













BGT01\_T01a-pET32-DEST

5' ctggtcagagacatcaagaaataacgccggaacattagtgccagcagcttccacagcaatggcatcctgg  
 4340  
 3' gaccagtctctgtagttctttattgcggccttgaatcacgtccgctcgaagggtgcggtaccgtaggacc  
 Lac I

5' tcatccagcggatagttaatgatcagcccactgacgcggttgccgcgagaagattgtgcaccgccgctttac  
 4410  
 3' agtaggtcgcctatcaattactagtcgggtgactgcccgaacgcgctcttctaacacgtggcggaatg  
 Lac I

5' aggcttcgacgccgcttcggttctaccatcgacaccaccacgctggcaccagttgatcggcgcgagattt  
 4480  
 3' tccgaagctgcccgaagcaagatggtagctgtgggtggcgaccgtgggtcaactagccgcgctctaaa  
 Lac I

5' aatcgccgcgacaatttgccgacggcgcggtgcagggccagactggaggtggcaacgccaatcagcaacgac  
 4550  
 3' ttagcggcgctgttaaagcgtgccgcgcacgtcccgggtctgacctccaccggtgcccgttagtcggtgctg  
 Lac I

5' tgtttgccgcagcttgtttgtgccacgcggttgggaatgtaattcagctccgccatcgccgcttccactt  
 4620  
 3' acaaacgggcggtcaacaacacggtgcccgaacccttacattaagtcgagggcggtagcggcgaagggtgaa  
 Lac I

5' tttcccgcgcttttcgcagaaacgtggctggcctgggtcaccacgcgggaaacggtctgataagagacacc  
 4690  
 3' aaagggcgcaaaagcgtctttgcaccgaccggaccaagtggtgcccctttgccagactattctctgtgg

5' ggcatactctgcgacatcgtataacgttactgggttcacattcaccaccctgaattgactctcttccggg  
 4760  
 3' ccgatatgagacgctgtagcatattgcaatgaccaaagtgttaagtggtgggacttaactgagagaaggccc

5' cgctatcatgccataaccgcgaaagggttttgcccattcgatgggtgtccgggatctcgacgctctccctta  
 4830  
 3' gcgatagtagggtatggcgctttccaaaacgcggttaagctaccacaggccctagagctgagaggggaat

5' tgcgactcctgcattaggaagcagcccagtagtagggtgaggccggtgagcaccgccgcccgaaggaaatg  
 4900  
 3' acgctgaggacgtaatccttcgctcgggtcatcatccaactccggcaactcgtggcgggcggttccttac

SphI

5' gtgcatgcaaggagatggcgcccaacagtccccggccacggggcctgccaccatacccacgccgaaaca  
 4970  
 3' cacgtacgttccctctaccgcgggttgtcagggggccggtgccccggacggtggtatgggtgcccgtttgt

5' agcgtcatgagcccgaagtggcgagcccgatcttcccacatcggtgatgtcggcgatataggcgccagca  
 5040  
 3' tcgcgagtactcgggcttcaccgctcgggctagaaggggtagccactacagccgctatatccgcggctcgt

o  
 5' accgcacctgtggcgccgggtgatgccggccacgatgCGTCCGGCGTAGAGGATCGAGATCGATCTCGATC  
 o  
 3' tggcgtggacaccgCGGCCACTACGGCCGGTGCTACGCAGGCCGCATCTCCTAGCTCTAGCTAGAGCTAG

5110

SgrAI

XbaI

o  
 5' ccgcgaaattaatacGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCTCTAGAAATAATTTT  
 o  
 3' ggCGCTTAAATTATGCTGAGTGATATCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAATAA

5180



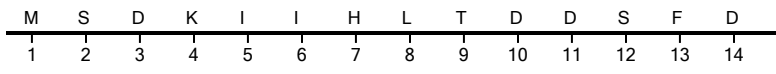
BamHI

BamHI'

o  
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 o  
 3' CAAATTGAAATTCCTCCTATATGTATACTCGCTATTTAATAAGTGGACTGACTGCTGTCAAAACTGT

5250

Trx Tag

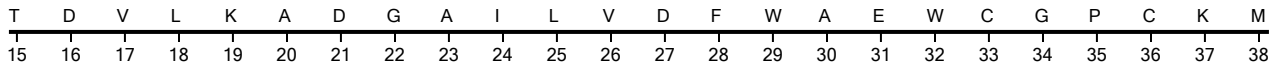


RsrII

o  
 5' CGGATGTACTCAAAGCGGACGGGGCGATCCTCGTCGATTTCTGGGCAGAGTGGTGCGGTCCGTGCAAAAT  
 o  
 3' GCCTACATGAGTTTCGCCTGCCCGCTAGGAGCAGCTAAAGACCCGTCTCACCACGCCAGGCAGTTTTA

5320

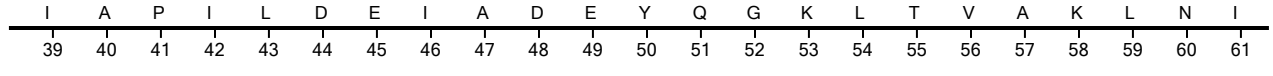
Trx Tag



o  
 5' gatcGCCCCGATTCTGGATGAAATCGCTGACGAATATCAGGGCAAAC TGACCGTTGCAAAACTGAACATC  
 o  
 3' ctagcggggctaagacctactttagcGACTGCTTATAGTCCCGTTTGACTGGCAACGTTTGTACTTGTAG

5390

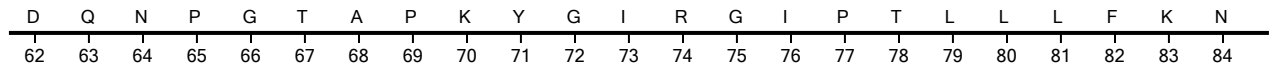
Trx Tag



o  
 5' gatcaaaaccctggcactgcgCCGAAATATGGCATCCGTGGTATCCCGACTCTGCTGCTGTTCAAAAACG  
 o  
 3' ctagttttgggaccgtgacgcggctttataccgtaggcaccatagggctgagacgacgacaagtttttgc

5460

Trx Tag









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5' TGAACATGAATCAAGAGAAGTAGATGAAACGAATCCATTTGTATCAATCTTGTTTAGCGGGAATGGAAAAA  
 6230  
 3' ACTTGTACTTAGTTCTCTTCATCTACTTTGCTTAGGTAACATAGTTAGAACAAATCGCCCTTACCTTTTT

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E H E S R E V D E T N P L Y Q S C L A G M E K  
 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341

5' TGGAACAAACAGTATGGAATGAAATGTAATAGTATGTATGATATTATGAACCATCCTGGTGATATTACAA  
 6300  
 3' ACCTTGTTTGTACATACCTTACTTTACATTATCATACTATAAATACTTGGTAGGACCACTATAATGTT

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W N K Q Y G M K C N S M Y D I M N H P G D I T  
 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364

5' TTGTGTATACTTCAAAGGAATATCAGCCGCGTTCAGATGTATTCGATGAATCGTATAAGTTTGTGGCCC  
 6370  
 3' AACACATATGAAGTTTCCTTATAGTCGGCGCAAGTCTACATAAGCTACTTAGCATATTCAAACAACCGGG

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I V Y T S K E Y Q P R S D V F D E S Y K F V G P  
 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388

5' ATCAATTGCTACTCGAAAAGAAGTAGGTAGCTTTTCTATGGAAGATTTAAAAGATGAAAAATTGATTTTC  
 6440  
 3' TAGTTAACGATGAGCTTTTCTTCATCCATCGAAAGGATACCTTCTAAATTTTCTACTTTTAACTAAAAG

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S I A T R K E V G S F P M E D L K D E K L I F  
 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411

5' ATTTCTATGGGAACAGTTTTTAATGAACAACCTGAGTTATATGAAAAATGTTTTGAAGCGTTTAAAGATG  
 6510  
 3' TAAAGATACCCTTGTCAAAATTACTTGTGGACTCAATATACTTTTACAAAACCTTCGCAAATTTCTAC

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I S M G T V F N E Q P E L Y E K C F E A F K D  
 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434

BGT01\_T01a-pET32-DEST

5' TAGAAGCGACAGTCGTATTAGTTGTTGGTAAGAAGATAAATATAAGTCAATTTGAAAACATTC CGAATAA  
 3' ATCTTCGCTGTCAGCATAATCAACAACCATTCTTCTATTTATATTCAGTTAAACTTTTGTAAGGCTTATT

6580

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V E A T V V L V V G K K I N I S Q F E N I P N N  
 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458

Psrl'

5' CTTTAAGTTGTATAATTATGTGCCGCAATTAGAACTATTACAGTATGCTGATGTATTCGTAACACACGGC  
 3' GAAATTC AACATATTAATACACGGCGTTAATCTTGATAATGTCATACGACTACATAAGCATTGTGTGCCG

6650

BGT01\_T01a

BGT01\_T01a-pDONR221

F K L Y N Y V P Q L E L L Q Y A D V F V T H G  
 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481

Psrl

5' GGTATGAATAGTTCAAGTGAAGCACTATATTACGGTGTCCCGTTAGTTGTAATTCCGGTAACAGGAGATC  
 3' CCATACTTATCAAGTTC ACTTTCGTGATATAATGCCACAGGGCAATCAACATTAAGGCCATTGTCCTCTAG

6720

BGT01\_T01a

BGT01\_T01a-pDONR221

G M N S S S E A L Y Y G V P L V V I P V T G D  
 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504

5' AGCCTTTAGTTGCGAAACGAGTAAATGAAGTAGGGGCTGGAATAAGGCTTAATCGCAAAGAATTA ACTTC  
 3' TCGGAAATCAACGCTTTGCTCATTACTTCATCCCCGACCTTATTCCGAATTAGCGTTTCTTAATTGAAG

6790

BGT01\_T01a

BGT01\_T01a-pDONR221

Q P L V A K R V N E V G A G I R L N R K E L T S  
 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528

5' TGAAATGTTACGTGAGTCTGTAAAGAAAGTGATGGATGATGTAACGTTTAAGGAAAAAGTCGTAAAGTT  
 3' ACTTTACAATGCACTCAGACATTTCTTTC ACTACCTACTACATTGCAAATTCCTTTTTTTCAGCATTTC AA

6860

BGT01\_T01a

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E M L R E S V K K V M D D V T F K E K S R K V  
 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551

