CLAIMS

What is claimed is:

1. A compound, comprising a modified oligonucleotide consisting of 10 to 30 linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous nucleobases of any of the nucleobase sequences of SEQ ID NOs: 5-310, 321-802, 804-1272, or 1288-1350, 1364-1372, 1375, 1376, and 1379.

2. A compound, comprising a modified oligonucleotide consisting of 10 to 30 linked nucleosides, wherein said modified oligonucleotide is complementary to SEQ ID NO: 1

3. The compound of claim 1 or 2, wherein said modified oligonucleotide is at least 96% complementary to SEQ ID NO: 1.

4. The compound of claim 1 or 2, wherein said modified oligonucleotide is at least 97% complementary to SEQ ID NO: 1.

5. The compound of claim 1 or 2, wherein said modified oligonucleotide is at least 98% complementary to SEQ ID NO: 1.

6. The compound of claim 1 or 2, wherein said modified oligonucleotide is at least 99% complementary to SEQ ID NO: 1.

7. The compound of claim 1 or 2, wherein said modified oligonucleotide is 100% complementary to SEQ ID NO: 1.

8. The compound of claim 1 or 2, consisting of a single-stranded modified oligonucleotide.

9. The compound of claim 1 or 2, wherein at least one internucleoside linkage is a modified internucleoside linkage.

10. The compound of claim 9, wherein each internucleoside linkage is a phosphorothioate internucleoside linkage.

11. The compound of claim 1 or 2, wherein at least one nucleoside of the modified oligonucleotide comprises a modified sugar.

12. The compound of claim 11, wherein the at least one modified sugar is a bicyclic sugar.

13. The compound of claim 11, wherein at least one modified sugar comprises a 2'-O-methoxyethyl group.

14. The compound of claim 11, wherein the modified sugar comprises a 2'-$O(CH_2)_2$-OCH_3 group.

15. The compound of claim 11, wherein the modified sugar comprises a 4'-$CH(CH_3)$-O-2' group.

16. The compound of claim 1 or 2, wherein at least one nucleoside comprises a modified nucleobase.

17. The compound of claim 16, wherein the modified nucleobase is a 5-methylcytosine.

18. The compound of claim 1 or 2, wherein the modified oligonucleotide comprises:

a gap segment consisting of linked deoxynucleosides;

a 5' wing segment consisting of linked nucleosides; and

a 3' wing segment consisting of linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

19. The compound of claim 18, wherein the gap segment consists of 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or 16 linked nucleosides.

20. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of 2-3 linked nucleosides; and

a 3' wing segment consisting of 3-4 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar or a constrained ethyl sugar; and wherein each internucleoside linkage is a phosphorothioate linkage.

21. The compound of claim 20, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of 3 linked nucleosides; and

a 3' wing segment consisting of 3 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar or a constrained ethyl sugar; and wherein each internucleoside linkage is a phosphorothioate linkage.

22. The compound of claim 21, wherein each of the 3 linked nucleosides of the 5' wing segment comprises a 2'-O-methoxyethyl sugar and each of the 3 linked nucleosides of the 3' wing segment comprises a constrained ethyl sugar.

23. The compound of claim 21, wherein the 3 linked nucleosides of the 5' wing segment comprise a 2'-O-methoxyethyl sugar, a constrained ethyl sugar, and a constrained ethyl sugar in the 5' to 3' direction, and the 3 linked nucleosides of the 3' wing segment comprise a constrained ethyl sugar, a constrained ethyl sugar, and a 2'-O-methoxyethyl sugar in the 5' to 3' direction.

24. The compound of claim 20, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of 2 linked nucleosides; and

a 3' wing segment consisting of 4 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar or a constrained ethyl sugar; and wherein each internucleoside linkage is a phosphorothioate linkage.

25. The compound of claim 24, wherein the 2 linked nucleosides of the 5' wing segment comprise a 2'-O-methoxyethyl sugar and a constrained ethyl sugar in the 5' to 3' direction, and the 4 linked nucleosides of

the 3' wing segment comprise a constrained ethyl sugar, a 2'-O-methoxyethyl sugar, a constrained ethyl sugar, and a 2'-O-methoxyethyl sugar in the 5' to 3' direction.

26. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of five linked nucleosides; and

a 3' wing segment consisting of five linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

27. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of four linked nucleosides; and

a 3' wing segment consisting of four linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

28. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of three linked nucleosides; and

a 3' wing segment consisting of three linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

29. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of two linked nucleosides; and

a 3' wing segment consisting of two linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

30. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of three linked nucleosides; and

a 3' wing segment consisting of four linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein each nucleoside of each wing segment comprises a modified sugar.

31. The compound of claim 18, wherein the modified oligonucleotide comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of 1-5 linked nucleosides; and

a 3' wing segment consisting of 1-5 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar; and wherein each internucleoside linkage is a phosphorothioate linkage.

32. The compound of claim 1 or 2, wherein the modified oligonucleotide consists of 20 linked nucleosides.

33. The compound of claim 1 or 2, wherein the modified oligonucleotide consists of 16 linked nucleosides.

34. The compound of claim 1 or 2, wherein said modified oligonucleotide consists of 15 to 30 linked nucleosides.

35. The compound of claim 1 or 2, wherein said modified oligonucleotide consists of 18 to 22 linked nucleosides.

36. The compound of claim 1 or 2, wherein said modified oligonucleotide consists of 20 to 30 linked nucleosides.

37. A compound comprising a modified oligonucleotide consisting of 10 to 30 linked nucleosides complementary within nucleotides 1-20, 10-29, 10-56, 13-38, 13-35, 19-38, 25-47, 25-50, 25-56, 43-68, 43-63, 55-74, 58-73, 58-74, 58-77, 58-79, 58-80, 58-84, 59-74, 59-75, 59-80, 60-75, 60-76, 60-79, 61-76, 61-77, 61-80, 62-77, 63-84, 68-114, 101-123, 98-123, 113-138, 116-138, 131-150, 137-162, 152-186, 158-177, 167-186, 191-215, 196-224, 196-215, 196-218, 199-228, 199-218, 199-224, 200-224, 205-224, 206-228, 218-237, 224-243, 233-264, 242-263, 243-262, 244-263, 245-274; 245-260, 245-264, 246-266, 247-266, 247-269, 247-270, 245-267, 251-267, 245-266, 250-269, 251-266, 251-268, 251-269, 245-269, 245-266, 245-261, 250-265, 250-266, 250-267, 250-268, 250-269, 251-270, 252-267, 253-268, 253-269, 253-272, 253-274, 254-269, 254-270, 254-274, 255-270, 255-271, 255-274, 255-401, 255-400, 255-274, 255-273, 255-272, 255-271, 256-271, 256-275, 255-276, 256-272, 256-276, 253-275, 256-279, 257-276, 258-273, 259-274, 260-279, 262-281, 262-321, 262-315, 262-312, 265-312, 266-288, 266-291, 266-285, 281-321, 281-303, 290-321, 290-312, 292-311, 290-312, 293-312, 293-315, 293-321, 296-321, 302-321, 324-343, 339-361, 339-367, 348-367, 342-367, 358-392, 358-378, 360-392, 360-383, 360-388, 360-385, 362-381, 366-388, 369-388, 366-385, 366-392, 370-389, 370-392, 380-399, 382-401, 384-433, 384-400, 384-401, 385-401, 405-424, 409-428, 405-428, 411-426, 411-427, 411-430, 411-431, 411-437, 412-431, 411-426, 411-427, 412-428, 412-431, 412-427, 413-433, 413-432, 413-428, 413-429, 413-432, 413-433, 414-427, 415-427, 414-429, 414-430, 414-433, 415-428, 415-429, 415-430, 415-431, 415-434, 416-431, 416-432, 416-429, 416-435, 417-432, 417-433, 417-436, 418-433, 418-435, 418-434, 418-437, 419-435, 419-434, 420-435, 419-432, 419-434, 421-436, 422-437, 422-441, 423-436, 425-465, 454-473, 454-472, 457-476, 457-472, 457-473, 454-476, 455-472, 457-485, 458-485, 458-483, 458-477, 458-473, 459-485, 460-485, 463-498, 463-485, 466-485, 463-482, 457-491, 458-491, 459-491, 460-491, 463-491, 466-491, 472-491, 472-493, 473-492, 475-491, 459-494, 460-494, 463-494, 466-494, 467-498, 472-494, 475-494, 457-473, 457-472, 458-494, 454-494, 457-494, 457-473, 485-513, 470-493, 476-519, 485-519, 500-519, 512-534, 512-550, 524-546, 536-559, 548-567, 548-570, 550-570, 548-594, 554-573, 548-576, 560-594, 584-606, 611-645, 617-363, 623-642, 617-645, 639-754, 639-658, 639-654, 641-656, 642-657, 643-658, 642-754, 653-672, 662-685, 665-685,665-689, 668-687, 670-754, 670-706, 670-685, 670-686, 670-689, 671-690, 671-691, 671-686, 671-687, 672-693, 672-697, 672-707, 672-687, 672-688, 673-688, 674-693, 678-693, 679-694, 679-707, 679-698, 679-701, 679-702, 679-707, 680-695, 680-699, 679-699, 681-706, 681-696, 682-697, 682-706, 682-707, 682-702, 682-701, 683-698, 684-699, 685-700, 686-701, 687-754, 688-704, 689-709, 689-710, 690-705, 679-705, 679-710, 679-706, 690-710, 691-710, 690-754, 690-706, 684-703, 687-705, 687-702, 687-703, 687-706, 688-703, 688-704, 688-705, 689-704, 689-705, 689-708, 690-705, 690-706, 690-709, 691-706, 692-711, 693-716, 693-712, 695-715, 697-716, 697-716, 690-716, 724-746, 724-752, 724-754, 724-758, 733-752, 738-754, 738-753, 739-758, 739-754, 739-775, 739-754, 740-754, 742-785, 742-773, 757-776, 757-785, 790-815, 793-812, 811-833, 811-844, 814-833, 811-906,

820-839, 822-844, 822-867, 823-842, 845-864, 845-867, 854-906, 845-909, 845-906, 854-876, 863-882, 863-885, 878-900, 887-906, 899-918, 899-933, 899-958, 905-927, 905-933, 914-933, 936-958, 936-955, 945-964, 951-970, 951-985, 951-1044, 951-1024, 951-1056, 951-997, 960-985, 963-1044, 963-1024, 963-997, 972-1015, 1025-1044, 1031-1056, 1037-1056, 1046-1083, 1049-1068, 1070-1089, 1070-1095, 1082-1101, 1081-1134, 1081-1143, 1082-1101, 1088-1107, 1088-1134, 1094-1119, 1097-1119, 1112-1134, 1118-1143, 1118-1146, 1088-1146, 1121-1140, 1127-1146, 1127-1193, 1150-1193, 1156-1187, 1165-1187, 1170-1192, 1171-1191, 1172-1191, 1176-1192, 1176-1285, 1177-1192, 1176-1191, 1203-1297, 1206-1228, 1206-1255, 1209-1228, 1215-1255, 1245-1265, 1251-1280, 1262-1285, 1251-1285, 1259-1296, 1259-1290, 1259-1287, 1261-1296, 1261-1285, 1261-1276, 1261-1277, 1261-1280, 1262-1296, 1262-1277, 1262-1278, 1262-1281, 1263-1278, 1263-1279, 1263-1282, 1264-1279, 1264-1280, 1264-1283, 1264-1297, 1265-1280, 1265-1281, 1265-1284, 1266-1281, 1266-1282, 1266-1285, 1267-1282, 1267-1283, 1268-1285, 1268-1284, 1268-1296, 1269-1284, 1269-1285, 1269-1288, 1270-1285, 1271-1290, 1271-1296, 1277-1296, 1261-1290, 1262-1290, 1268-1290, 1263-1305, 1259-1305, 1259-1305, 1266-1305, 1259-1302, 1276-1294, 1281-1306, 1281-1324, 1281-1336, 1282-1301, 1286-1306, 1290-1324, 1293-1318, 1290-1324, 1293-1315, 1296-1315, 1311-1336, 1311-1333, 1326-1345, 1353-1381, 1359-1378, 1395-1414, 1498-1538, 1498-1523, 1498-1535, 1510-1529, 1515-1535, 1515-1563, 1515-1596, 1515-1605, 1515-1602, 1515-1540, 1515-1535, 1518-1605, 1518-1602, 1518-1537, 1521-1563, 1521-1540, 1550-1655, 1550-1563, 1550-1569, 1553-1578, 1553-1599, 1553-1590, 1565-1584, 1571-1595, 1577-1605, 1577-1606, 1577-1592, 1577-1593, 1577-1596, 1578-1593, 1578-1594, 1578-1597, 1578-1598, 1571-1598, 1579-1594, 1579-1594, 1579-1598, 1580-1595, 1580-1596, 1580-1599, 1580-1605, 1580-1602, 1581-1596, 1581-1597, 1581-1600, 1582-1597, 1582-1598, 1582-1601, 1582-1602, 1553-1655, 1583-1598, 1583-1599, 1583-1602, 1584-1599, 1584-1600, 1584-1603, 1585-1600, 1585-1601, 1585-1604, 1586-1601, 1586-1602, 1586-1605, 1587-1602, 1587-1603, 1587-1606, 1588-1603, 1588-1604, 1589-1604, 1589-1605, 1590-1605, 1590-1606, 1591-1606, 1586-1652, 1642-1664, 1651-1720, 1651-1673, 1655-1679, 1695-1720, 1716-1738, 1743-1763, 1743-1768, 1764-1783, 1773-1792, 1777-1796, 1777-1800, 1778-1800, 1778-1793, 1778-1794, 1778-1797, 1779-1798, 1779-1797, 1779-1796, 1779-1795, 1779-1794, 1780-1799, 1780-1796, 1780-1795, 1781-1797, 1781-1796, 1781-1796, 1781-1800, 1781-1797, 1782-1799, 1782-1797, 1782-1798, 1783-1798, 1783-1799, 1784-1800, 1784-1799, 1779-1799, 1778-1889, 1778-1794, 1779-1795, 1780-1799, 1785-1800, 1794-1813, 1806-1837, 1806-1828, 1806-1825, 1809-1828, 1812-1843, 1812-1837, 1812-1831, 1815-1843, 1815-1844, 1815-1840, 1815-1834, 1818-1837, 1821-1840, 1821-1844, 1821-1837, 1822-1843, 1822-1839, 1822-1837, 1823-1843, 1823-1838, 1824-1839, 1827-1846, 1861-1884, 1861-1880, 1865-1885, 1866-1881, 1867-1882, 1867-1886, 1868-1883, 1869-1885, 1869-1884, 1870-1885, 1871-1886, 1872-1887, 1874-1889, 1876-1895, 1888-1914, 1888-1908, 1891-1910, 1891-1914, 1895-1938, 1895-1935, 1913-1935, 1898-1920, 1907-1929, 1913-1935, 1918-1934, 1919-1938, 1919-1934, 1921-1934, 1928-1956, 1957-

1976, 2035-2057, 2083-2141, 2230-2261, 2368-2393, 2381-2397, 2368-2394, 2379-2394, 2381-2396, 2368-2397, 2368-2396, 2420-2439, 2458-2476, 2459-2478, 2819-2838, 2818-2838, 2873-2892, or 3161-3182 of SEQ ID NO: 1, wherein said modified oligonucleotide is at least 90% complementary to SEQ ID NO: 1.

38. A compound comprising a modified oligonucleotide consisting of 10 to 30 linked nucleosides having a nucleobase sequence comprising a portion of at least 8 contiguous nucleobases 100% complementary to an equal length portion of nucleobases 1-20, 10-29, 10-56, 13-38, 13-35, 19-38, 25-47, 25-50, 25-56, 43-68, 43-63, 55-74, 58-73, 58-74, 58-77, 58-79, 58-80, 58-84, 59-74, 59-75, 59-80, 60-75, 60-76, 60-79, 61-76, 61-77, 61-80, 62-77, 63-84, 68-114, 101-123, 98-123, 113-138, 116-138, 131-150, 137-162, 152-186, 158-177, 167-186, 191-215, 196-224, 196-215, 196-218, 199-228, 199-218, 199-224, 200-224, 205-224, 206-228, 218-237, 224-243, 233-264, 242-263, 243-262, 244-263, 245-274; 245-260, 245-264, 246-266, 247-266, 247-269, 247-270, 245-267, 251-267, 245-266, 250-269, 251-266, 251-268, 251-269, 245-269, 245-266, 245-261, 250-265, 250-266, 250-267, 250-268, 250-269, 251-270, 252-267, 253-268, 253-269, 253-272, 253-274, 254-269, 254-270, 254-274, 255-270, 255-271, 255-274, 255-401, 255-400, 255-274, 255-273, 255-272, 255-271, 256-271, 256-275, 255-276, 256-272, 256-276, 253-275, 256-279, 257-276, 258-273, 259-274, 260-279, 262-281, 262-321, 262-315, 262-312, 265-312, 266-288, 266-291, 266-285, 281-321, 281-303, 290-321, 290-312, 292-311, 290-312, 293-312, 293-315, 293-321, 296-321, 302-321, 324-343, 339-361, 339-367, 348-367, 343-367, 358-392, 358-378, 360-392, 360-383, 360-388, 360-385, 362-381, 366-388, 369-388, 366-385, 366-392, 370-389, 370-392, 380-399, 382-401, 384-433, 384-400, 384-401, 385-401, 405-424, 409-428, 405-428, 411-426, 411-427, 411-430, 411-431, 411-437, 412-431, 411-426, 411-427, 412-428, 412-431, 412-427, 413-433, 413-432, 413-428, 413-429, 413-432, 413-433, 414-427, 415-427, 414-429, 414-430, 414-433, 415-428, 415-429, 415-430, 415-431, 415-434, 416-431, 416-432, 416-429, 416-435, 417-432, 417-433, 417-436, 418-433, 418-435, 418-434, 418-437, 419-435, 419-434, 420-435, 419-432, 419-434, 421-436, 422-437, 422-441, 423-436, 425-465, 454-473, 454-472, 457-476, 457-472, 457-473, 454-476, 455-472, 457-485, 458-485, 458-483, 458-477, 458-473, 459-485, 460-485, 463-498, 463-485, 466-485, 463-482, 457-491, 458-491, 459-491, 460-491, 463-491, 466-491, 472-491, 472-493, 473-492, 475-491, 459-494, 460-494, 463-494, 466-494, 467-498, 472-494, 475-494, 457-473, 457-472, 458-494, 454-494, 457-494, 457-473, 485-513, 470-493, 476-519, 485-519, 500-519, 512-534, 512-550, 524-546, 536-559, 548-567, 548-570, 550-570, 548-594, 554-573, 548-576, 560-594, 584-606, 611-645, 617-363, 623-642, 617-645, 639-754, 639-658, 639-654, 641-656, 642-657, 643-658, 642-754, 653-672, 662-685, 665-685,665-689, 668-687, 670-754, 670-706, 670-685, 670-686, 670-689, 671-690, 671-691, 671-686, 671-687, 672-693, 672-697, 672-707, 672-687, 672-688, 673-688, 674-693, 678-693, 679-694, 679-707, 679-698, 679-701, 679-702, 679-707, 680-695, 680-699, 679-699, 681-706, 681-696, 682-697, 682-706, 682-707, 682-702, 682-701, 683-698, 684-699, 685-700, 686-701,

687-754, 688-704, 689-709, 689-710, 690-705, 679-705, 679-710, 679-706, 690-710, 691-710, 690-754, 690-706, 684-703, 687-705, 687-702, 687-703, 687-706, 688-703, 688-704, 688-705, 689-704, 689-705, 689-708, 690-705, 690-706, 690-709, 691-706, 692-711, 693-716, 693-712, 695-715, 697-716, 697-716, 690-716, 724-746, 724-752, 724-754, 724-758, 733-752, 738-754, 738-753, 739-758, 739-754, 739-775, 739-754, 740-754, 742-785, 742-773, 757-776, 757-785, 790-815, 793-812, 811-833, 811-844, 814-833, 811-906, 820-839, 822-844, 822-867, 823-842, 845-864, 845-867, 854-906, 845-909, 845-906, 854-876, 863-882, 863-885, 878-900, 887-906, 899-918, 899-933, 899-958, 905-927, 905-933, 914-933, 936-958, 936-955, 945-964, 951-970, 951-985, 951-1044, 951-1024, 951-1056, 951-997, 960-985, 963-1044, 963-1024, 963-997, 972-1015, 1025-1044, 1031-1056, 1037-1056, 1046-1083, 1049-1068, 1070-1089, 1070-1095, 1082-1101, 1081-1134, 1081-1143, 1082-1101, 1088-1107, 1088-1134, 1094-1119, 1097-1119, 1112-1134, 1118-1143, 1118-1146, 1088-1146, 1121-1140, 1127-1146, 1127-1193, 1150-1193, 1156-1187, 1165-1187, 1170-1192, 1171-1191, 1172-1191, 1176-1192, 1176-1285, 1177-1192, 1176-1191, 1203-1297, 1206-1228, 1206-1255, 1209-1228, 1215-1255, 1245-1265, 1251-1280, 1262-1285, 1251-1285, 1259-1296, 1259-1290, 1259-1287, 1261-1296, 1261-1285, 1261-1276, 1261-1277, 1261-1280, 1262-1296, 1262-1277, 1262-1278, 1262-1281, 1263-1278, 1263-1279, 1263-1282, 1264-1279, 1264-1280, 1264-1283, 1264-1297, 1265-1280, 1265-1281, 1265-1284, 1266-1281, 1266-1282, 1266-1285, 1267-1282, 1267-1283, 1268-1283, 1268-1284, 1268-1296, 1269-1284, 1269-1285, 1269-1288, 1270-1285, 1271-1290, 1271-1296, 1277-1296, 1261-1290, 1262-1290, 1268-1290, 1263-1305, 1259-1305, 1259-1305, 1266-1305, 1259-1302, 1275-1294, 1281-1306, 1281-1324, 1281-1336, 1282-1301, 1286-1306, 1290-1324, 1293-1318, 1290-1324, 1293-1315, 1296-1315, 1311-1336, 1311-1333, 1326-1345, 1353-1381, 1359-1378, 1395-1414, 1498-1532, 1498-1523, 1498-1535, 1510-1529, 1515-1535, 1515-1563, 1515-1596, 1515-1605, 1515-1602, 1515-1540, 1515-1535, 1518-1605, 1518-1602, 1518-1537, 1521-1563, 1521-1540, 1550-1655, 1550-1563, 1550-1569, 1553-1578, 1553-1599, 1553-1590, 1565-1584, 1571-1595, 1577-1605, 1577-1606, 1577-1592, 1577-1593, 1577-1596, 1578-1593, 1578-1594, 1578-1597, 1578-1598, 1571-1598, 1579-1594, 1579-1594, 1579-1598, 1580-1595, 1580-1596, 1580-1599, 1580-1605, 1580-1602, 1581-1596, 1581-1597, 1581-1600, 1582-1597, 1582-1598, 1582-1601, 1582-1602, 1553-1655, 1583-1598, 1583-1599, 1583-1602, 1584-1599, 1584-1600, 1584-1603, 1585-1600, 1585-1601, 1585-1604, 1586-1601, 1586-1602, 1586-1605, 1587-1602, 1587-1603, 1587-1606, 1588-1603, 1588-1604, 1589-1604, 1589-1605, 1590-1605, 1590-1606, 1591-1606, 1586-1652, 1642-1664, 1651-1720, 1651-1673, 1655-1679, 1695-1720, 1716-1738, 1743-1763, 1743-1768, 1764-1783, 1773-1792, 1777-1796, 1777-1800, 1778-1800, 1778-1793, 1778-1794, 1778-1797, 1779-1798, 1779-1797, 1779-1796, 1779-1795, 1779-1794, 1780-1799, 1780-1796, 1780-1795, 1781-1797, 1781-1796, 1781-1796, 1781-1800, 1781-1797, 1782-1799, 1782-1797, 1782-1798, 1783-1798, 1783-1799, 1784-1800, 1784-1799, 1779-1799, 1778-1889, 1778-1794, 1779-1795, 1780-1799, 1785-1800, 1794-1813, 1806-1837, 1806-1828, 1806-1825, 1809-1828, 1812-1843, 1812-1837, 1812-1831, 1815-1843,

1815-1844, 1815-1840, 1815-1834, 1818-1837, 1821-1840, 1821-1844, 1821-1837, 1822-1843, 1822-1839, 1822-1837, 1823-1843, 1823-1838, 1824-1839, 1827-1846, 1861-1884, 1861-1880, 1865-1885, 1866-1881, 1867-1882, 1867-1886, 1868-1883, 1869-1885, 1869-1884, 1870-1885, 1871-1886, 1872-1887, 1874-1889, 1876-1895, 1888-1914, 1888-1908, 1891-1910, 1891-1914, 1895-1938, 1895-1935, 1913-1935, 1898-1920, 1907-1929, 1913-1935, 1918-1934, 1919-1938, 1919-1934, 1921-1934, 1928-1956, 1957-1976, 2035-2057, 2083-2141, 2230-2261, 2368-2393, 2381-2397, 2368-2394, 2379-2394, 2381-2396, 2368-2397, 2368-2396, 2420-2439, 2458-2476, 2459-2478, 2819-2838, 2818-2838, 2873-2892, or 3161-3182, wherein the nucleobase sequence of the modified oligonucleotide is complementary to SEQ ID NO: 1.

39. The compound of claim 36, wherein at least one nucleoside of the modified oligonucleotide comprises at least one 2'-O-methoxyethyl sugar or constrained ethyl sugar.

40. A compound, comprising a modified oligonucleotide consisting of 10 to 30 linked nucleosides and having a nucleobase sequence comprising at least 8 contiguous nucleobases of any of the nucleobase sequences of SEQ ID NOs: 1, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1287, 1352, 1353, 1354, 1359, 1360, 1361, 1362, and 1363.

41. A composition comprising the compound of any of claims 1-40 or salt thereof and at least one of a pharmaceutically acceptable carrier or diluent.

42. A method comprising administering to an animal the compound or composition of any of claims 1-41.

43. The method of claim 42, wherein the animal is a human.

44. The method of claim 43, wherein administering the compound prevents, treats, ameliorates, or slows progression of a HBV-related disease, disorder or condition.

45. The method of claim 44, wherein the disease, disorder or condition is liver disease.

46. The method of claim 44, wherein the disease, disorder or condition is jaundice, liver inflammation, liver fibrosis, inflammation, liver cirrhosis, liver failure, diffuse hepatocellular inflammatory disease, hemophagocytic syndrome, serum hepatitis, HBV viremia, or liver disease–related transplantation.

47. The method of claim 44, wherein the disease or condition is a hyperproliferative condition.

48. The method of claim 47, wherein the hyperproliferative condition is liver cancer.

49. A method of reducing antigen levels in an animal comprising administering to said animal the compound or composition of any of claims 1-41.

50. The method of claim 49, wherein HBsAG levels are reduced.

51. The method of claim 49, wherein HBeAG levels are reduced.

52. The method of claim 49, wherein the animal is human.

53. The method of claim 49, comprising co-administering the compound or composition and a second agent.

54. The method of claim 53, wherein the compound or composition and the second agent are administered concomitantly.

CLAIMS

1. A compound, comprising a single-stranded modified oligonucleotide, wherein the single-stranded modified oligonucleotide consists of 20 linked nucleosides having the nucleobase sequence of SEQ ID NO: 226 and comprises:

a gap segment consisting of ten linked deoxynucleosides;

a 5' wing segment consisting of 5 linked nucleosides; and

a 3' wing segment consisting of 5 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment, wherein each nucleoside of each wing segment comprises a 2'-O-methoxyethyl sugar, wherein each internucleoside linkage is a phosphorothioate linkage, and wherein each cytosine is a 5-methylcytosine.

2. The compound of claim 1, wherein the compound consists of the single-stranded modified oligonucleotide.

3. The compound of claim 1, wherein the compound is a conjugated antisense compound.

4. A composition comprising the compound of any one of claims 1 to 3, or a pharmaceutically acceptable salt thereof, and at least one of a pharmaceutically acceptable carrier or diluent.

5. Use of the compound of any one of claims 1 to 3, or the composition of claim 4, for the manufacture of a medicament for treating a HBV-related disease, disorder or condition in a subject, wherein the disease, disorder or condition is jaundice, liver inflammation, liver fibrosis, inflammation, liver cirrhosis, liver failure, liver cancer, diffuse hepatocellular inflammatory disease, hemophagocytic syndrome, serum hepatitis, HBV viremia, or liver disease–related transplantation.

6. Use of the compound of any one of claims 1 to 3, or the composition of claim 4, for the manufacture of a medicament for reducing HBsAG levels in a subject infected with HBV.