 1 transformation event having been deposited at ATCC.

72. The progeny fish of claim 71, further defined as a fertile, transgenic Betta.

73. The progeny fish of claim 71, wherein the Betta is homozygous for the integrated expression cassette.

74. The progeny fish of claim 71, wherein the Betta is heterozygous for the integrated expression cassette.

75. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 71, and distributing the fish to the ornamental fish market.

76. The method of claim 75, wherein the Betta are distributed by a grower to a commercial distributor.

77. The method of claim 76, wherein the Betta are distributed by a grower or a commercial distributor to a retailer.

78. The method of claim 77, wherein the retailer is a multi-product retailer having an ornamental fish department.

79. A method of producing a transgenic Betta comprising:
(a) obtaining a transgenic Betta in accordance with claim 71; and
(b) breeding the obtained Betta with a second Betta to provide a transgenic fish comprising the Purple Betta 1 transformation event.

80. The method of claim 79, wherein the second Betta is a non-transgenic fish.

81. A transgenic cell line comprising a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the cell line comprises the “Blue Betta 1 transformation event,” cryopreserved testes comprising the Blue Betta 1 transformation event having been deposited at ATCC.

82. The transgenic cell line of claim 81, further defined as capable of forming a fertile, transgenic Betta.

83. The transgenic cell line of claim 81, wherein the fish is homozygous for the integrated expression cassette.

84. The transgenic cell line of claim 81, wherein the fish is heterozygous for the integrated expression cassette.

85. A method of providing a transgenic Betta to the ornamental fish market, comprising obtaining a transgenic Betta in accordance with claim 82, and distributing the fish to the ornamental fish market.

86. The method of claim 85, wherein the Betta are distributed by a grower to a commercial distributor.

87. The method of claim 85, wherein the Betta are distributed by a grower or a commercial distributor to a retailer.

88. The method of claim 87, wherein the retailer is a multi-product retailer having an ornamental fish department.

89. A method of producing a transgenic Betta comprising:

(a) obtaining a Betta that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta comprises the “Blue Betta 1 transformation event,” cryopreserved testes comprising the Blue Betta 1 transformation event having been deposited at ATCC; and

(b) breeding the obtained Betta with a second Betta to provide a transgenic Betta comprising the Blue Betta 1 transformation event.

90. The method of claim 89, wherein the second Betta is a non-transgenic Betta.

91. A progeny of a transgenic Betta of claim 82 that comprises a chromosomally integrated expression cassette encoding a fluorescent protein, wherein the Betta and progeny exhibit fluorescence and comprise the “Blue Betta 1 transformation event,” cryopreserved testes comprising the Blue Betta 1 transformation event having been deposited at ATCC.

92. The progeny fish of claim 91, further defined as a fertile, transgenic Betta.

93. The progeny fish of claim 91, wherein the fish is homozygous for the integrated expression cassette.

94. The progeny fish of claim 91, wherein the fish is heterozygous for the integrated expression cassette.

95. A method of providing a transgenic fish to the ornamental fish market, comprising obtaining a progeny fish in accordance with claim 91, and distributing the fish to the ornamental fish market.

96. The method of claim 95, wherein the fish are distributed by a grower to a commercial distributor.

97. The method of claim 96, wherein the fish are distributed by a grower or a commercial distributor to a retailer.

98. The method of claim 97, wherein the retailer is a multi-product retailer having an ornamental fish department.

99. A method of producing a transgenic fish comprising:

(a) obtaining a transgenic fish in accordance with claim 91; and

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

100. The method of claim 99, wherein the second fish is a non-transgenic fish.