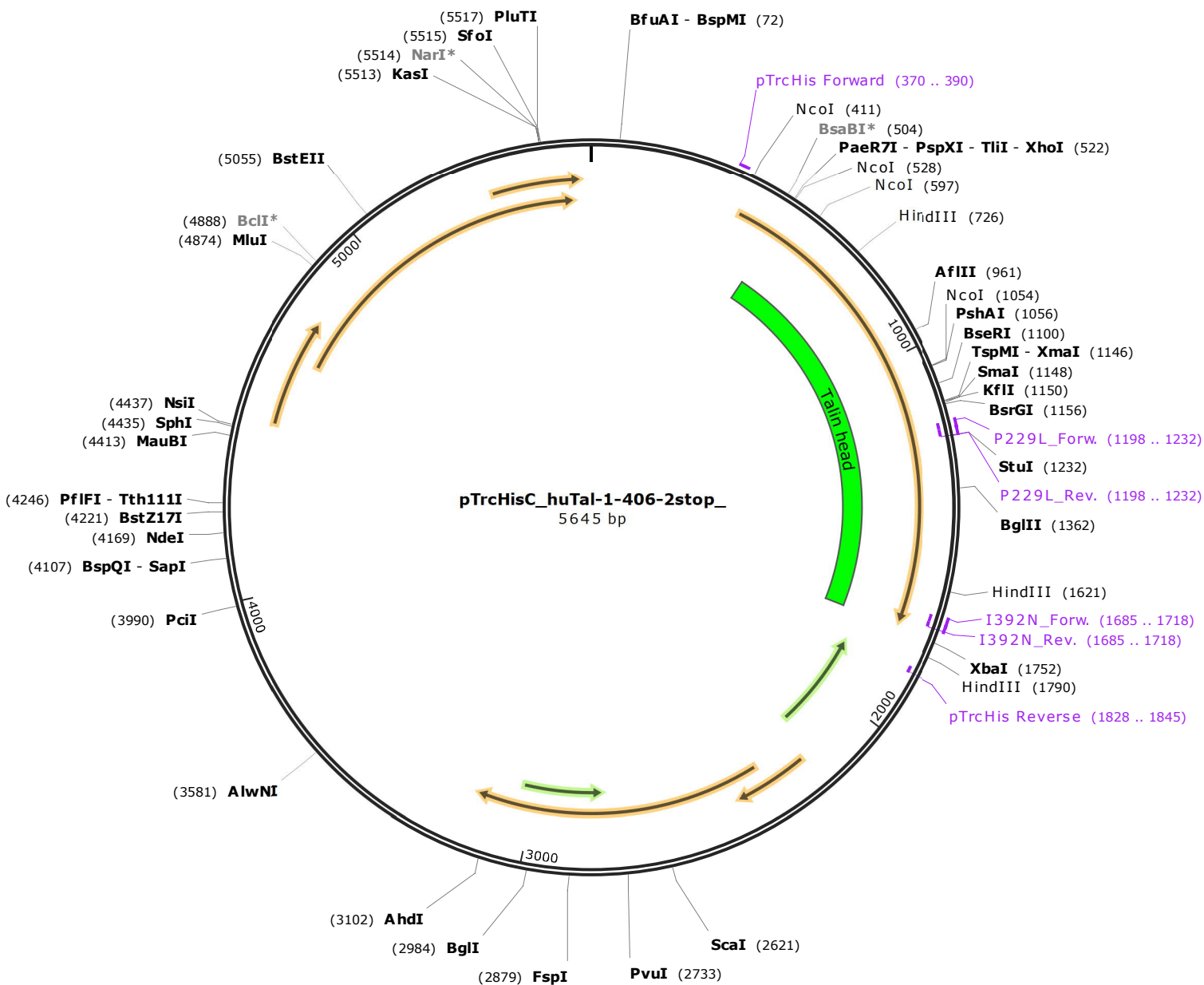


pTrcHisC_huTal-1-406-2stop -



5' GTTTGACAGCTTATCATCGACTGCACGGTGCACCAATGCTTCTGGCGTCAGGCAGCCATCGGAAGCTGTGGTATGGCTGTGCAGGTCGTAATCACTGCATAATTCGTGT 110
 3' CAAACTGTCGAATAGTAGCTGACGTGCCACGTGGTTACGAAGACCGCAGTCCGTCGGTAGCCTTCGACACCATACCGACAGTCCAGCATTAGTGACGTATTAAGCACAC

CGCTCAAAGGCGCACTCCCCTTCTGGATAATGTTTTTTCGCCGACATATAACGGTTCGGCAAATATTCTGAAATGAGCTGTTGACAAATTAATCATCCGGCTCGTATAA 220
 GCGAGTCCGCGTGAGGGCAAGACCTATTACAAAAACGCGGCTGTAGTATTGCCAAGACCGTTTATAAGACTTTACTCGACAAGTGAATTAAGTAGAGCCGAGCATATT

TGTGTGGAATTGTGAGCGGATAACAATTTACACAGGAAACAGCGCCGCTGAGAAAAAGCGAAGCGGCACTGCTCTTTAACAAATTTATCAGACAATCTGTGTGGGCACTC 330
 ACACACCTTAACACTCGCCTATTGTTAAAGTGTGTCTTTGTGCGGGGCACTCTTTTCGCTTCGCCGTGACGAGAAATTTGTTAAATAGTCTGTTAGACACACCCGTGAG

BfuAI
BspMI

pTrcHis Forward
GAGGTATATATTAATGTATCG

NcoI

GACCGAATTATCGATTAACCTTTATTATTAATAAATAAGAGGTATATATTAATGTATCGATTAATAAGGAGGAATAAACCATGGGGGTTCTCATCATCATCATCATC 440
 CTGGCCTTAATAGCTAATTGAAATAATAATTTTAATTTCTCCATATATAATTACATAGCTAATTTATTCTCTCTATTGTTGGTACCCCCAAGAGTAGTAGTAGTAGTAG

M G G S H H H H H →

TliI
XhoI
PspXI
PaeR7I

BsaBI* NcoI

ATGGTATGGCTAGCATGACTGGTGGACAGCAAATGGGTGGGATCTGTACGACGATGACGATAAAGGATCGATGGATCCGACCTCGAGCCATGGTTGCACTTTCACTGAAG 550
 TACCATACCGATCGTACTGACCACCTGTCGTTTACCCAGCCCTAGACATGCTGCTACTGCTATTCCCTAGCTACCTAGGCTGGAGCTCGGTACCAACGTGAAAGTGACTTC

Talin head →

H G M A S M T G G Q Q M G R D L Y D D D K D R W I R P R A M V A L S L K →

NcoI

ATCAGCATTGGGAATGTGGTGAAGACGATGCAGTTTGGCCGCTTACCATGGTGTACGACCGCTGCCGCATCATTCTGTGAGCGGATCCCAGAGGCCCCAGCTGGTCTCTC 660
 TAGTCGTAACCCTTACACCACTTCTGCTACGTCAAACCTCGGCAGATGGTACCACATGCTGCGGACGGCGTAGTAAGCACTCGCTAGGGTCTCCGGGGTTCGACCAGGAGG

Talin head →

I S I G N V V K T M Q F E P S T M V Y D A C R I I R E R I P E A P A G P P →

HindIII

CAGCGACTTTGGGCTCTTCTGTGATGATGACCCAAAAAGGGTATATGGCTGGAGGCTGGGAAAGCTTTGGACTACTACATGCTCCGAAATGGGGACACTATGGAGT 770
 GTCGCTGAAACCCGAGAAAGACAGTCTACTACTGGGGTTTTCCCATATACCGACCTCCGACCCTTTCGAAACCTGATGATGTACGAGGCTTTACCCCTGTGATACCTCA

Talin head →

S D F G L F L S D D D P K K G I W L E A G K A L D Y Y M L R N G D T M E →

ACAGGAAGAAACAGAGACCCCTGAAGATCCGTATGCTGGATGGAAGTGTGAAGACGATCATGGTGGATGACTCTAAGACTGTCACTGACATGCTCATGACCATCTGTGCC 880
 TGCTCTTTGCTCTGAGGACTTCTAGGCATACGACCTACCTTGACACTTCTGCTAGTACCACCTACTGAGATTCTGACAGTGACTGTACGAGTACTGGTAGACACGG

Talin head →

Y R K K Q R P L K I R M L D G T V K T I M V D D S K T V T D M L M T I C A →

AfIII

CGCATTGGCATACCAATCATGATGAATATTCATTGGTTCGAGAGCTGATGGAAGAGAAAAAGGAGGAAATAACAGGGACCTTAAGAAAGGACAAGACATTGCTGCGAGA 990
 GCGTAACCGTAGTGGTTAGTACTACTTATAAGTAACCAAGCTCTCGACTACCTTCTCTTTTCTCTCTTATTGTCCTGGAATTCTTCTGTTCTGTAACGACGCTCT

Talin head →

R I G I T N H D E Y S L V R E L M E E K K E E I T G T L R K D K T L L R D →

PvuI

GCATCTTACGGATGGCATGACAGTAAGAGAATTATGCAGTGTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGC 2750
 CGTAGAATGCCTACCGTACTGTCTTCTTAATACGTACGACGGTATTGGTACTCACTATTGTGACGCCGGTTGAATGAAGACTTTGCTAGCCTCCTGGCTTCCCTCG

H L T D G M T V R E L C S A A I T M S D N T A A N L L L T T I G G P K E →

TAACCGCTTTTTTGCACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTA 2860
 ATTGGCGAAAAACGTGTTGTACCCCTAGTACATTGAGCGGAAC TAGCAACCCTTGGCTCGACTTACTTCGGTATGGTTTGCTGCTCGCACTGTGGTGCTACGGACAT

L T A F L H N M G D H V T R L D R W E P E L N E A I P N D E R D T T M P V →
 * T V R R S R Q S G S S F S A M G F S S R S V V I G T ←

FspI

GCAATGGCAACAACGTTGCGCAAACTATTAACCTGGCAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCT 2970
 CGTTACCGTGTGTTGCAACGCGTTTGATAATTGACCGCTTGATGAATGAGATCGAAGGGCCGTTGTTAATTATCTGACCTACCTCCGCTATTTCACGTCCTGGTGAAGA

A M A T T L R K L L T G E L L T L A S R Q Q L I D W M E A D K V A G P L L →
 A I A V V N R L S N V P S S S V R A E R C C N I S Q I S A S L T A P G S R ←

BglI

GCGCTCGGCCCTTCCGGCTGGCTGGTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTA 3080
 CGCGAGCCGGGAAGGCCGACCGACCAAAATACGACTATTAGACCTCGGCCACTCGCACCCAGAGCGCCATAGTAACGTCGTGACCCCGGTCTACCATTCCGGGAGGGCAT

R S A L P A G W F I A D K S G A G E R G S R G I I A A L G P D G K P S R →
 R E A R G A P Q N I A S L D P A P S R P D R P I M ←

AhdI

TCGTAGTTATCTACACGACGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAGACCAAGTT 3190
 AGCATCAATAGATGTGCTGCCCTCAGTCCGTTGATACCTACTTGTCTTATCTGTCTAGCGACTCTATCCACGGAGTGACTAATTCGTAACCATTGACAGTCTGGTTCAA

I V V I Y T T G S Q A T M D E R N R Q I A E I G A S L I K H W * →

TACTCATATATACTTTAGATTGATTTAAACTTCATTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTTC 3300
 ATGAGTATATATGAAATCTAACTAAATTTGAAGTAAAAATTAATTTTCTAGATCCACTTCTAGGAAAACATTAGAGTACTGGTTTTAGGGAATTGCACCTAAAAG

GTTCCACTGAGCGTCAGACCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTCTGCGGTAATCTGCTGCTTGCAACAAAAAACACCCTACCAGCGG 3410
 CAAGGTGACTCGCAGTCTGGGGCATCTTTCTAGTTTCTAGAGAAGTCTAGGAAAAAAGACGCGCATTAGACGACGAACGTTTGTTTTTTGGTGCGATGGTCGCC

TGGTTTGTGTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACCTGGCTTCCAGAGCGCAGATACCAATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCAC 3520
 ACCAAACAACGGCCTAGTTCTCGATGGTTGAGAAAAAGGCTTCCATTGACCGAAGTCTCTCGGCTATGGTTTATGACAGGAAGATCACATCGGCATCAATCCGGTG

AlwNI

CACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAAGTGGCTGCTGCCAGTGGCGATAAGTCTGTCTTACCGGTTGGACTCAAGACG 3630
 GTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATGGTACCGACGACGGTACCGCTATTGACACAGAATGGCCCAACTGAGTTCTGC

ATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGTTCTGTGCACACAGCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTAT 3740
 TATCAATGGCCTATTCCGCGTCGCCAGCCGACTTGCCCCCAAGCACGTGTGTGGGTCGAACCTCGCTTGTGGATGTGGCTTGACTCTATGATGTGCACTCGATA

GAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCCCTGGTAT 3850
 CTCTTTCGCGGTGCGAAGGGCTTCCCTCTTCCGCTGTCCATAGGCCATTGCGCGTCCAGCCTTGCTCTCGCGTCTCCCTCGAAGTCCCCCTTGGCGACCATA

CTTTATAGTCTGTGCGGTTTCGCCACCTCTGACTTGAGCGTCTGATTTTTGTGATGCTCGTACGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCTTTTTACG 3960
 GAAATATCAGGACAGCCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACTACGAGCAGTCCCCCGCTCGGATACCTTTTTGCGGTGCTGCGCCGAAAAATGC

