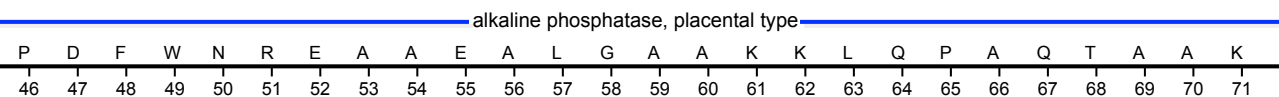


NotI
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fi...a
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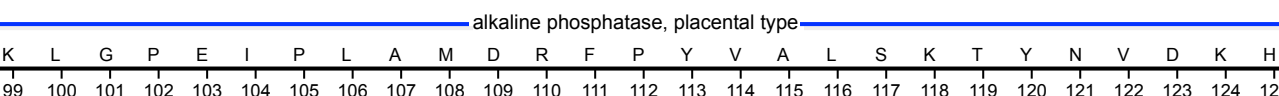
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BamHI
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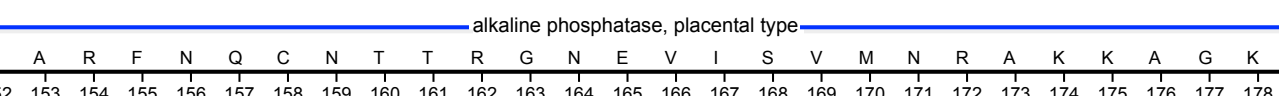
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BstXI
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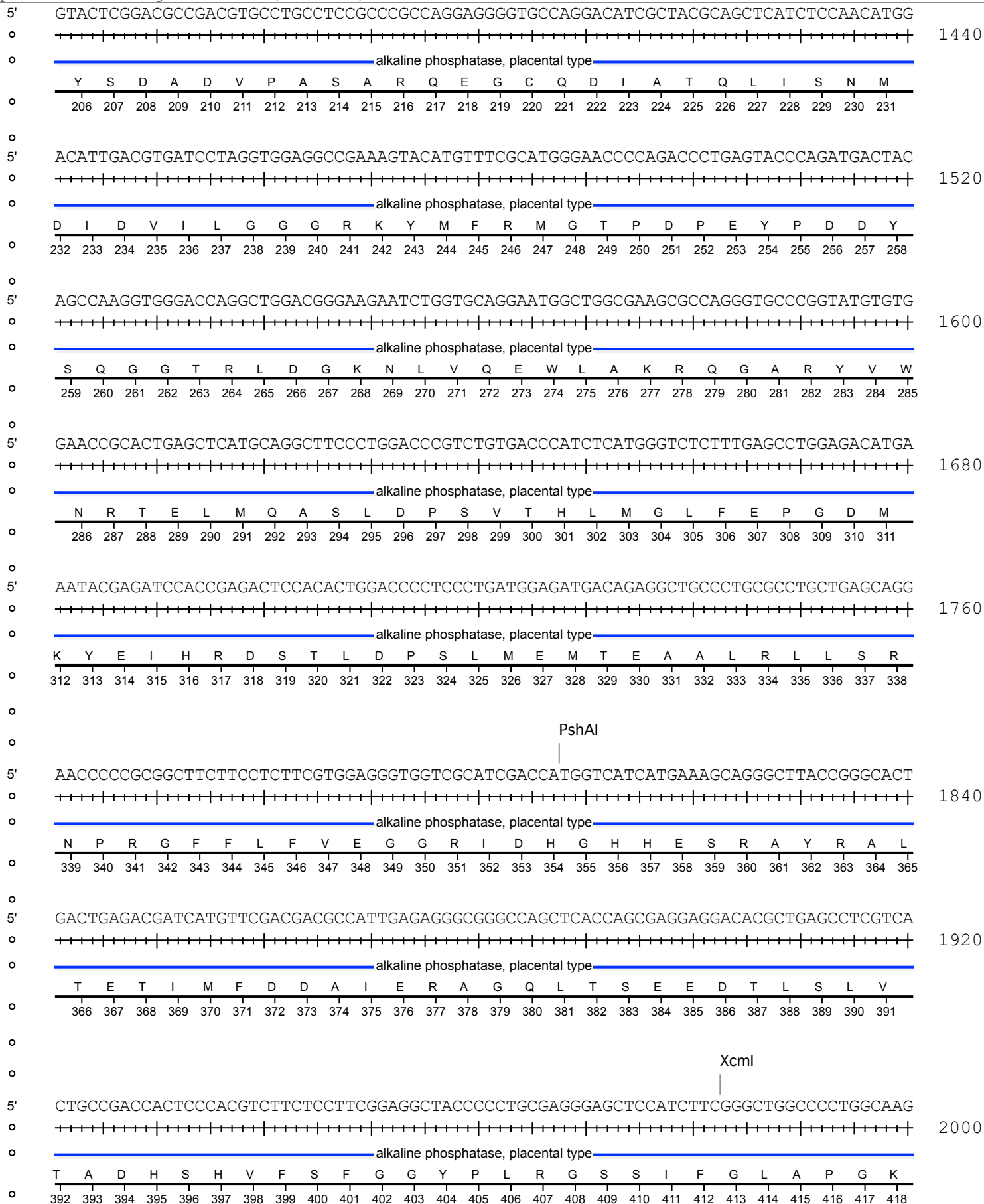


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BstEII AleI
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5' GCCCGGGACAGGAAGGCTACACGGTCCCTTACCGGAAACGGTCCAGGCTATGTGCTCAAGGACGGCGCCCGGCCGGA 2080
 |-----|
 alkaline phosphatase, placental type
 A R D R K A Y T V L L Y G N G P G Y V L K D G A R P D
 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445

5' TGTTACCGAGAGCGAGAGCGGGAGCCCCGAGTATCGGCAGCAGTCAGCAGTGCCCTGGACGAAGAGACCCACGCAGGCG 2160
 |-----|
 alkaline phosphatase, placental type
 V T E S E S G S P E Y R Q Q S A V P L D E E T H A G
 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471

MauBI

5' AGGACGTGGCGGTGTTCGCGCGCGGCCCGCAGGCGCACCTGGTTCACGGCGTG CAGGAGCAGACCTTCATAGCGCACGTC 2240
 |-----|
 alkaline phosphatase, placental type
 E D V A V F A R G P Q A H L V H G V Q E Q T F I A H V
 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498

5' ATGGCCTTCGCCGCCTGCCTggagccctacaccgctgcgacctggcgccccccgcccggcaccaccgacgcccgcgaccc 2320
 |-----|
 alkaline phosphatase, placental type
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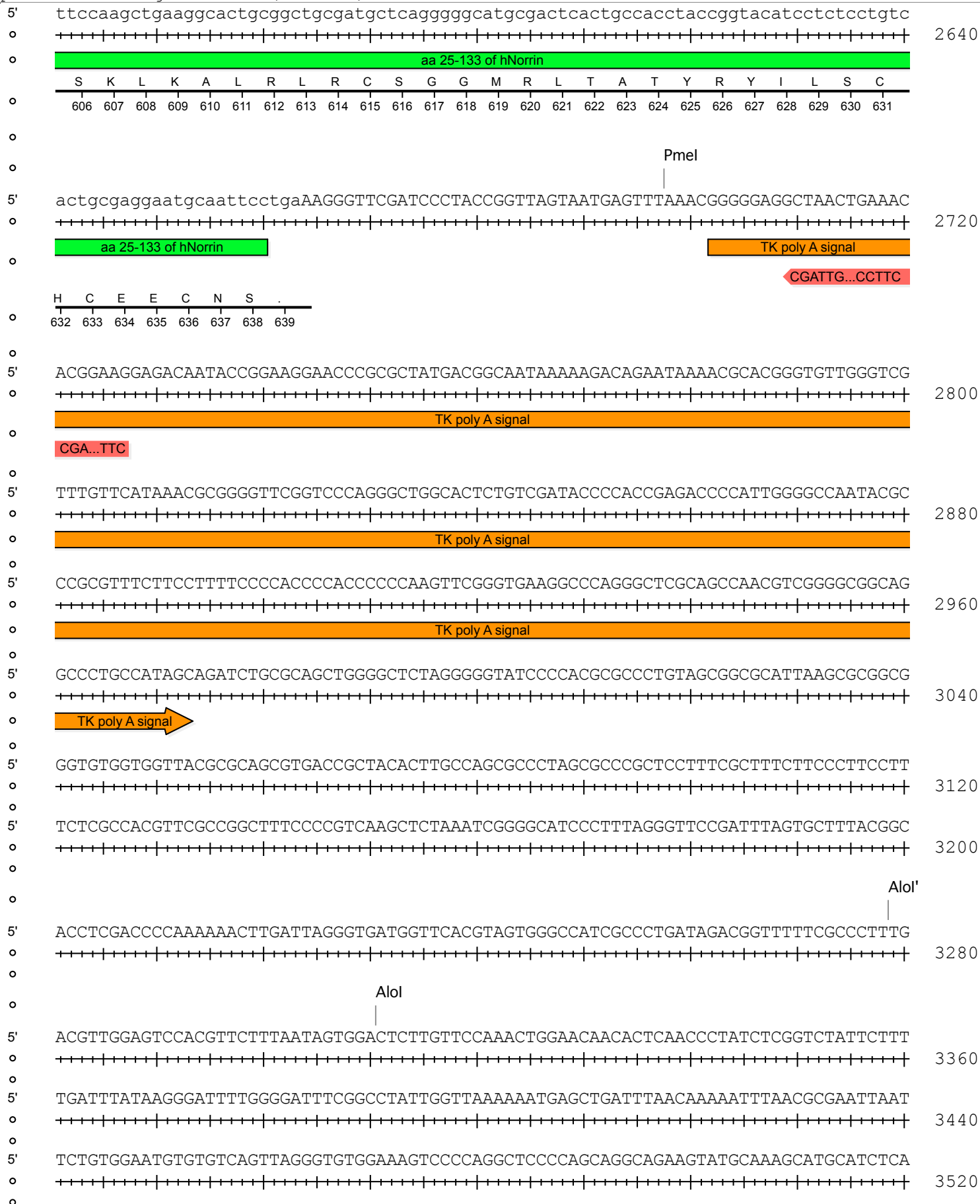
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 G Y L E K T D S S F I M D S D P R R C M R H H Y V D
 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551

BsrGI

5' ctatcagtcaccattgtacaagtgtagctcaaagatggtgctcctggccaggtgcgaggggactgcagccaggcgtca 2480
 |-----|
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 S I S H P L Y K C S S K M V L L A R C E G H C S Q A S
 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578

5' cgctccgagccttgggtgctgcttcagcactgtcctcaagcaacccttccgttctcctgtcactgctgcccggccccagac 2560
 |-----|
 aa 25-133 of hNorrin
 R S E P L V S F S T V L K Q P F R S S C H C C R P Q T
 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605



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o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' GCAACCATAGTCCCGCCCCTAACTCCGCCATCCCGCCCCCTAACTCCGCCAGTTCGCCCATTCCTCCGCCCATGGCTG 3680
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
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o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
o
5' GAGGCCTAGGCTTTTGCAAAAAGCTCCCGGGAGCTTGATATCCATTTTCGGATCTGATCAAGAGACAGGATGAGGATCG 3840
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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5' TTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGC 3920
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' ACAACAGACAATCGGCTGCTCTGATGCCGCGTGTTCGGCTGTCAGCGCAGGGGCGCCGTTCTTTTGTC AAGACCG 4000
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' ACCTGTCCGGTGCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGC 4080
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
o
5' GCTGTGCTCGACGTTGTC ACTGAAGCGGAAGGGACTGGCTGCTATTTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATC 4160
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' TCACCTTGCTCCTGCCGAGAAAAGTATCCATCATGGCTGATGCAATGCCGCGGCTGCATACGCTTGATCCGGCTACCTGCC 4240
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' CATTTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTG 4320
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
5' GACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTTCGCCAGGCTCAAGGCGGCATGCCCGACGGCGAGGATCTCGT 4400
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5' CGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCATCGACTGTGGCCGGC 4480
o |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
o
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5' TGGGTGTGGCGGACCCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGCGGCGAATGGGCTGAC 4560
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5' CGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCAGCGCATCGCTTCTATCGCCTTCTTGACGAGTTCTTCTG 4640
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5' AGCGGGACTCTGGGGTTCGCGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCACGAGATTTTCGATTCCACCGCCGCC 4720
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5' TTCTATGAAAGGTTGGGCTTCGGAATCGTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGA 4800
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5' GTTCTTCGCCACCCCCAACTGTTTATGTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATA 4880
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BstZ17I

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5' CCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCCTATT 5200
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5' GGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAA 5280
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AhdI

o
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o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
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o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
5' ACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTC CCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCA
o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
o
o
5' AAAAAGCGGTTAGCTCCTTCGGTCCCGATCGTTGTCAGAAAGTAAGTTGGCCGCAGTGTATCACTCATGGTTATGGCA
o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
o
o
5' GCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGT GAGTACTCAACCAAGTCATTCTG
o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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5' AAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAA AACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAA
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o
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o
o
o
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o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
o
o
5' TACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGG
o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
o
o
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