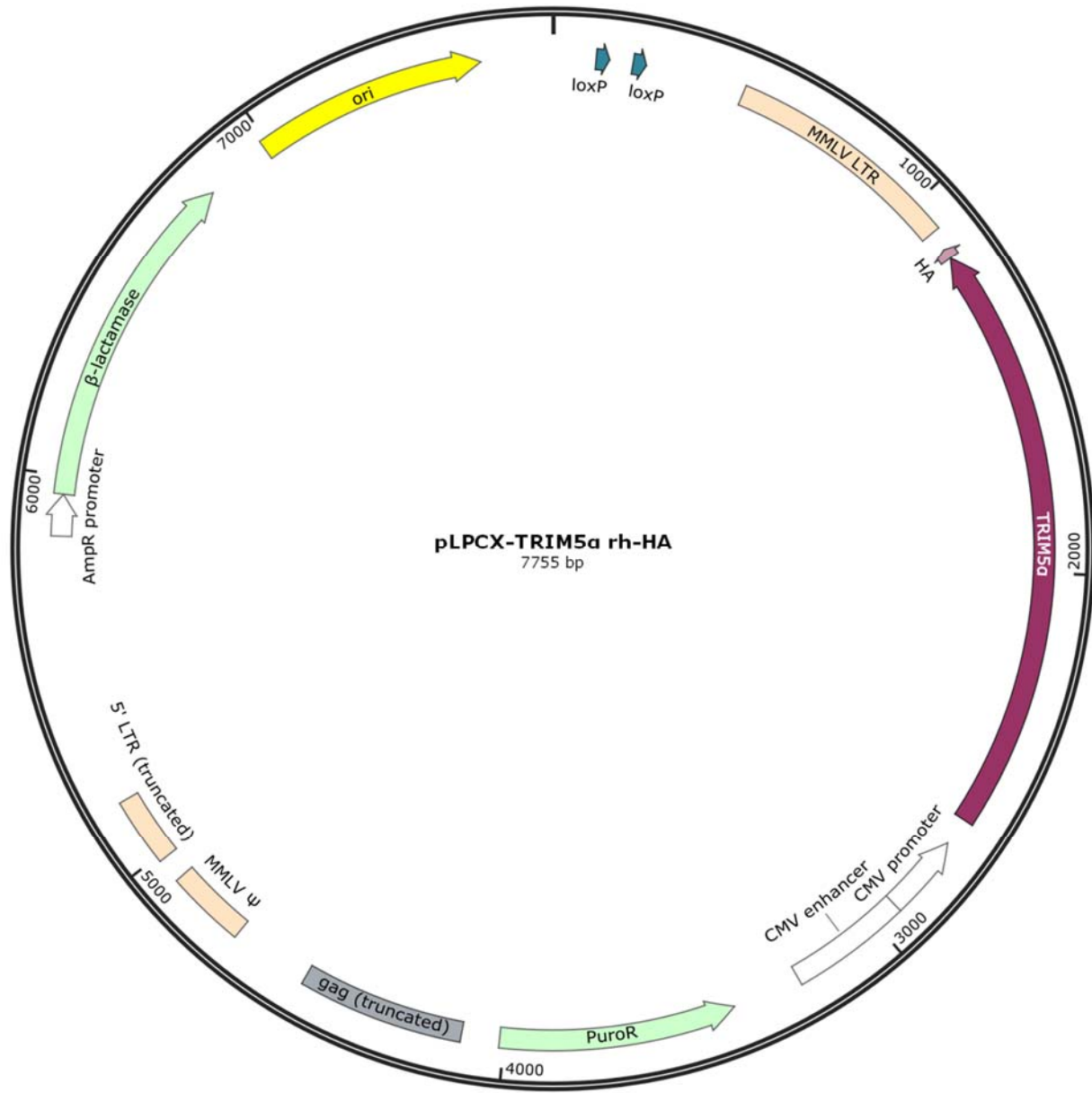


Created with SnapGene®



Sequence :

AGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTACACCCGCATATGGTGCCTCTCAG
TACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTACTGATAACTTCGTATAGCATACATTATACGAAGT
TATATTAAGGGTTCCGGATCGCGGCCCTAGCTTGGCTGGACGTAAACTCCTCTTACAGACCTAATAACTTC
GTATAGCATACATTATACGAAGTTATCAGTACACTCCGCTATCGCTACGTGACTGGGTCTATGGCTGCGCC
CCGACACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAA
GCTGTGACCGTCTCCGGGAGCTGCATGTGTCTCAGAGGTTTTTACCGTTCATCACCGAAACGCGCGAGGCAGC
CAGCTTACCTCCCGGTGGTGGGTCTGGTCCCTGGGACGGGGTCTCCCGATCCCGGACGAGCCCCAAA
TGAAAGACCCCGCTGACGGGTAGTCAATCACTCAGAGGAGACCCTCCCAAGGAACAGCGAGACCACAAG
TCGGATGCAACTGCAAGAGGGTTTATTGGATACACGGGTACCCGGGCGACTCAGTCAATCGGAGGACTGG
CGCCCCGAGTGAGGGTGTGGGCTCTTTTATTGAGCTCGGGGAGCAGAAGCGCGCAACAGAAGCGAGA
AGCGAACTGATTGGTTAGTTCAAATAAGGCACAGGGTCAATTCAGTCCCTTGGGGCACCCTGGAAACATC
TGATGTTTCTCTAGAACTGCTGAGGGCTGGACCGCATCTGGGGACCATCTGTTCTTGGCCCTGAGCCGG
GGCAGGAACTGCTTACCACAGATATCCTGTTTGGCCCATATTCAGTGTTCATCTGTTCTTGGCCCTGA
GCCGGGGCAGGAACTGCTTACCACAGATATCCTGTTTGGCCCATATTCAGTGTTCATCTGTTCTGAC
CTTGATCTGAACTTCTTATTCTCAGTTATGTATTTTTCCATGCCTTGCAAAATGGCGTTACTTAAGCTA
GCTTGCCAAACCTACAGGTGGGGTCTTTCATTCCCCCTTTTTCTGGAGACTAAAATAAAATCTTTTTATTT
TATCGATGGCTCAAGCGTAGTCTGGGACGTCTGATGGGTAGCCGCCAGAGCTTGGTGAGCACAGAGTCAT
GGGGACTGTACATTTTCTGGGATTTAAATATGGAAATACAGGCTTAGAAAAAGAACACTGAGAAAACCTTA
TAGATGAGAAATCCATGGTTTGTGATATTGAAGAATGAGACAGTGCAAGCCTCATAGTCTACGAAAACCTC
CAACACGATCAGGACAAATAATCACAGAGAGGGGCACAATGAAAGGAGCAAAAGGAGTATGTGAGGAACC
ATCCTGAAAACACTATATTTAACTCCTTCTGTAACCCTATAACCAGTAGCCATATTTAGGTTGATAA
TTTTCATTTTGTTCATATTTATACATTCGATCGGATTGGAAGCCAGCACATAACCCAGGATCCAAGCAC
TTTTCTTGGACACATCTACCTCCAGTAATGCTTCCCTGATGTGATACTTTGGGAGCCCAGGACGCCAGT
ACAATAATTGAAATTCGTGAGTGACGGAAACGTAATAATGTCCCTGGTGCCTGATACATTATCTGTGGG
TTCCGAGAGCTCACTTGTCTCTTATCTTTCAGCAATGACAGCATGCGAAATGTTGTTGTAGCCAGTGTCA
CATCAACCCAGTAGCGTCCGGCATCTGTTAGCTCTCTAAACATGTCTAGCATTCTTTTCAGATCAGGAGC
TCGAAACACTCTCCTTTGATTTTTGTGAAAAGTTTTTGGCTTCTTCAAGGTCATGTTCTCAATCCTTTTA
ATGATGCCATCCACACCCTGCAGTAGATCCATCATTGACCCCTGCAACCGATGCTCCAGTTCTGAGATGA
GCTCTCTCATGTACTGGGTCTGCTGCACCATCTCCGTTTCAGACTTCGTAAGGCTTTTCAGAATGTCTTC
TTCCCTCTTCTCCAGTTCTGCAGCTCATTGCTCTCCTCCAGTCCAGGATCTCTCTCAGTTGCTCAAAA
TCTGCCGAGACGTTGGTTTTGTCTGAGTCTATTTGAATCTTCCAGGAAGCTTTCTCTTCTCTGATGTCAG
CTTCCAACTTTTTTCAGCTTCCCTGCTGCTTCTGCCTCAGCATCTCCAGAGCTGTCTGGAGCTTACATGGTA
CTCCTGGGCAACCTCCTCCATGAGGAAAGTGTGGTGACCACGGTGTCTCCTGAGACCGCTCACAAAGCCAG
CAAATGACCTTGTCTCCTCCTGACAGAAGAGTAGGAGTTTCTCTCCATGGCGTGCACAGTGATCAACCT
TCTGTCCCTCTTCTGGGCTCAACTGACCTCCCTGAGCTTCTCCACTATGTTGGCTACATGCCGATTAGG
CTGTATGTTCTCAGGCTGGTAACTGATCCGGCACACAGGGCAGCTTCTCTCTCCTTCTTTGTATAGCATG
GACTTCTTGTGGTTCGAGTGATGCACGCTTGGCAGAAGCTGTGGCCGAGTGCAGACTCAGGGGTTCTG
TCAGGAGTTCCAGGCAGATGGGACAGGTCACCTCCTCCTTTACATTAAGCAGGATTCAGAAAGCCATGGT
GGCGAATTCGAAGCTTGGCTCGAGATCTGAGTCCGGTAGCGCTAGCGGATCTGACGGTTCACTAAACCA
GCTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGCCCATTTGCGTCAATGGGGCGGAGTTGTTAC
GACATTTTGGAAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATTTGACGTCAATGGGGTGGAGACT
TGGAAATCCCGTGAGTCAAACCGCTATCCACGCCCATTTGATGTACTGCCAAAACCGCATCACCATGGTA
ATAGCGATGACTAATACGTAGATGTACTGCCAAGTAGGAAAGTCCCATAGGTCATGTACTGGGCATAAT
GCCAGCGGGCCATTTACCGTCATTGACGTCAATAGGGGGGCTACTTGGCATATGATACACTTGATGTAC
TGCCAAGTGGGCAGTTTACCCTAAATACTCCACCCATTGACGTCAATGGAAAGTCCCTATTGGCGTTACT
ATGGGAACATACGTCATTATTGACGTCAATGGGCGGGGGTCTGTTGGGCGGTGAGCCAGGCGGGCCATTTA
CCGTAAGTTATGTAACGCGGAACTCCATATATGGGCTATGAACTAATGACCCCGTAATTGATTACTATTA
CTAGAGTCGGTGGGCTCGGGGGCGGGTGCGGGGTTCGGGGGGCCCGCCCGGGTGGCTTCGGTCCGAGCC

ATGGGGTCGTGCGCTCCTTTTCGGTTCGGGCGCTGCGGGTCGTGGGGCGGGCGTCAGGCACCGGGCTTGCGG
GTCATGCACCAGGTGCGCGGTCTTTCGGGCACCTCGACGTCGGCGGTGACGGTGAAGCCGAGCCGCTCGT
AGAAGGGGAGGTTGCGGGGCGCGGAGGTCTCCAGGAAGGCGGGCACCCCGGCGCGCTCGGCCGCTCCAC
TCCGGGGAGCACGACGGCGCTGCCAGACCCTTGCCTGGTGGTTCGGGCGAGACGCCGACGGTGGCCAGG
AACCACGCGGGCTCCTTGGGCCGGTTCGGGCGCCAGGAGGCCTTCCATCTGTTGCTGCGCGGCCAGCCGGG
AACCGCTCAACTCGGCCATGCGCGGGCCGATCTCGGCGAACACCCGCCCCGCTTCGACGCTCTCCGGCGT
GGTCCAGACCGCCACCGCGGGCGCCGTCGTCGCGGACCCACACCTTGCCTGATGTCGAGCCCAGCGCGGTG
AGGAAGAGTTCTTGCAGCTCGGTGACCCGCTCGATGTGGCGGTCCGGTTCGACGGTGTGGCGCGTGGCGG
GGTAGTCGGCGAACGCGGCGGGCAGGGTTCGCTACGGCCCGGGGACGTCGTCGCGGGTGGCGAGGCGCAC
CGTGGGCTTGTACTCGGTCATGGAAGGTCGTCTCCTTGTGAGGGTTCAGGGGCGTGGGTTCAGGGGATGGT
GGCGGCACCGGTTCGTGGCGGGCCGACCTGCAGCCCGGGGATCATTCGGGCGCCTAGAGAAGGAGTGAGGG
CTGGATAAAGGGAGGATCGAGGCGGGTTCGAACGAGGAGGTTCAAGGGGAGAGACGGGGCGGATGGAGG
AAGAGGAGGCGGAGGCTTAGGGTGTACAAAGGGCTTGACCCAGGGAGGGGGTCAAAGCCAAGGCTTCC
CAGGTCACGATGTAGGGGACCTGGTCTGGGTGTCCATGCGGGCCAGGTGAAAAGACCTTGATCTTAACCT
GGGTGATGAGGTCTCGGTTAAAGGTGCCGTCGCGGCCATCCGACGTTAAAGGTTGGCCATTCTGCAGA
GCAGAAGGTAACCCAACGTCTCTTCTTGACATCTACCGACTGGTGTGAGCGATCCGCTCGACATCTTTC
CAGTGACCTAAGGTCAAACCTAAGGGAGTGGTAACAGTCTGGCCCTAATTTTCAGACAAATACAGAAACA
CAGTCAGACAGAGACAACACAGAACGATGCTGCAGCGCTGCAGCAGACAAGACGCGCGGCTTCGGTTCCA
AACCGAAAGCAAAAATTCAGACGGAGGCGGGAACCTGTTTTAGGTTCTCGTCTCCTACCAGAACCACATAT
CCTGACGGGGTCGGATTCCACATCGACTCCCTTCCCTCAGGTTCGGGCCACAAAACGGCCCCAAAGTCCC
TGGGACGTCCTCCAGGGTTGCGGCCGGGTGTTTCCAGAACTCGTCAGTTCACCACGGGTCCGCCAGATACA
GAGCTAGTTAGCTAACTAGTACAGACGCAGGCGCATAACATCAAACATAGACACTAGACAATCGGACAGA
CACAGATAAGTTGCTGGCCAGCTTACCTCCCGGTGGTGGGTTCGGTGGTCCCTGGGCAGGGGTCTCCAAT
CCCGGACGAGCCCCAAATGAAAGACCCCCGTCGTGGGTAGTCAATCACTCAGAGGAGACCCTCCCAAGG
AACAGCGAGACCACGATTCGGATGCAAACAGCAAGAGGCTTTATTGGGAATACGGGTACCCGGGCGACGC
AGTCTATCGGAAGACTGGCGCGCCGAGTGAGGGGTTGTGGGCTCTTTTATTGAGCTCGGAGAGCGGAAGC
GCGCGAACAGAAGCGAGAAGCGAACTGATTGGTTAGTTCAAATAAGGTACAGGGTCATTTTCAGGTCCTT
GGGGCACCTTGAAAACATCTGATGATTCACTAGAACTGCTGAGGGCTGGACCCGATCTGGGGACCATCT
GTTCTTGGCCCCGAGCCGGGGCAGGAACTGCTTACCACAGATATCCTGTTTGGCCATCACTCAGCTGTC
TCATCTGTTCTTGGCCCTGAGCCGGGGCAGGAACCGCTTACCACAGATATCCTGTTTGGTATTGAGCTGT
TTCTTTGTTCTTGACCTTGATCTGAACTTTTCTATTCTCAGTTATGTATTTTCCATGCCTTGCAAAGTG
GCGTTACTTAAAGCTAGCTTGCCACCTACGGGTGGGGTCTTTCAAAGCAAAGAAAACGGAAGGGCCGCGGC
TTTGGCTCCGGTGAGTGTGGGGAATAGGGTAGAGTGGTCTAAGAGGCAGAAGCCCGCAATTTGGGAGTG
TGAGGGGGACACATTTGGAGGACAGTTTTTCGGTGATCTGGTATGAATTGCTAGCAATTGCTAGCAATTGC
TAGCAATTCTTGAAGACGAAAGGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTATGATAATAATG
GTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTCTAAA
TACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAA
GAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCTTTTTTTCGGCATTTTGCCTTCTGTTTTT
GCTCACCCAGAAACGCTGGTGAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCG
AACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTTCGCCCGAAGAAGCTTTTCCAATGATGAGCAC
TTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTGACGCCGGGCAAGAGCAACTCGGTGCGCCG
ATACACTATTCTCAGAATGACTTGGTTGAGTACTACCAGTCACAGAAAAGCATCTTACGGATGGCATGA
CAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAAC
GATCGGAGGACCGAAGGAGCTAACCCTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGT
TGGGAACCGGAGCTGAATGAAGCCATAACCAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAA
CAACGTTGCGCAAACTATTAAGTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGAT
GGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCGGCTGGCTGGTTTATTGCTGATAAA
TCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTCGAGCACTGGGGCCAGATGGTAAGCCCTCCCGTA
TCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGG
TGCCCTACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAA

CTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAATCCCTTAAC
GTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTT
TCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTGGTTTGTGGCCGGATCAA
GAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCTTCTAG
TGTAGCCGTAGTTAGGCCACCACTTCAAGAAGTCTGTAGCACCGCTACATACTCGCTCTGCTAATCCT
GTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCG
GATAAGGCGCAGCGGTTCGGGCTGAACGGGGGGTTTCGTGCACACAGCCAGCTTGGAGCGAACGACCTACA
CCGAAGTGAATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAG
GTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCCTGGTAT
CTTTATAGTCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGC
GGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCTTGGCCTTTTGCTGGCCTTTTGCTCA
CATGTTCTTTCTGCGTTATCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACC
GCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAG

*Next generation sequencing and *de novo* assembly of plasmid performed by the CCIB DNA Core Facility at Massachusetts General Hospital Boston (MA, USA).