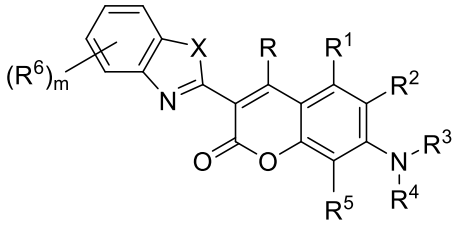
WHAT IS CLAIMED IS:

1. A nucleotide or oligonucleotide labeled with a compound of Formula (I), a salt or a mesomeric form thereof:



(I)

wherein:

X is O;

each of R^1, R^2 and R^5 is H;

R is H;

each R^3 and R^4 is C_{1-6} alkyl;

each R^6 is independently $-CO_2R^f$, halo, -CN, amino, -OH, C-amido, N-amido, $-NO_2$, $-SO_3H$, $-SO_2NR^aR^b$, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted aminoalkyl, optionally substituted carbocyclyl, optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted heteroaryl;

each R^a and R^b is independently H or optionally substituted C_{1-6} alkyl;

R^f is optionally substituted C_{1-6} alkyl, optionally substituted carbocyclyl, optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted heteroaryl; and

m is 1, 2, 3, or 4; wherein the compound of Formula (I) is not a compound in which R, R^1, R^2, and R^5 is H; m is 1; R^6 is CO_2H; and R^3 and R^4 is ethyl; and

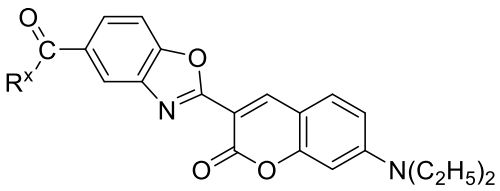
wherein the compound is attached to the nucleotide or oligonucleotide via R^6 of Formula (I).

2. The labeled nucleotide or oligonucleotide of claim 1, wherein each R^6 is $-CO_2H$, halo, -CN, $-SO_3H$, $-SO_2NR^aR^b$, or optionally substituted C_{1-6} alkyl.

3. The labeled nucleotide or oligonucleotide according to any one of claims 1 to 2, wherein the compound is attached to the nucleotide or oligonucleotide via R^3 or R^6 of Formula (I).

4. The labeled nucleotide or oligonucleotide of claim 3, wherein R^6 of Formula (I) is $-CO_2H$ and the attachment forms an amide using the $–CO_2H$ group.

5. A nucleotide or oligonucleotide labeled with a compound of Formula (I-A):



(I-A), or a salt, a mesomeric form thereof,

wherein R^X is $–OR^c$ or $–NR^dR^e$;

each of R^c, R^d, and R^e is independently H, optionally substituted C_{1-6} alkyl, optionally substituted carbocyclyl, optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted heteroaryl, wherein the compound of Formula (I-A) is attached to the nucleotide or oligonucleotide via R^x.

6. The labeled nucleotide or oligonucleotide of any one of claims 1 to 5, wherein the compound is attached to the C5 position of a pyrimidine base or the C7 position of a 7-deaza purine base through a linker moiety.

7. The labeled nucleotide or oligonucleotide according to any one of claims 1 to 6, further comprising a 3' OH blocking group covalently attached to the ribose or deoxyribose sugar of the nucleotide.

8. A kit comprising a first labeled nucleotide according to any one of claims 1 to 7 and a second labeled nucleotide.

9. The kit of claim 8, wherein the second labeled nucleotide is labeled with a different compound than the first labeled nucleotide and optionally, wherein the first and second labeled nucleotides are excitable using a single laser wavelength.

10. The kit of claim 9, further comprising a third nucleotide and a fourth nucleotide, wherein each of the second, third, and fourth nucleotides is labeled with a different compound, wherein each label has a distinct absorbance maximum that is distinguishable from the other labels.

11. The kit of claim 8, wherein the kit comprises four nucleotides, wherein a first of the four nucleotides is a labeled nucleotide according to any one of claims 1 to 7, a second of the four nucleotides carries a second label, and:

a third nucleotide carries a third label, and a fourth nucleotide is unlabeled (dark) or

a third nucleotide carries a mixture of two labels, and a fourth nucleotide is unlabeled (dark).

12. Use of a labeled nucleotide or oligonucleotide according to claims 1 to 7, or a kit according to any one of claims 8 to 11 in sequencing, expression analysis, hybridization analysis, genetic analysis, RNA analysis, or a protein binding assay.

13. The use according to claim 12 on an automated sequencing instrument, wherein said automated sequencing instrument comprises two lasers operating at different wavelengths.

14. A method of sequencing comprising incorporating a labeled nucleotide according to any one of claims 1 to 7 in a sequencing assay.

15. The method of claim 14, further comprising detecting the labeled nucleotide, or

wherein the sequencing assay is performed on an automated sequencing instrument, and wherein the automated sequencing instrument comprises two light sources operating at different wavelengths.