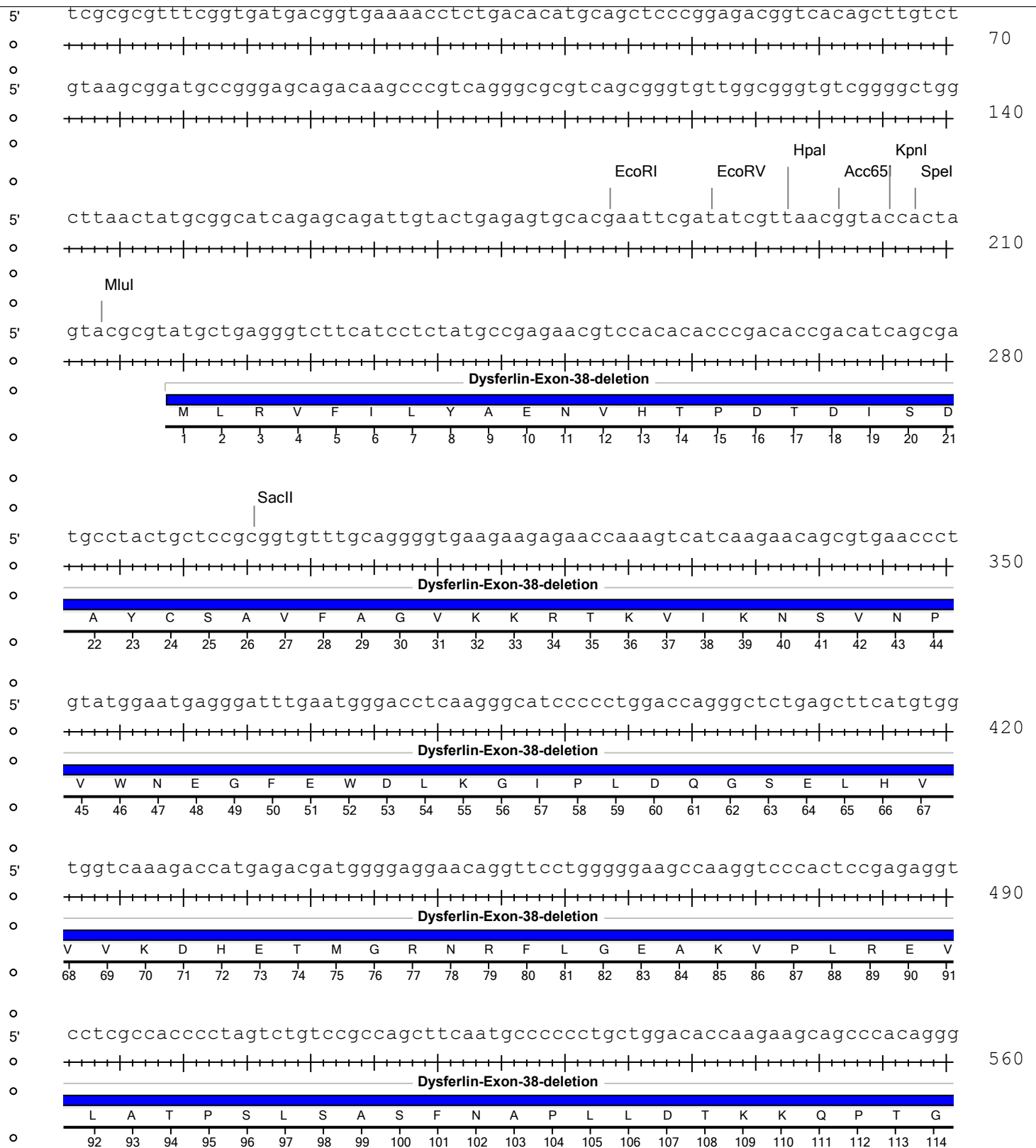
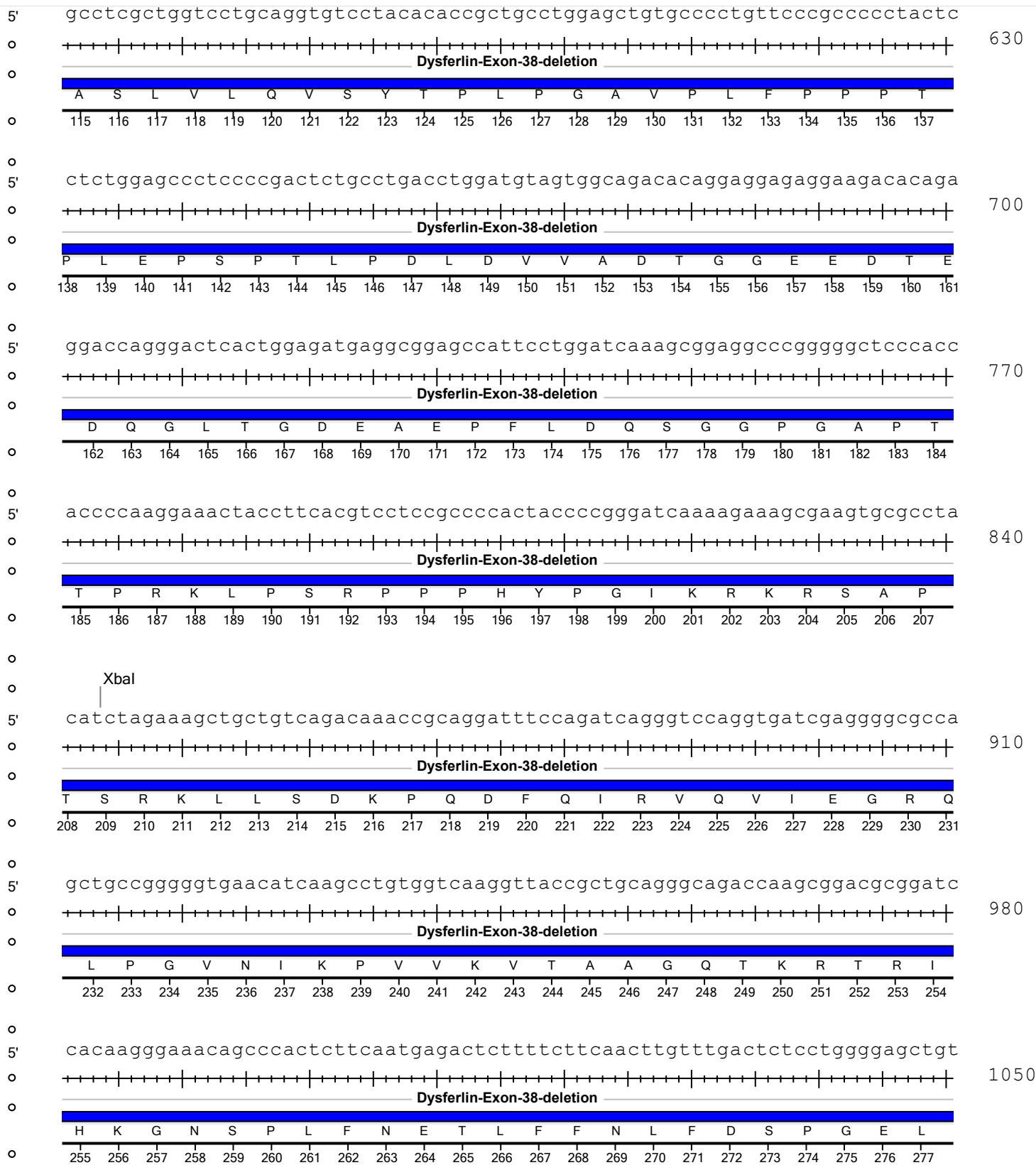


Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' ttgatgagcccatcctttatcacgggtggttagactctcgtttctctcaggacagatgctctcctcggggagtt 1120
o
o **Dysferlin-Exon-38-deletion**
o F D E P I F I T V V D S R S L R T D A L L G E F
o 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301

5' ccgatggacgtgggcaccatttacagagagccccggcagcctatctcaggaagtggctgctgctctca 1190
o
o **Dysferlin-Exon-38-deletion**
o R M D V G T I Y R E P R H A Y L R K W L L L S
o 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324

5' gaccctgatgacttctctgctggggccagaggctacctgaaaacaagcctttgtgtgctggggcctgggg 1260
o
o **Dysferlin-Exon-38-deletion**
o D P D D F S A G A R G Y L K T S L C V L G P G
o 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347

5' acgaagcgcctctggagagaaaagaccctctgaagacaaggaggacattgaaagcaacctgctccggcc 1330
o
o **Dysferlin-Exon-38-deletion**
o D E A P L E R K D P S E D K E D I E S N L L R P
o 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371

5' cacaggcgtagccctgagaggagcccacttctgcctgaaggctctccggggccgaggacttgccgcagatg 1400
o
o **Dysferlin-Exon-38-deletion**
o T G V A L R G A H F C L K V F R A E D L P Q M
o 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394

5' gacgatgccgtgatggacaacgtgaaacagatctttggcttcgagagtaacaagaagaacttggtggacc 1470
o
o **Dysferlin-Exon-38-deletion**
o D D A V M D N V K Q I F G F E S N K K N L V D
o 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417

5' cctttgtggagggtcagctttgcggggaaaatgctgtgcagcaagatcttgagagaagacggccaaccctca 1540
o
o **Dysferlin-Exon-38-deletion**
o P F V E V S F A G K M L C S K I L E K T A N P Q
o 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441

5' gtggaaccagaacatcacactgcctgccatgtttcctccatgtgcgaaaaaatgaggattcgtatcata 1610
o
o **Dysferlin-Exon-38-deletion**
o W N Q N I T L P A M F P S M C E K M R I R I I
o 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464

Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' gactgggaccgctgactcacaatgacatcgctggctaccacctacctgagatgtcgaaaatctctgcc 1680
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 D W D R L T H N D I V A T T Y L S M S K I S A
 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487

ctggaggagaaatagaagaggagcctgcaggtgctgtcaagccttcgaaagcctcagacttggatgacta 1750
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 P G G E I E E E P A G A V K P S K A S D L D D Y
 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511

cctgggcttcctccccacttttgggcccctgctacatcaacctctatggcagtcaccagagagttcacaggc 1820
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 L G F L P T F G P C Y I N L Y G S P R E F T G
 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534

ttcccagaccctacacagagctcaacacaggcaagggggaaggtgtggcttatcgaggccggcttctgc 1890
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 F P D P Y T E L N T G K G E G V A Y R G R L L
 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557

tctccctggagaccaagctgggtggagcacagtgaacagaaggtggaggaccttctctgaggatgacatcct 1960
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 L S L E T K L V E H S E Q K V E D L P A D D I L
 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581

ccgggtggagaagtacctagaggcgcagtaactcctgtttgctgccttctactcagccaccatgctg 2030
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 R V E K Y L R R R K Y S L F A A F Y S A T M L
 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604

caggatgtgatgatgccatccagtttgaggtcagcatcggaactacgggaacaagttcgacatgacct 2100
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o -----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-38-deletion**
 Q D V D D A I Q F E V S I G N Y G N K F D M T
 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627

Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' gcctgccgctggcctccaccactcagtacagccgtgcagtcctttgacgggtgccactactactactacc 2170
o
o
o **Dysferlin-Exon-38-deletion**
o C L P L A S T T Q Y S R A V F D G C H Y Y Y L P
o 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651

5' ctggggtaacgtgaaacctgtggtggtgctgtcatcctactgggaggacatcagccatagaatcgagact 2240
o
o
o **Dysferlin-Exon-38-deletion**
o W G N V K P V V V L S S Y W E D I S H R I E T
o 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674

5' cagaaccagctgcttgggattgctgaccggctggaagctggcctggagcaggtccacctggccctgaagg 2310
o
o
o **Dysferlin-Exon-38-deletion**
o Q N Q L L G I A D R L E A G L E Q V H L A L K
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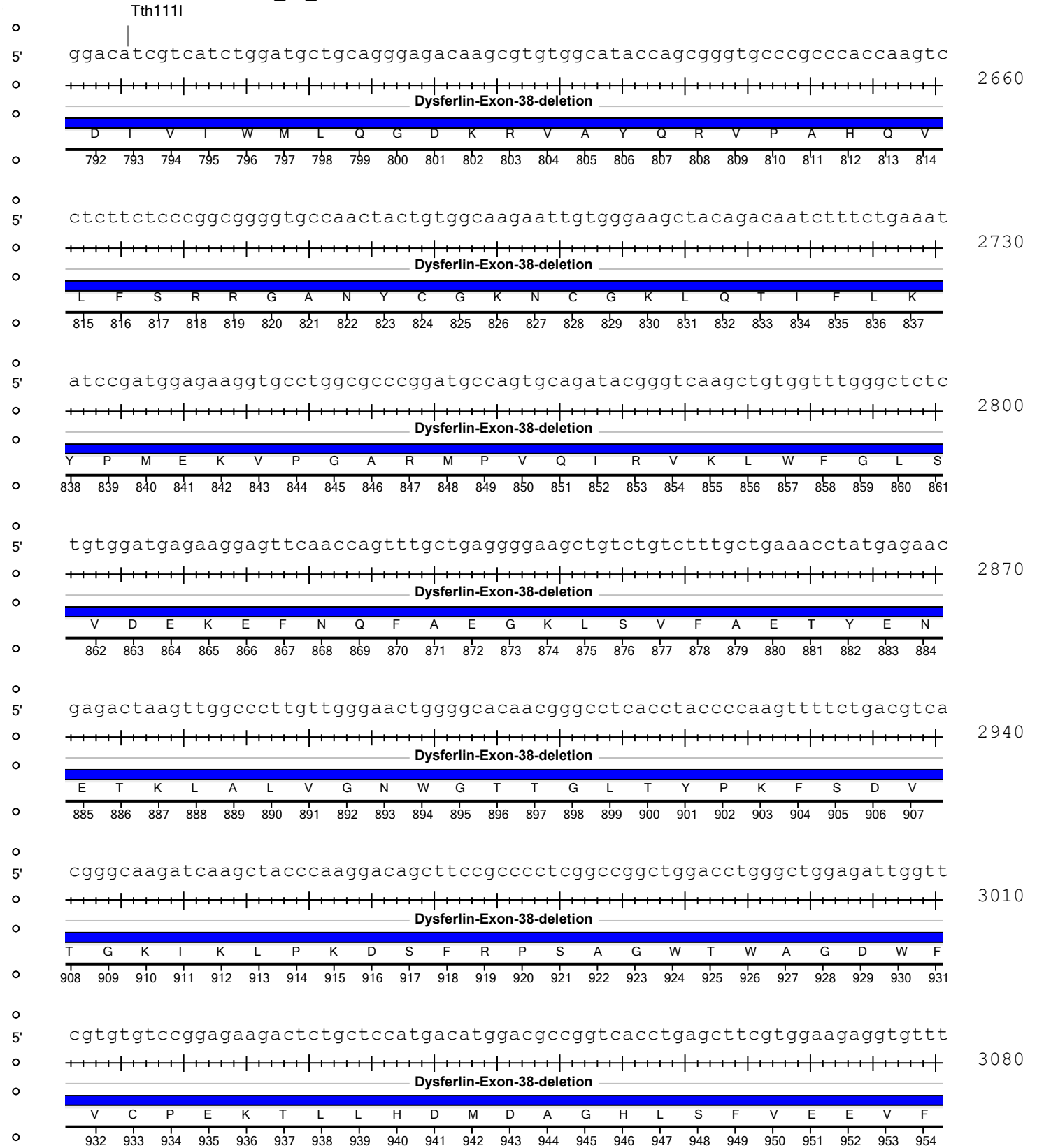
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o
o **Dysferlin-Exon-38-deletion**
o A Q C S T E D V D S L V A Q L T D E L I A G C S
o 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721

5' ccagcctctgggtgacatccatgagacacctctgccacccacctggaccagtacctgtaccagctgcdc 2450
o
o
o **Dysferlin-Exon-38-deletion**
o Q P L G D I H E T P S A T H L D Q Y L Y Q L R
o 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744

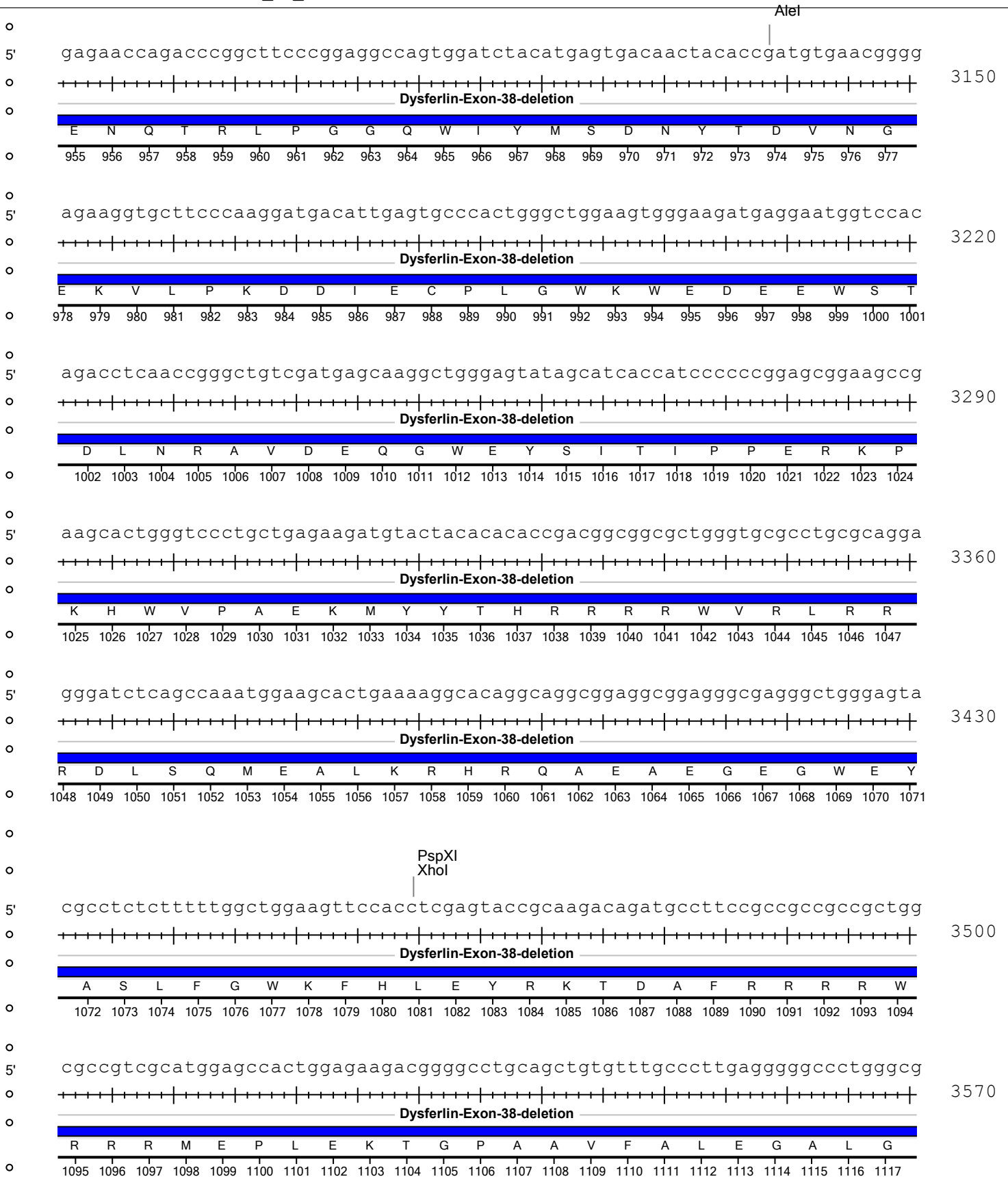
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o
o
o **Dysferlin-Exon-38-deletion**
o T H H L S Q I T E A A L A L K L G H S E L P A
o 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767

5' ctctggagcaggcggaggactggctcctgcgtctgcgtgccctggcagaggagccccagaacagcctgcc 2590
o
o
o **Dysferlin-Exon-38-deletion**
o A L E Q A E D W L L R L R A L A E E P Q N S L P
o 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791

Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' gcgatgatggatgacaagagtggaagattccatgtccgtctccaccttgagcttcgggtgtgaacagaccac 3640
o
o **Dysferlin-Exon-38-deletion**
G V M D D K S E D S M S V S T L S F G V N R P T
o 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141

5' gatttctgcatattcgactatgggaaccgctaccatctacgctgctacatgtaccaggcccgggacctg 3710
o
o **Dysferlin-Exon-38-deletion**
I S C I F D Y G N R Y H L R C Y M Y Q A R D L
o 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164

5' gctgcatggacaaggactcttttctgatccctatgccatcgtctccttctcctgcaccagagccagaaga 3780
o
o **Dysferlin-Exon-38-deletion**
A A M D K D S F S D P Y A I V S F L H Q S Q K
o 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187

5' cggtgggtggtgaagaacacccttaaccccacctgggaccagacgctcatcttctacgagatcgagatctt 3850
o
o **Dysferlin-Exon-38-deletion**
T V V V K N T L N P T W D Q T L I F Y E I E I F
o 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211

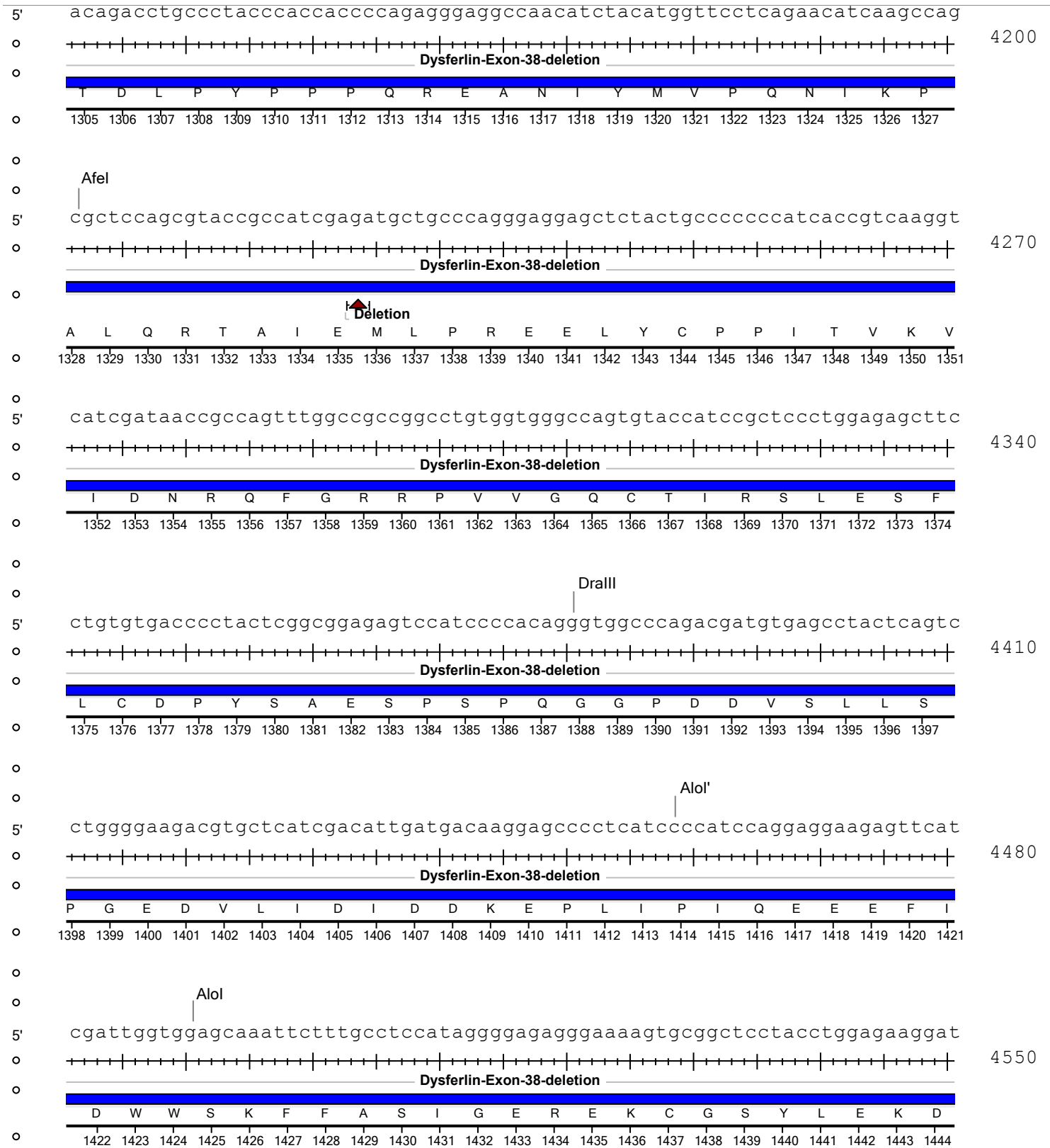
5' tggcagccggccacagttgctgagcaaccgcccagcattgtggtggagctgtacgaccatgacacttat 3920
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o **Dysferlin-Exon-38-deletion**
G E P A T V A E Q P P S I V V E L Y D H D T Y
o 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234

5' ggtgcagacgagtttatgggtcgtgcatctgtcaaccgagctctggaacggatgccacggctggcctggt 3990
o
o **Dysferlin-Exon-38-deletion**
G A D E F M G R C I C Q P S L E R M P R L A W
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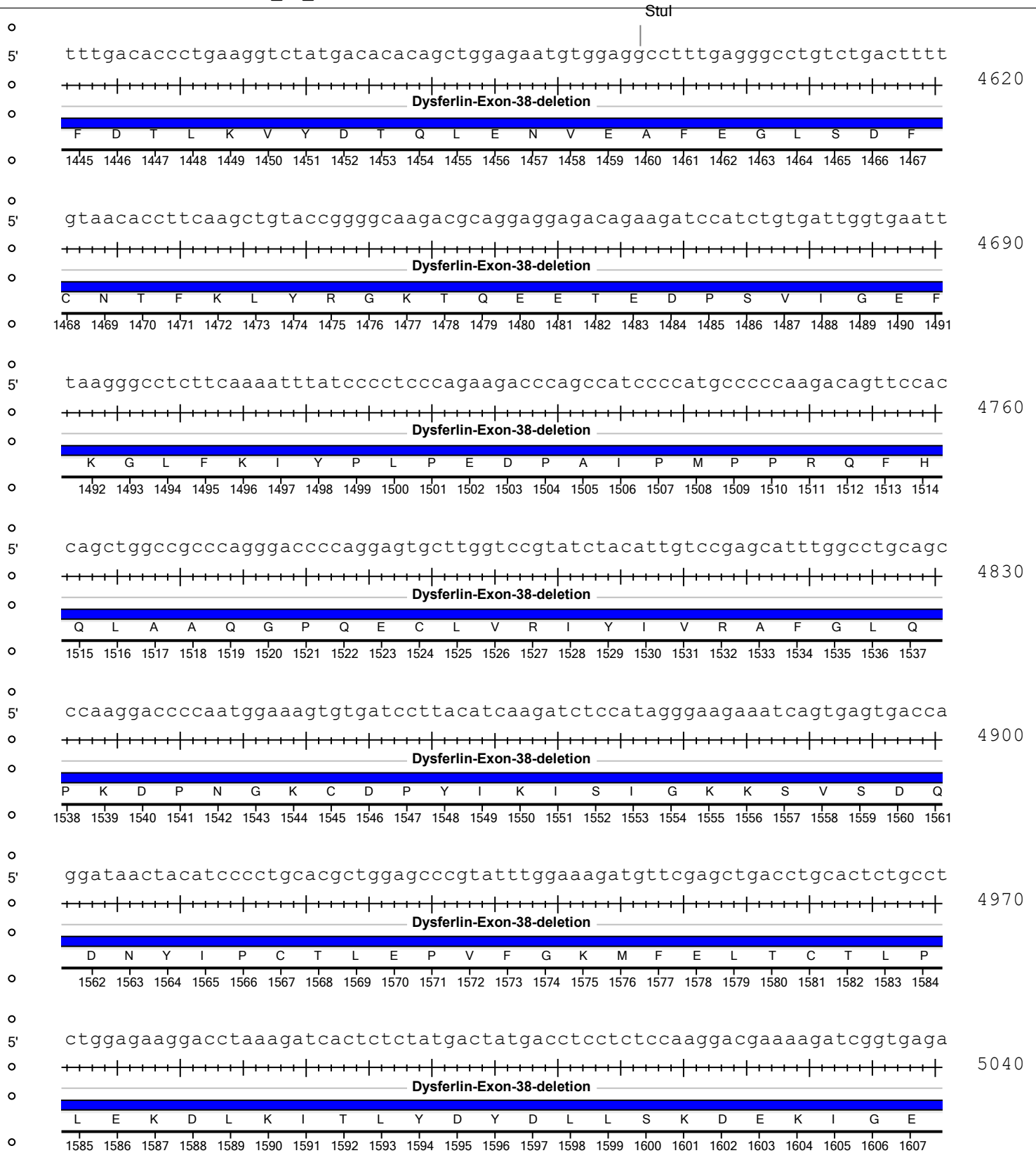
5' tcccactgacgaggggagccagccgctcgggggagctgctggcctcttttgagctcatccagagagagaa 4060
o
o **Dysferlin-Exon-38-deletion**
F P L T R G S Q P S G E L L A S F E L I Q R E K
o 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281

5' gccggccatccaccatattcctggttttgaggtgcaggagacatcaaggatcctggatgagtctgaggac 4130
o
o **Dysferlin-Exon-38-deletion**
P A I H H I P G F E V Q E T S R I L D E S E D
o 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304

Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' cggtcgctcgacctggagaacaggctgctgtccaagtttggggctcgctgtggactcccacagacctactg 5110
o
o
o **Dysferlin-Exon-38-deletion**
o T V V D L E N R L L S K F G A R C G L P Q T Y C
o 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631

5' tgtctctggaccgaaccagtggcgggaccagctccgccctcccagctcctccacctcttctgccagcag 5180
o
o
o **Dysferlin-Exon-38-deletion**
o V S G P N Q W R D Q L R P S Q L L H L F C Q Q
o 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654

5' catagagtcaaggcacctgtgtaccggacagaccgtgtaatgtttcaggataaagaatattccattgaag 5250
o
o
o **Dysferlin-Exon-38-deletion**
o H R V K A P V Y R T D R V M F Q D K E Y S I E
o 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677

5' agatagaggctggcaggatcccaaaccacacctgggcccagtgaggagcgtctggctctgcatgtgct 5320
o
o
o **Dysferlin-Exon-38-deletion**
o E I E A G R I P N P H L G P V E E R L A L H V L
o 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701

5' tcagcagcagggcctgggtcccggagcacgtggagtcacggcccctctacagccccctgcagccagacatc 5390
o
o
o **Dysferlin-Exon-38-deletion**
o Q Q Q G L V P E H V E S R P L Y S P L Q P D I
o 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724

5' gagcaggggaagctgcagatgtgggtcgacctatttccgaaggccctggggcggcctggacctcccttca 5460
o
o
o **Dysferlin-Exon-38-deletion**
o E Q G K L Q M W V D L F P K A L G R P G P P F
o 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747

5' acatcaccacggagagccagaaggtttttccctgcggtgtattatctggaataccagagatgtgatcct 5530
o
o
o **Dysferlin-Exon-38-deletion**
o N I T P R R A R R F F L R C I I W N T R D V I L
o 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771

Dysferlin-Exon-38-deletion_in_pUC57-Kan

5' ggatgacctgagcctcacgggggagaagatgagcgacattttatgtgaaagggttgatgattggctttgaa 5600
o
o
o **Dysferlin-Exon-38-deletion**
o D D L S L T G E K M S D I Y V K G W M I G F E
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5' gaacacaagcaaaagacagacgtgcattatcgttccctgggaggtgaaggcaacttcaactggaggttca 5670
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o
o **Dysferlin-Exon-38-deletion**
o E H K Q K T D V H Y R S L G G E G N F N W R F
o 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817

o
o
o BsrDI
5' ttttcccccttcgactacctgccagctgagcaagtctgtaccattgccaagaaggatgccttctggaggct 5740
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o **Dysferlin-Exon-38-deletion**
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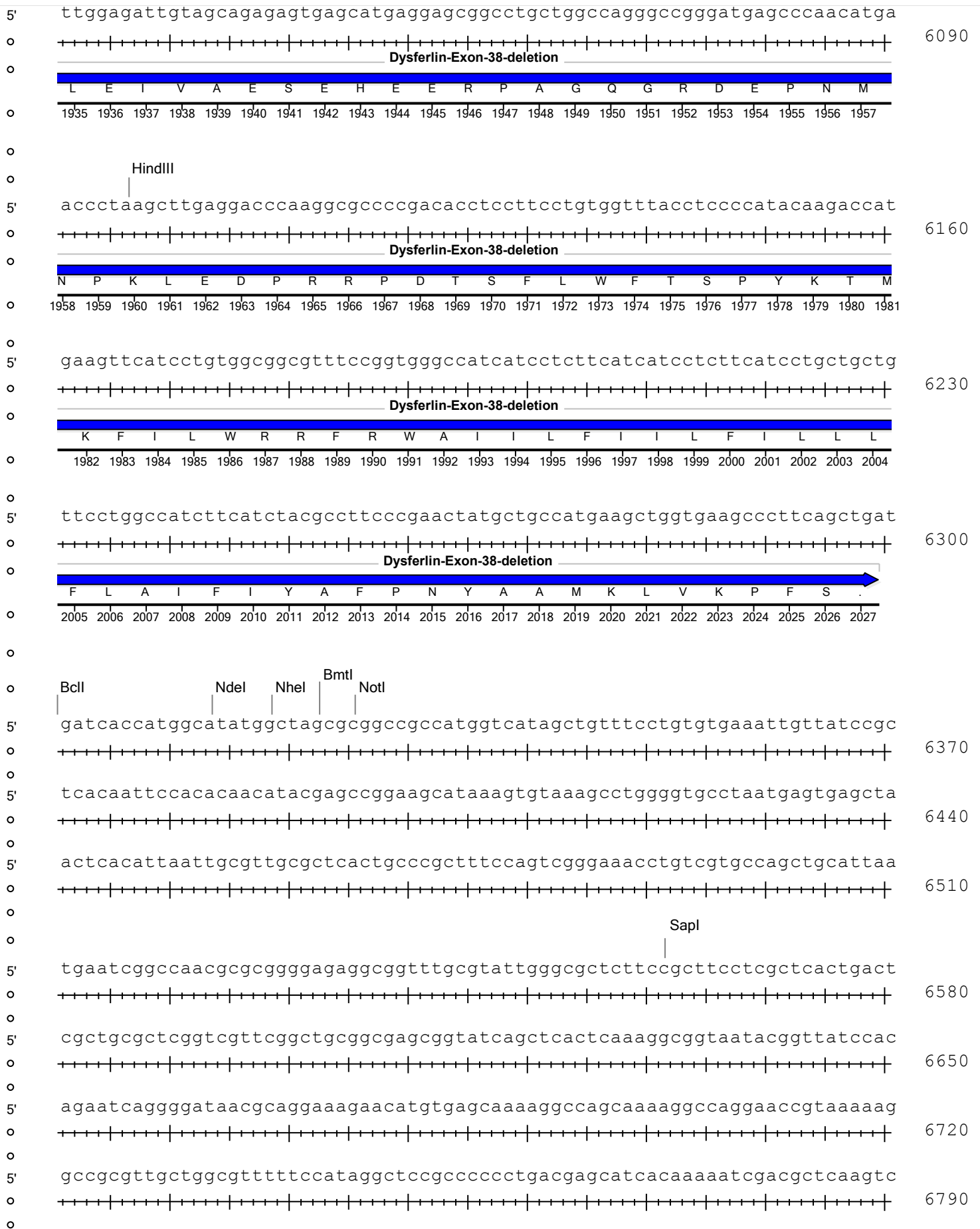
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o
o **Dysferlin-Exon-38-deletion**
o D K T E S K I P A R V V F Q I W D N D K F S F
o 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864

o
o
o SphI
5' gatgattttctgggctccctgcagctcgatctcaaccgcatgcccaagccagccaagacagccaagaagt 5880
o
o
o **Dysferlin-Exon-38-deletion**
o D D F L G S L Q L D L N R M P K P A K T A K K
o 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887

5' gctccttgaccagctggatgatgctttccaccagaaatggtttgtgtccctttttgagcagaaaacagt 5950
o
o
o **Dysferlin-Exon-38-deletion**
o C S L D Q L D D A F H P E W F V S L F E Q K T V
o 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911

5' gaagggtggtggccctgtgtagcagaagaggggtgagaagaaaatactggcgggcaagctggaaatgacc 6020
o
o
o **Dysferlin-Exon-38-deletion**
o K G W W P C V A E E G E K K I L A G K L E M T
o 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934

Dysferlin-Exon-38-deletion_in_pUC57-Kan



Dysferlin-Exon-38-deletion_in_pUC57-Kan

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Kan

Kan

Kan

Kan

Kan

Dysferlin-Exon-38-deletion_in_pUC57-Kan

AsiSI
PvuI

