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FIGURES

Figure 1

VL_AB1

DIVMTQTPVSLSVTLGDQASISCRSSQSLEYSDGYTYLEWYLQKPGQSPQLLIYEVS
NRFSGVDPDRFIGSGSGTDFTLKISRVEPEDLGVIYCFQATHNPYTFGAGTKLEIK

IGKV2_29

DIVMTQTPLSLSVTPGQPASISCKSSQSLLHSDGKTYLYWYLQKPGQSPQLLIYEVS
SRFSGVDPDRFIGSGSGTDFTLKISRVEAEDVGVYYCMQGIHLPYTFGQGTKLEIK

gVL3_AB1

DIVMTQTPLSLSVTPGQPASISCRSSQSLEYSDGYTYLEWYLQKPGQSPQLLIYEVS
NRFSGVDPDRFIGSGSGTDFTLKISRVEAEDVGVYYCFQATHNPYTFGQGTKLEIK

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Figure 2

VH_AB1

EVKLEESGPGLMQPSETLSLTCTVSGFSLTSNDIAWVRQPLGKGLVWMGTIWTDGSTNYN
SAVQSRLSISRDTSKSQFFLKMNSLQPEDTGTYTCARHRLYYGAFDYWGQGMVTVSS

IGHV4-59

QVQLQESGPGLVKLPSETLSLTCTVSGGSISSYYWSWIRQPPGKGLEWIGYIYYSGSTNYN
PSLKSRVTISVDTSKNQFSLKLSSVTAADTAVYYCAR-----DAFDVWGQGMVTVSS

|

gVH17_AB1

EVQLQESGPGLVKLPSETLSLTCTVSGFSLTSNDIAWIRQPPGKGLEWMGTIWTDGSTNYN
AAVQSRVTISVDTSKNQFSLKLSSVTAADTAVYYCARHRLYYGAFDYWGQGMVTVSS

gVH18_AB1

EVQLQESGPGLVKLPSETLSLTCTVSGFSLTSNDIAWIRQPPGKGLEWMGTIWTDGSTNYN
TAVQSRVTISVDTSKNQFSLKLSSVTAADTAVYYCARHRLYYGAFDYWGQGMVTVSS

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Figure 3

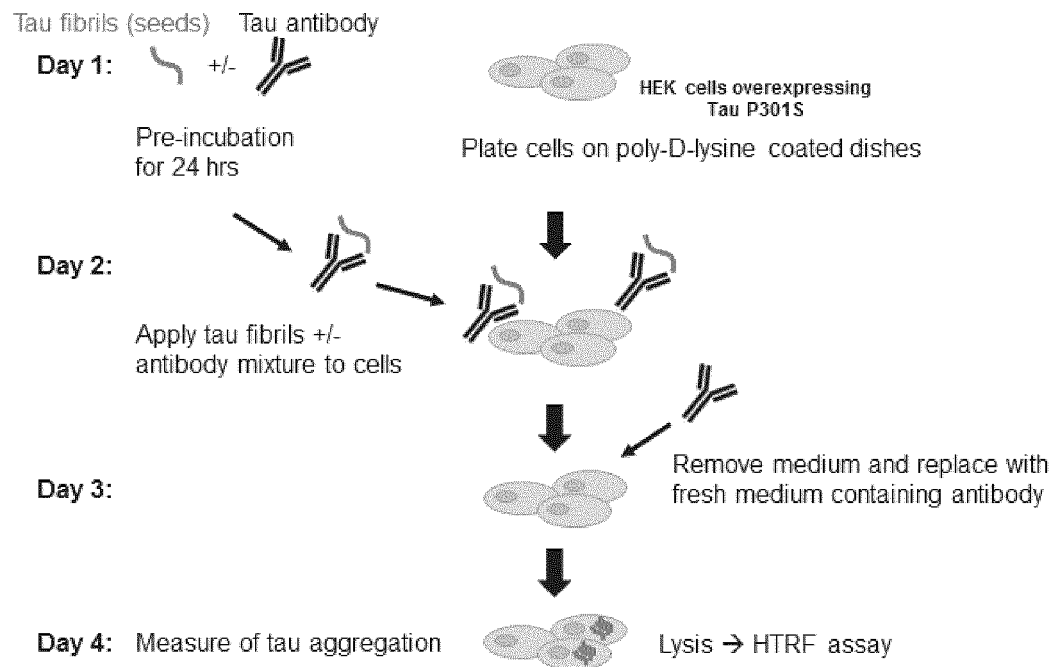
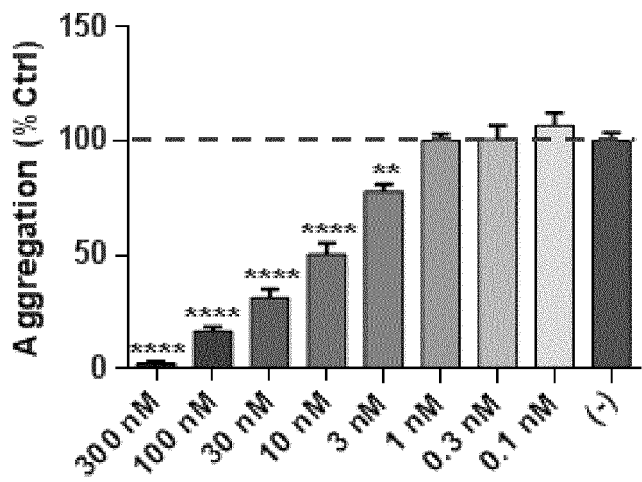
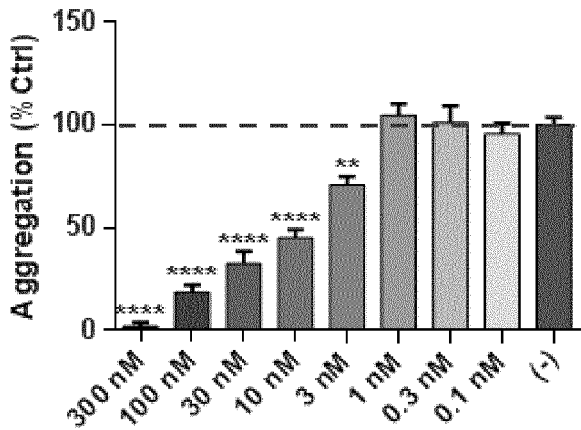


Figure 4

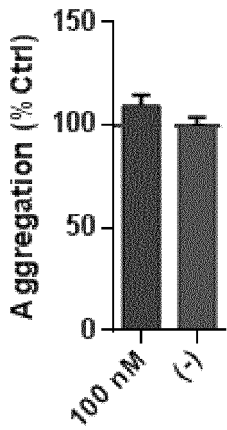
A



B



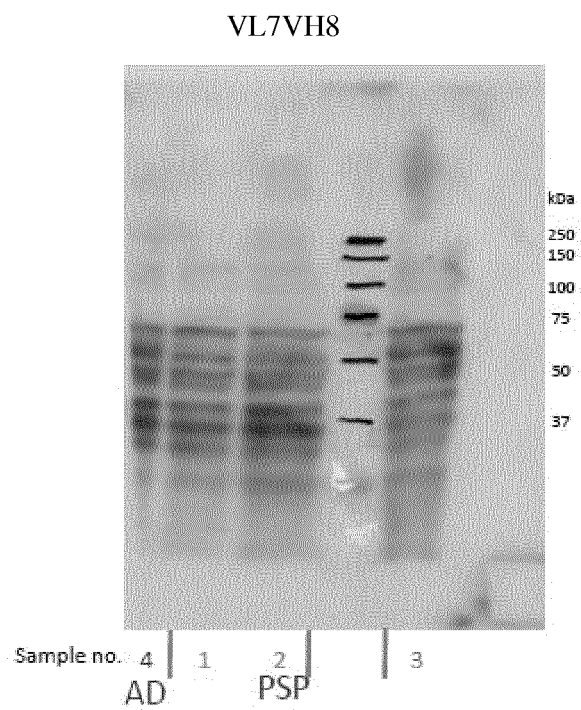
C



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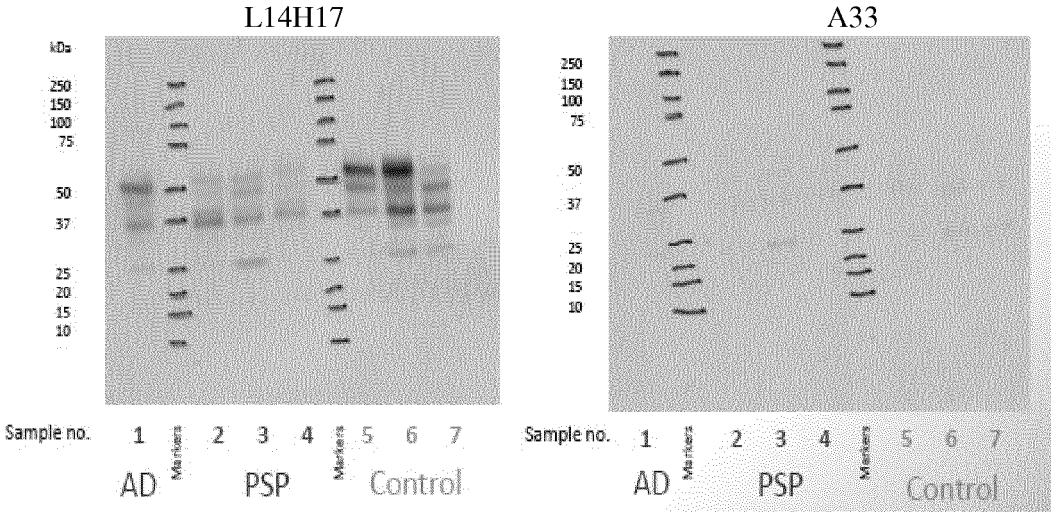
Figure 5

A)

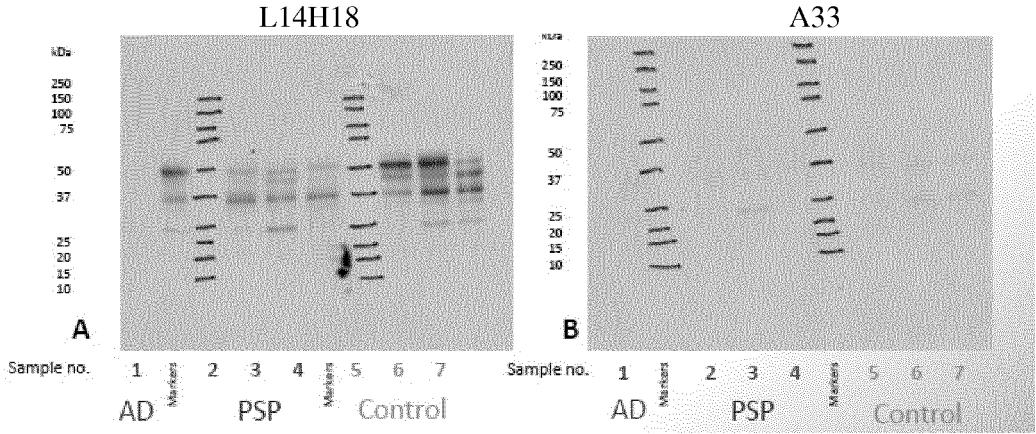


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B)



C)



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Figure 6

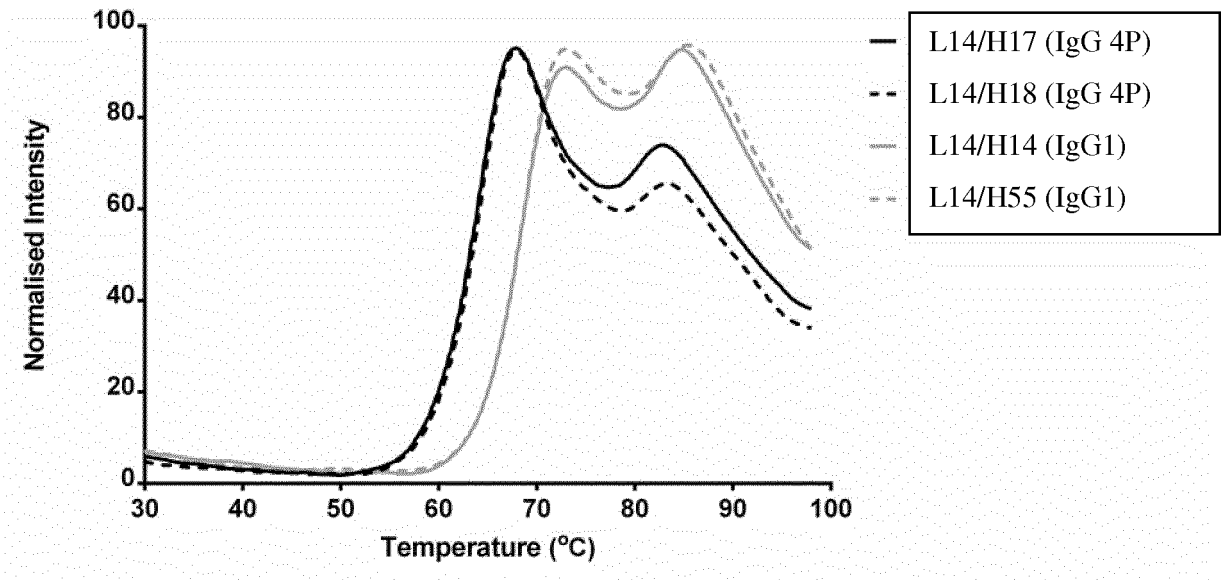


Figure 7

DNA construct encoding human Tau isoform 2 for E. coli expression (pET 6His TEV-hTau iso 2 (1-441)) (SEQ ID No.:39)

TGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGA
CCGCTACACTTGCCAGCGCCCTAGCGCCGCTCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTT
GCCGGCTTTCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCGATTTAGTGCTTTACGGCA
CCTCGACCCCAAAAACTTGATTAGGGTGATGGTTACAGTAGTGGGCCATCGCCCTGATAGACGGTTT
TTCGCCCTTTGACGTTGGAGTCCACGTTCTTAAATAGTGGACTCTTGTTCAAACTGGAACAACACTC
AACCCTATCTCGGTCTATTCTTTTGATTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAA
TGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAAATATTAACTTTTACAATTTTCAGGTGGCA
CTTTTCGGGGAATGTGCGCGGAACCCCTATTTGTTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACA
TTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCTTCCTGTTTTTGCTCACCCAGAAACGC
TGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAAGTGGATCTCAAC
AGCGGTAAAGATCCTTGAGAGTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCT
GCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTTCGCCGCATACACTATT
CTCAGAAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGA
GAATTATGCAAGTGTGCTGACATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGG
AGGACCGAAGGAGCTAACCCTTTTTTGACAAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGG
AACCAGGAGCTGAATGAAGCCATACCAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACA
ACGTTGCGCAAACTATTAACGCGCAACTACTTACTCTAGCTTCCCGCAACAATTAATAGACTGGAT
GGAGGCGGATAAAGTTGACAGGACACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATA
AATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCC
CGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGA
GATAGGTGCCCTCACTGATTAAGCATTGGTAAGTGTGACACCAAGTTTACTCATATATACCTTTAGATTG
ATTTAAACTTCATTTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAA
ATCCCTTAACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTG
AGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACACCCGCTACCAGCGGTGGTTT
GTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCA
AATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCTGTCTTACCGGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTTCGGGCTGAACGGGGGGTTCGTGCACACAGCCC
AGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCT
TCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGG
AGCTTCCAGGGGGAAACGCTTGGTATCTTTATAGTCTGTGCGGTTTCGCCACCTCTGACTTGAGCGT
CGATTTTTGTGATGCTGCTCAGGGGGCGGAGCCTATGGAACACGCCAGCAACGCGGCCCTTTTTACG
GTTCTTGCCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCTGATTCTGTGGATA
ACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGACGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTTACA
CCGCATATATGGTGCACCTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCG
CTATCGCTACGTGACTGGGTGATGGCTGCGCCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACG
GGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGAGA
GGTTTTACCGTCATACCGAAACGCGCGAGGCAGCTGCGGTAAAGCTCATCAGCGTGGTCTGTGAAGC
GATTCACAGATGTCTGCCTGTTTATCCGCTCCAGCTCGTTGAGTTTCTCCAGAACGCTTAATGTCTG
GCTTCTGATAAAGCGGGCATGTTAAGGCGGTTTTTTCTGTTTGGTCACTGATGCCTCCGTGTAAG
GGGGATTTCTGTTTATGGGGTAATGATACCGATGAAACGAGAGAGGATGCTCAGGATACGGGTTACT
GATGATGAACATGCCCGGTTACTGGAACGTTGTGAGGGTAAACAACGCGGTATGGATGCGGCGGGA
CCAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTA
GCCAGCAGCATCCTGCGATGCAGATCCGGAACATAATGGTGCAGGGCGCTGACTTCCGCGTTTTCCAGA
CTTTACGAAACACGGAACCGAAGACCATTCATGTTGTTGCTCAGGTGCGAGACGTTTTGCGAGCGCA
GTCGCTTACGTTTCGCTCGCGTATCGGTGATTCTGCTAACCAGTAAGGCAACCCCGCCAGCCTA
GCCGGTCTTCAACGACAGGAGCAGATCATGCGCACCCGTGGGGCCGCCATGCCGGCGATAATGGCC
TGCTTCTCGCCGAAACGTTTTGGTGGCGGGACAGTGACGAAGGCTTGAGCGAGGGCGTGCAAGATTCC

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GAATACCGCAAGCGACAGGCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCTCTCGCCGAAAATGACCC
AGAGCGCTGCCGGCACCTGTCTTACGAGTTGCATGATAAAGAAGACAGTCATAAGTGCGGCGACGATA
GTCATGCCCGCGCCACCAGGAAGGAGCTGACTGGGTTGAAGGCTCTCAAGGGCATCGGTTCGAGATCC
CGGTGCTTAATGAGTGAGCTAACTTACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAA
ACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGCTATTGGGCGC
CAGGGTGGTTTTTCTTTTACCAGTGAGACGGGCAACAGCTGATTGCCCTTACCAGCTGGCCCTGAG
AGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAAC
GGCGGGATATAACATGAGCTGTCTTCGGTATCGTTCGTATCCCACTACCGAGATGTCCGCACCAACGCG
CAGCCCGGACTCGGTAATGGCGCGCATTGCGCCAGCGCCATCTGATCGTTGGCAACCAGCATCGCAG
TGGGAACGATGCCCTCATTACGATTTGCATGGTTTGTGAAAACCGGACATGGCACTCCAGTCGCCCT
TCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAGCCAGACGACGACG
CGCCGAGACAGAACTTAATGGGCCCGCTAACAGCGCGATTTGCTGGTGACCCAATGCGACCATGCT
CCACGCCCCAGTCGCGTACCGTCTTTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGGTCAGAGACA
TCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGG
ATAGTTAATGATCAGCCCACTGACGCGTTGCGCGAGAAGATTGTGCACCGCGCTTTACAGGCTTCGA
CGCCGCTTCGTTCTACCATCGACACCACGCTGGCAGCCAGTTGATCGGCGCGAGATTTAATCGCC
GCGACAATTTGCGACGGCGCGTGCAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTT
GCCCCGCGAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGCCGCTTCCACTTTTT
CCCGCGTTTTTCGAGAAACGTGGCTGGCTGGTTTACCACGCGGGAAACGGTCTGATAAGAGACACCG
GCATACCTGCGACATCGTATAACGTTACTGGTTTACATTTACCACCTGAATTAAGTCTCTTCCGG
GCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTTCGATGGTGTCCGGGATCTCGACGCTCTCCC
TTATGCGACTCCTGCATTAGGAAGCAGCCAGTAGTAGGTTGAGGCCGTTGAGCACCAGCCGCGCAAG
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CGAAACAAGCGCTCATGAGCCCGAAGTGGCGAGCCCGATCTTCCCCATCGGTGATGTGCGCGATATAG
GCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGCGCACGATGCGTCCGGCGTAGAGGATCGAGAT
CGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTC
TAGAAATAATTTGTTTAACTTTAAGAAGGAGATATACATATGGGCTCAAGCCACCACCACCACCACC
ACAGCAGCGGCGAGAACTTGTACTTTCAAGGATCCGCAGAACCACGTCAAGAAATTTGAGGTTATGGAA
GATCAGCGGGCACTTACGGTTTGGGTGATCGTAAAGACCAGGGCGGCTATACCATTGATCAAGATCA
AGAGGGCGACACCGATGCTGGCTTGAAAGAGTCGCGGCTGCAGACTCCGACCGAGGATGGCAGCGAAG
AGCCGGGCGAGAGACTAGCGATGCGAAGTCGACCCCGACCGCGAGGACGTTACCGCACCGCTGGTC
GACGAGGGTGCTCCGGGTAAACAGGCGGCTGCACAGCCGCACACGGAGATTCCGGAAGGCACCACCGC
AGAAGAGGGGGTATCGGCGACACTCCGTCCCTGGAAGATGAGGCAGCCGGTCATGTCACGCAGGCGC
GTATGGTGAGCAAGAGCAAGATGGTACGGGTAGCGACGACAAGAAGGCGAAGGGCGCAGATGGCAAG
ACCAAAATTCGACGCGCGGTGGTGCGGCACCGCCAGGCCAGAAAGGTCAGGCGAATGCCACGCGCAT
CCCGGCAAGACGCCACCGGCTCCGAAAACCCCGCCTTCCAGCGGTGAACCGCGAAATCCGGTGACC
GCAGCGGTTATAGCTCTCCGGGTAGCCCGGTACCCAGGCAGCCGTAGCCGCACCCGAGCCTGCCG
ACCCACCGACCCGCGAGCCGAAGAAAGTGGCGGTGGTTTCGTACGCGGCCAAAAAGCCCGAGCTCTGC
CAAGAGCCGTCTGCAAAACCGCTCCTGTGCCGATGCCGGACCTGAAGAACGTTAAGTCTAAAATCGGTA
GCACCGAAAATCTGAAGCACCACCTGGTGGCGGTAAGGTTCAAATCATCAACAAAAGCTGGACTTG
AGCAATGTACAAAGCAAGTGTGGTAGCAAGGACAATATCAAACACGTCCCGGGTGGTGGTTCCGTCCA
GATTGTGTACAAACCGGTGGACCTGAGCAAGGTTACCAGCAAATGCGGTTCCCTGGGTAACATCCATC
ATAAACCGGGTGGCGGCCAAGTTGAGGTCAAGAGCGAGAACTGGACTTCAAAGACCGCGTTCAGTCC
AAAATCGGTTCTCTGGACAACATTACGCACGTGCCTGGTGGTGGCAACAAGAAGATTGAAACCCATAA
ACTGACGTTTCGTGAAAATGCGAAGGCGAAAACCGACACGGCGCAGAGATTGTCTACAAAAGCCCGG
TGGTGAGCGGTGATACCAGCCCGGTCACCTGTCCAACGTGAGCAGCACGGGCAGCATTGATATGGTG
GATAGCCCGCAGTTGGCTACGCTGGCCGATGAGGTTAGCGCGAGCCTGGCGAAGCAGGGTCTGTGAC
CGAGCACCACCACCACCACCTGAGATCCGGCTGCTAACAAAGCCCGAAAGGAGCTGAGTTGGCTG
CTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCTCTAAACGGGTCTTGAGGGTTTTTTG
CTGAAAGGAGGAATAATATCCGGAT

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Figure 8

A)

expressed sequence of pET 6His-TEV-hTau iso2 (1-441), incorporating
6His tag-TEV site (SEQ ID No.: 40)

MGSSHHHHHHSSGENLYFQGSAPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGL
KESPLQTP TEDGSEEPGSETSDAKSTPTAEDVTAPLVDEGAPGKQAAQPHTEIPEGTTAEAA
GIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPQKGQANAT
RIPAKTPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTP
PKSPSSAKSRLQTAPVPMPLKNNVSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKD
NIKHVPGGG SVQIVYKPV DLSKVT SKCGSLGNIHHKPGGGQVEVKSEKLD FKDRVQSKIGSLD
NITHVPGGGNKKIETHKLTFR ENAKAKTDHGAEIVYKSPVVS GDTSPRHL SNVSSTGSIDMVD
SPQLATLADEV SASLAKQGL

B)

Final expressed sequence from pET 6His-TEV-hTau iso2 (1-441) after
TEV cleavage (SEQ ID No.: 41)

GSAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQTP TEDGSEEPGSE
TSDAKSTPTAEDVTAPLVDEGAPGKQAAQPHTEIPEGTTAEAA GIGDTPSLEDEAAGHVTQA
RMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPQKGQANATRIPAKTPPAPKTPPSSGEPP
KSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVPMPL
DLKNNVSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGG SVQIVYKPV
LSKVT SKCGSLGNIHHKPGGGQVEVKSEKLD FKDRVQSKIGSLDNI THVPGGGNKKIETHKLT
FR ENAKAKTDHGAEIVYKSPVVS GDTSPRHL SNVSSTGSIDMVDSPQLATLADEV SASLAKQGL

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Figure 9

DNA construct encoding human Tau isoform 3 for E. coli expression (pET 6His TEV-hTau iso 3 (1-383)) (SEQ ID No.:42).

TGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGA
CCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTT
GCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCA
CCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTT
TTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCAAACTGGAACAACACTC
AACCCATATCTCGGTCATTCTTTTGATTATAAGGGATTTTGGCGATTTCGGCCTATTGGTTAAAAA
TGAGCTGATTTAACAAAAATTTAACGCGAATTTTAAACAAAAATATTAAACGTTTACAATTTACGGTGGCA
CTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACA
TTTCCGTGTCGCCCTTATTCCCTTTTTTGGCGCATTTTGCTTCCTGTTTTTGCTCAGCCAGAAACGC
TGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAAC
AGCGGTAAGATCCTTGAGAGTTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCT
GCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATT
CTCAGAATGACTTGGTTGAGTACTCACCAGTACAGAAAAAGCATCTTACGGATGGCATGACAGTAAGA
GAATTATGCACTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCCG
AGGACCGAAGGAGCTAACCGCTTTTTTGCAACAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGG
AACCGGAGCTGAATGAAGCCATACCAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACA
ACGTTGCGCAAACTATTAACGGCGAACTACTTACTCTAGCTTCCCGCAACAATTAATAGACTGGAT
GGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTTATTGCTGATA
AATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCC
CGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGA
GATAGTGCCTCACTGATTAAGCATTGGTAACGTGCAGACCAAGTTTACTCATATATACTTTAGATTG
ATTTAAAACTTCATTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAA
ATCCCTTAACGTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTG
AGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACCCACCGCTACCAGCGGTGGTTT
GTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACGGCTTCAGCAGAGCGCAGATACCA
AATACTGTCCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGCTTACCAGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCTGGGCTGAACGGGGGGTTCGTGCACACAGCCC
AGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCT
TCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGG
AGCTTCCAGGGGAAACGCCCTGGTATCTTTATAGTCTGTGCGGTTTCGCCACCTCTGACTTGAGCGT
CGATTTTTGTGATGCTCGTCAGGGGGGCGAGCCATGGAAAAACGCCAGCAACCGCGCCTTTTTACG
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ACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGACGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTACA
CCGCATATATGGTGCACCTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCG
CTATCGCTACGTGACTGGGTCTATGGCTGCGCCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACG
GGCTTGCTGCTCCCGGCATCCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGCTAGA
GGTTTTACCGTCATCACCGAAACGCGCGAGGCACTGCGGTAAGCTCATCAGCGTGGTCTGTAAGC
GATTACAGATGCTGCTGCTGTTTATCCGCGTCCAGCTCGTTGAGTTTCTCCAGAAGCGTTAATGTCTG
GCTTCTGATAAAGCGGGCCATGTTAAGGGCGGTTTTTTCTGTTTGGTCACTGATGCCCTCCGTGTAAG
GGGGATTTCTGTTTATGGGGTAATGATACCGATGAAACGAGAGAGGATGCTCACGATACGGGTACT
GATGATGAACATGCCCGGTTACTGGAACGTTGTGAGGGTAAACAACCTGGCGGTATGGATGCGGCGGGA
CCAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTA
GCCAGCAGCATCCTGCGATGAGATCCGAACATAATGGTGCAGGGCGCTGACTTCCGCGTTTTCCAGA
CTTTACGAAACACGGAAACCGAAGACCATTCATGTTGTTGCTCAGGTGCGCAGACGTTTTGACGACGA
GTCGCTTACGTTGCTGCGTATCGGTGATTCTGCTAACCAGTAAGGCAACCCCGCCAGCCTA
GCCGGTCTTCAACGACAGGAGCAGATCATGCGCACCCGTGGGGCCGCAATGCCGCGGATAATGGCC
TGCTTCTCGCGAAACGTTTTGGTGGCGGACAGTACGAAAGGCTTGAGCGAGGGCGTCAAGATTCC
GAATACCGCAAGCGACAGGCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCTTCGCCGAAATGACCC
AGAGCGCTGCCGGCACCTGTCTACGAGTTGCATGATAAAGAAGACAGTCATAAGTGGCGGACGATA

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GTCATGCCCCGCGCCACCGGAAGGAGCTGACTGGGTTGAAGGCTCTCAAGGGCATCGGTTCGAGATCC
CGGTGCCATAATGAGTGAGCTAAGTTACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAA
ACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGCGGTTTGCGTATTGGGCGC
CAGGGTGGTTTTCTTTTACCAGTGAGACGGGCAACAGCTGATTGCCCTTACCAGCTGGCCCTGAG
AGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAACTCTGTTTGATGGTGGTTAAC
GGCGGGATATAACATGAGCTGTCTTCGGTATCGTCGTATCCCACTACCGAGATGTCCGCACCAACGCG
CAGCCCGGACTCGGTAATGGCGCGCATTTGCGCCAGCGCCATCTGATCGTTGGCAACCAGCATCGCAG
TGGGAACGATGCCCTCATTACGATTTGCGTGGTTTGTGAAAACCGGACATGGCACTCCAGTCGCCCT
TCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAGCCAGACGCAGACG
CGCCGAGACAGAACTTAATGGGCCCGCTAACAGCGCGATTGCTGGTGACCAATGCGACCAGATGCT
CCACGCCCAGTCGCGTACCGTCTTCATGGGAGAAAAATAACTGTTGATGGGTGTCTGGTCAGAGACA
TCAAGAAAATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGG
ATAGTTAATGATCAGCCCACTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCGA
CGCCGCTTCGTTCTACCATCGACACCACACGCTGGCACCCAGTTGATCGGCGCGAGATTTAATCGCC
GCGACAATTTGCGACGGCGCGTGCAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTT
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CCCGCGTTTTTCGCAGAAACGTGGCTGGCTGGTTTACCACGCGGGAAACGGTCTGTATAAGAGACACCG
GCATACTCTGCGACATCGTATAACGTTACTGGTTTACATTACCAACCTGAATTGACTCTCTTCCGG
GCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTTCGATGGTGTCCGGGATCTCGACGCTCTCCC
TTATGCGACTCCTGCATTAGGAAGCAGCCAGTAGTAGTTGAGGCCGTTGAGCACCGCCGCGCAAG
GAATGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGGCTTGCCACCATACCACGC
CGAAACAAGCGCTCATGAGCCCGAAGTGCGGAGCCCGATCTTCCCCATCGGTGATGTGCGCGATATAG
GCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCGAGAT
CGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTTCCCTC
TAGAAATAATTTGTTTAACTTTAAGAAGGAGATATACAT**ATGGGGCTCAAGCCACCACCACCACCACC**
ACAGCAGCGCGGAGAACTTGTACTTTCAAGGATCCGCAGAACCACGTCAAGAATTTGAGGTTATGGAA
GATCACGCGGGCACTTACGGTTTGGGTGATCGTAAAGACCAGGGCGGCTATACCATGCATCAAGATCA
AGAGGGCGACACCGATGCTGGCTTGAAAGCAGAAGAGGGCGGATATCGGCGACACTCCGTCCCTGGAAG
ATGAGGCAGCCGGTCATGTACGCGAGGCGCGTATGGTGAGCAAGAGCAAGATGGTACGGGTAGCGAC
GACAAGAAGGCGAAGGGCGCAGATGGCAAGACCAAAATTGCGACGCCGCGTGGTGCGGCACCGCCAGG
CCAGAAAGGTCAGGCGAATGCCACGCGCATCCCGGCAAGACGCCACCGGCTCCGAAAACCCGCGCTT
CCAGCGGTGAACCGCCGAAATCCGGTGACCGCAGCGGTTATAGCTCTCCGGGTAGCCCGGGTACCCCA
GGCAGCCGTAGCCGCACCCCGAGCCTGCCGACCCACCGACCCGCGAGCCGAAGAAAGTGGCGGTGGT
TCGTACGCCGCCAAAAAGCCGAGCTCTGCCAAGAGCCGTCTGCAAACCGCTCCTGTGCCGATGCCGG
ACCTGAAGAACGTTAAGTCTAAATTCGGTAGCACCGAAAAATCTGAAGCACCAACCTGGTGGCGGTAAG
GTTCAAATCATCAACAAAAAGCTGGACTTGAGCAATGTACAAAGCAAGTGTGGTAGCAAGGACAATAT
CAAACACGTCCCGGGTGGTGGTTCCGTCCAGATTGTGTACAAACCGGTGGACCTGAGCAAGGTTACCA
GCAAATGCGGTTCCCTGGGTAAACATCCATCATAAACCGGGTGGCGGCCAAGTTGAGGTCAAGAGCGAG
AAACTGGACTTCAAAGACCGGTTCAAGTCCAAAAATCGGTTCTCTGGACAACATTACGCACGTGCCTGG
TGGTGGCAACAAGAAGATTGAAACCCATAAACTGACGTTTTCGTGAAAATGCGAAGGCGAAAACCGACC
ACGGCGCAGAGATTGTCTACAAAAGCCCGGTGGTGAGCGGTGATACCAGCCCGCGTCACCTGTCCAAC
GTCAGCAGCACGGGCAGCATTGATATGGTGGATAGCCCGAGTTGGCTACGCTGGCCGATGAGGTTAG
CGCGAGCCTGGCGAAGCAGGGTCTGTGACTCGAGCACCAACCACCACCACCTGAGATCCGGCTGCTA
ACAAAGCCCCGAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGG
GCCTCTAAACGGGCTTTGAGGGGTTTTTGTGAAAGGAGGAACATATATCCGGAT

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Figure 10

A)

Expressed sequence of pET 6His-TEV-hTau iso3 (1-383), incorporating
6His tag-TEV site (SEQ ID No.: 43)

MGSSHHHHHHSSGENLYFQGSAPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKAE EA
GIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAK
TPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSR
LQTAPVPM PDLKNVSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGG SVQIVY
KPVDSLKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLT F
RENAKAKTDHGAEIVYKSPVVS GDTSPRHLSNV SSTGSIDMVDSPQLATLADEV SASLAKQGL

B)

Final sequence of pET 6His-TEV-hTau iso3 (1-383) after TEV cleavage
(SEQ ID No.: 44):

GSAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKAE EAGIGDTPSLEDEAAGHVTQA
RMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSGEPPKSGD
RSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVPM PDLKNVSKIG
STENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGG SVQIVYKPVDSLKVTSKCGSLGNIH
HKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLT FRENAKAKTDHGAEIVYKSP
VVS GDTSPRHLSNV SSTGSIDMVDSPQLATLADEV SASLAKQGL

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Figure 11

DNA construct encoding human Tau isoform 4 for E. coli expression (pET 6His TEV-hTau iso 4 (1-352)) (SEQ ID No.:45).

TGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGA
CCGCTACACTTGCCAGCGCCCTAGCGCCGCTCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTT
GCCGGCTTTCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCGATTAGTGCTTTACGGCA
CCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTT
TTCGCCCTTTGACGTTGGAGTCCACGTTCTTAAATAGTGGACTCTTGTTCAAACTGGAACAACACTC
AACCCTATCTCGGTCTATTCTTTTGATTATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAA
TGAGCTGATTTAACAAAAATTTAACGCGAATTTTAACAAAAATATTAACTTTTACAATTTTCAGGTGGCA
CTTTTCGGGGAATGTGCGCGGAACCCCTATTTGTTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACA
TTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCTTCCTGTTTTTGCTCACCCAGAAACGC
TGGTGAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAAGTGGATCTCAAC
AGCGGTAAAGTCCCTTGAGAGTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCT
GCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTTCGCCGCATACACTATT
CTCAGAAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGA
GAATTATGCACTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGG
AGGACCGAAGGAGCTAACCCTTTTTTGCAACATGCGGGATCATGTAACTCGCCTTGATCGTTGGG
AACCAGGAGCTGAATGAAGCCATACCAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACA
ACGTTGCGCAAACTATTAACGCGAACTACTTACTCTAGCTTCCCGCAACAATTAATAGACTGGAT
GGAGGCGGATAAAGTTGACAGGACACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATA
AATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCC
CGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGA
GATAGGTGCCCTCACTGATTAAGCATTGGTAAGTGTGACACCAAGTTTACTCATATATACTTTAGATTG
ATTTAAACTTCATTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAA
ATCCCTTAACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTG
AGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACACCGCTACCAGCGGTGGTTT
GTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCA
AATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCTGTCTTACCGGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTTCGGGCTGAACGGGGGGTTCGTGCACACAGCCC
AGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCT
TCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGG
AGCTTCCAGGGGGAAACGCTTGGTATCTTTATAGTCTGTGCGGTTTCGCCACCTCTGACTTGAGCGT
CGATTTTTGTGATGCTGCTCAGGGGGCGGAGCCTATGGAACACGCCAGCAACGCGGCCCTTTTTACG
GTTCTTGCCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCTGATTCTGTGGATA
ACCGTATTACCGCTTTGAGTGAGCTGATACCGCTCGCCGACGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTTACA
CCGCATATATGGTGCACCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCG
CTATCGCTACGTGACTGGGTGATGGCTGCGCCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACG
GGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGAGA
GGTTTTACCGTCATCACCGAAACGCGCGAGGCAGCTGCGGTAAAGCTCATCAGCGTGGTCTGTAAGC
GATTCACAGATGTCTGCCTGTTTCATCCGCTCCAGCTCGTTGAGTTTCTCCAGAACGCTTAATGTCTG
GCTTCTGATAAAGCGGGCATGTTAAGGCGGTTTTTTCTGTTTGGTCACTGATGCCTCCGTGTAAG
GGGGATTTCTGTTTATGCGGGTAATGATACCGATGAAACGAGAGAGGATGCTCACGATACGGGTTACT
GATGATGAACATGCCCGGTTACTGGAACGTTGTGAGGGTAAACAACGCGGTATGGATGCGGCGGGA
CCAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTA
GCCAGCAGCATCCTGCGATGCAGATCCGGAACATAATGGTGCAGGGCGCTGACTTCCGCGTTTTCCAGA
CTTTACGAAACACGGAACCGAAGACCATTCATGTTGTTGCTCAGGTGCGAGACGTTTTGCGAGCGCA
GTCGCTTACGTTGCTGCGTATCGGTGATTCTGCTAACCAGTAAGGCAACCCCGCCAGCCTA
GCCGGTCTTCAACGACAGGAGCAGATCATGCGCACCCGTGGGGCCGCCATGCCGGCGATAATGGCC
TGCTTCTCGCCGAAACGTTTTGGTGGCGGGACAGTGACGAAGGCTTGAGCGAGGGCGTGCAAGATTCC

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GAATACCGCAAGCGACAGGCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCTCTCGCCGAAAATGACCC
AGAGCGCTGCCGGCACCTGTCTTACGAGTTGCATGATAAAGAAGACAGTCATAAGTGCGGCGACGATA
GTCATGCCCCGCGCCACCGGAAGGAGCTGACTGGGTTGAAGGCTCTCAAGGGCATCGGTTCGAGATCC
CGGTGCCTAATGAGTGAGCTAACTTACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAA
ACCTGTCTGTCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCATATTGGGCGC
CAGGGTGGTTTTCTTTTACCAGTGAGACGGGCAACAGCTGATTGCCCTTACCAGCTGGCCCTGAG
AGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAAC
GGCGGGATATAACATGAGCTGTCTTCGGTATCGTTCGTATCCCACTACCGAGATGTCCGCACCAACGCG
CAGCCCGGACTCGGTAATGGCGCGCATTGCGCCCAGCGCCATCTGATCGTTGGCAACCAGCATCGCAG
TGGGAACGATGCCCTCATTACGATTTGCATGGTTTGTGAAAACCGGACATGGCACTCCAGTCGCCCT
TCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAGCCAGACGACGACG
CGCCGAGACAGAACTTAATGGGCCCGCTAACAGCGCGATTTGCTGGTGACCCAATGCGACCAAGATGCT
CCACGCCCCAGTCGCGTACCGTCTTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGGTCAGAGACA
TCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGG
ATAGTTAATGATCAGCCCACTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCGA
CGCCGCTTCGTTCTACCATCGACACCACGCTGGCACCAGTTGATCGGCGCGAGATTTAATCGCC
GCGACAATTTGCGACGGCGCGTGCAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTT
GCCCCGCGAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGCCGCTTCCACTTTTT
CCCGCGTTTTTCGAGAAACGTGGCTGGCTGGTTTACCACGCGGGAAACGGTCTGATAAGAGACACCG
GCATACCTGCGACATCGTATAACGTTACTGGTTTACATTTACCACCTGAATTGACTCTCTTCCGG
GCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTTCGATGGTGTCCGGGATCTCGACGCTCTCCC
TTATGCGACTCCTGCATTAGGAAGCAGCCAGTAGTAGGTTGAGGCCGTTGAGCACCGCCGCCGCAAG
GAATGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGGCTGCCACCATACCACGCG
CGAAACAAGCGCTCATGAGCCCGAAGTGGCGAGCCCGATCTTCCCCATCGGTGATGTGCGCGATATAG
GCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCGAGAT
CGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTC
TAGAAATAATTTGTTTAACTTTAAGAAGGAGATATACAT**ATGGGCTCAAGCCACCACCACCACCACC**
ACAGCAGCGGCGAGAACTTGTA**CTTTCAAGGATCCGCAGAACCACGTCAAGAATTTGAGGTTATGGAA**
GATCACGCGGGCACTTACGGTTTGGGTGATCGTAAAGACCAGGGCGGCTATACCATGCATCAAGATCA
AGAGGGCGACACCGATGCTGGCTTGAAAGCAGAAGAGGCGGGTATCGGCGACACTCCGTCCCTGGAAG
ATGAGGCAGCCGGTCATGTCACGCAGGCGGTATGGTGAGCAAGAGCAAAGATGGTACGGGTAGCGAC
GACAAGAAGGCGAAGGGCGCAGATGGCAAGACCAAAATTGCGACGCCGCGTGGTGCGGCACCGCCAGG
CCAGAAAGGTCAGGCGAATGCCACGCGCATCCCGGCAAGACGCCACCGGCTCCGAAAACCCGCGCTT
CCAGCGGTGAACCGCCGAAATCCGGTGACCGCAGCGGTTATAGCTCTCCGGGTAGCCCGGGTACCCCA
GGCAGCCGTAGCCGCACCCCGAGCCTGCCGACCCCAACCGACCCGCGAGCCGAAGAAAGTGGCGGTGGT
TCGTACGCCGCCAAAAAGCCGAGCTCTGCCAAGAGCCGTCTGCAAACCGCTCCTGTGCCGATGCCGG
ACCTGAAGAACGTTAAGTCTAAATCGGTAGCACCGAAAACTGTAAGCACCAACCTGGTGGCGGTAA
GTCCAGATTGTGTACAAACCGGTGGACCTGAGCAAGGTTACCAGCAAATGCGGTTCCCTGGGTAACAT
CCATCATAAACCGGGTGGCGGCCAAGTTGAGGTCAAGAGCGAGAACTGGACTTCAAAGACCGCGTTC
AGTCCAAATCGGTTCTCTGGACAACATTACGCACGTGCCTGGTGGTGGCAACAAGAAGATTGAAACC
CATAAACTGACGTTTCGTGAAAATGCGAAGGCGAAAACCGACCACGGCGCAGAGATTGTCTACAAAAG
CCCGGTGGTGAGCGGTGATACCAGCCCGGTACCTGTCCAACGTCAGCAGCACGGGCAGCATTGATA
TGGTGGATAGCCCGAGTTGGCTACGCTGGCCGATGAGGTTAGCGCGAGCCTGGCGAAGCAGGGTCTG
TGACTCGAGCACCAACCACCACCACCTGAGATCCGGCTGCTAACAAAGCCCCGAAAGGAAGCTGAGTT
GGCTGCTGCCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTT
TTTTGCTGAAAGGAGGAACATATATCCGGAT

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Figure 12

A) Expressed amino acid sequence of pET 6His-TEV-hTau iso4(1-352), incorporating 6His tag-TEV site – hTau (1-352) (SEQ ID No.: 46)

MGSSHHHHHHSSGENLYFQGSAPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKAE EA
GIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPQKGQANATRIPAK
TPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSR
LQTAPVPM PDLKNVSKIGSTENLKHQPGGGKVQIVYKPV DLSKVTSKCGSLGNIHHKPGGGQVEVKS
EKLD FKDRVQSKIGSLDNI THVPGGGNKKIETHKLT FRENAKAKTDHGAEIVYKSPVVS GDTSPRHLS
NVSS TGSIDMVDSPQLATLADEV SASLAKQGL

B) Final sequence of pET 6His-TEV-hTau iso4(1-352) after TEV cleavage (SEQ ID No.: 47)

GSAEP RQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKAE EAGIGDTPSLEDEAAGHVTQA
RMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPQKGQANATRIPAKTPPAPKTPPSSGEPPKSGD
RSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVPM PDLKNVSKIG
STENLKHQPGGGKVQIVYKPV DLSKVTSKCGSLGNIHHKPGGGQVEV KSEKLD FKDRVQSKIGSLDNI
THVPGGGNKKIETHKLT FRENAKAKTDHGAEIVYKSPVVS GDTSPRHLSNVSS TGSIDMVDSPQLATL
ADEVSASLAKQGL

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Figure 13

DNA construct encoding human Tau isoform 5 for E. coli expression (pET 6His TEV-hTau iso 5 (1-412)) (SEQ ID No.:48).

TGGCGAATGGGACGCGCCCTGTAGCGGCGCATTAAAGCGCGGCGGGTGTGGTGGTTACGCGCAGCGTGA
CCGCTACACTTGCCAGCGCCCTAGCGCCGCTCCTTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTT
GCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCGATTTAGTGCTTTACGGCA
CCTCGACCCCAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTTT
TTCGCCCTTTGACGTTGGAGTCCACGTTCTTAAATAGTGGACTCTTGTTCAAACTGGAACAACACTC
AACCCTATCTCGGTCTATTCTTTTGATTATAAGGGATTTTGCCGATTTGCGCCTATTGGTTAAAAAA
TGAGCTGATTTAACAAAAATTTAACGCGAATTTTAAACAAAATATTAAAGTTTACAATTTTCAGGTGGCA
CTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTTATTTTTCTAAATACATTCAAATATGTATCCG
CTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACA
TTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCATTTTGCTTCCTGTTTTTGCTCACCCAGAAACGC
TGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAAGTGGATCTCAAC
AGCGGTAAAGATCCTTGAGAGTTTTCGCCCCGAAGAAGCTTTTCCAATGATGAGCACTTTTAAAGTTCT
GCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTGCGCGCATACACTATT
CTCAGAAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGA
GAATTATGCAAGTGTGCTGACATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGG
AGGACCGAAGGAGCTAACCCTTTTTTGACAAACATGGGGGATCATGTAACTCGCCTTGATCGTTGGG
AACCAGGAGCTGAATGAAGCCATACCAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACA
ACGTTGCGCAAACTATTAACGCGCAACTACTTACTCTAGCTTCCCGCAACAATTAATAGACTGGAT
GGAGGCGGATAAAGTTGACAGGACACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATA
AATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCC
CGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGA
GATAGGTGCCCTCACTGATTAAGCATTGGTAAGTGTGACACCAAGTTTACTCATATATACTTTAGATTG
ATTTAAAACTTCATTTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAA
ATCCCTTAACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTG
AGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACACCCTGCTACAGCGGTGGTTT
GTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCA
AATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATA
CCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCTGTCTTACCGGGTTGG
ACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTGCGGCTGAACGGGGGGTTCGTGCACACAGCCC
AGCTTGGAGCGAAGCAGCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCT
TCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGG
AGCTTCCAGGGGGAAACGCTTGGTATCTTTATAGTCTGTGCGGTTTCGCCACCTCTGACTTGAGCGT
CGATTTTTGTGATGCTGCTCAGGGGGCGGAGCCTATGGAACACGCCAGCAACGCGGCCCTTTTTACG
GTTCTTGCCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCTGATTTCTGTGGATA
ACCGTATTACCGCTTTGAGTGAGCTGATACCGCTCGCCGACGCCGAACGACCGAGCGCAGCGAGTCA
GTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTTACA
CCGCATATATGGTGCACCTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCG
CTATCGCTACGTGACTGGGTGATGGCTGCGCCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACG
GGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGAGA
GGTTTTACCGTCATCACCGAAACGCGCGAGGCAGCTGCGGTAAAGCTCATCAGCGTGGTCTGTGAAGC
GATTCACAGATGTCTGCCTGTTTCATCCGCTCCAGCTCGTTGAGTTTCTCCAGAACGCTTAATGTCTG
GCTTCTGATAAAGCGGGCATGTTAAGGCGGTTTTTTCTGTTTGGTCACTGATGCCTCCGTGTAAG
GGGGATTTCTGTTTATGCGGGTAATGATACCGATGAAACGAGAGAGGATGCTCACGATACGGGTTACT
GATGATGAACATGCCCCGTTACTGGAACGTTGTGAGGGTAAACAACGCGGTATGGATGCGGCGGGA
CCAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTA
GCCAGCAGCATCCTGCGATGCAGATCCGGAACATAATGGTGCAGGGCGCTGACTTCCGCGTTTTCCAGA
CTTTACGAAACACGGAACCGAAGACCATTCATGTTGTTGCTCAGGTGCGAGACGTTTTGCGAGCGCA
GTCGCTTACGTTGCTGCGTATCGGTGATTCATTCTGCTAACAGTAAGGCAACCCCGCCAGCCTA
GCCGGTCTTCAACGACAGGAGCAGATCATGCGCACCCGTGGGGCCGCCATGCCGGCGATAATGGCC
TGCTTCTCGCCGAAACGTTTTGGTGGCGGGACAGTGACGAAGGCTTGAGCGAGGGCGTGCAAGATTCC

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GAATACCGCAAGCGACAGGCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCTCTGCCGAAAATGACCC
AGAGCGCTGCCGGCACCTGTCTTACGAGTTGCATGATAAAGAAGACAGTCATAAGTGCGGCGACGATA
GTCATGCCCCCGCCCCACCGGAAGGAGCTGACTGGGTTGAAGGCTCTCAAGGGCATCGGTTCGAGATCC
CGGTGCTTAATGAGTGAGCTAACTTACATTAATTGCGTTGCGCTCACTGCCCCGCTTTCCAGTCGGGAA
ACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGCTATTGGGCGC
CAGGGTGGTTTTTCTTTTACCAGTGAGACGGGCAACAGCTGATTGCCCTTACCAGCTGGCCCTGAG
AGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAAC
GGCGGGATATAACATGAGCTGTCTTCGGTATCGTTCGTATCCCACTACCGAGATGTCCGCACCAACGCG
CAGCCCCGACTCGGTAATGGCGCGCATTGCGCCCAGCGCCATCTGATCGTTGGCAACCAGCATCGCAG
TGGGAACGATGCCCTCATTACGATTTGCATGGTTTGTGAAAACCGGACATGGCACTCCAGTCGCCCT
TCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAGCCAGACGAGACG
CGCCGAGACAGAACTTAATGGGCCCGCTAACAGCGCGATTTGCTGGTGACCCAATGCGACCATGCT
CCACGCCCCAGTCGCGTACCGTCTTTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGGTCAGAGACA
TCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGG
ATAGTTAATGATCAGCCCCACTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCGA
CGCCGCTTCGTTCTACCATCGACACCACGCTGGCAGCCAGTTGATCGGCGCGAGATTTAATCGCC
GCGACAATTTGCGACGGCGCGTGCAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTT
GCCCCGCGAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGCCGCTTCCACTTTTT
CCCGCGTTTTTCGAGAAACGTGGCTGGCTGGTTTACCACGCGGGAAACGGTCTGATAAGAGACACCG
GCATACCTGCGACATCGTATAACGTTACTGGTTTACATTTACCACCTGAATTGACTCTCTCCGG
GCGCTATCATGCCATACCGCGAAAAGGTTTTGCGCCATTTCGATGGTGTCCGGGATCTCGACGCTCTCCC
TTATGCGACTCCTGCATTAGGAAGCAGCCAGTAGTAGGTTGAGGCCGTTGAGCACCAGCCGCCGCAAG
GAATGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGGCTGCCACCATACCACGCG
CGAAACAAGCGCTCATGAGCCCCGAAGTGGCGAGCCCGATCTTCCCCATCGGTGATGTGCGCGATATAG
GCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCGAGAT
CGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTC
TAGAAATAATTTGTTTAACTTTAAGAAGGAGATATACATATGGGCTCAAGCCACCACCACCACCACC
ACAGCAGCGGCGAGAACTTGTACTTTCAAGGATCCGCAGAACCACGTCAAGAAATTTGAGGTTATGGAA
GATCAGCGGGGCACTTACGGTTTGGGTGATCGTAAAGACCAGGGCGGCTATACCATTGACTCAAGATCA
AGAGGGGCGACACCGATGCTGGCTTGAAAGAGTCGCGGCTGCAGACTCCGACCGAGGATGGCAGCGAAG
AGCCGGGCGAGGAGACTAGCGATGCGAAGTCGACCCCGACCGCGAGGCGAGAAGAGGGGGGTATCGGC
GACACTCCGTCCCTGGAAGATGAGGCAGCCGGTCATGTACGCAGGCGCGTATGGTGAGCAAGAGCAA
AGATGGTACGGGTAGCGACGACAAGAAGGCGAAGGGCGCAGATGGCAAGACCAAAATTTGCGACGCCGC
GTGGTGCGGCGACCGCCAGGCCAGAAAGGTCAGGCGAATGCCACGCGCATCCCGGCAAGACGCCACCG
GCTCCGAAAACCCCGCCTTCCAGCGGTGAACCGCCGAAATCCGGTGACCGCAGCGGTTATAGCTCTCC
GGGTAGCCCGGGTACCCAGGCAGCCGTAGCCGCACCCCGAGCTGCCGACCCACCGACCCGCGAGC
CGAAGAAAGTGGCGGTGGTTTCGTACGCCGCCAAAAGCCGAGCTCTGCCAAGAGCCGTCTGCAAACC
GCTCCTGTGCCGATGCCGGACCTGAAGAACGTTAAGTCTAAAATCGGTAGCACCGAAAATCTGAAGCA
CCAACCTGGTGGCGGTAAGGTTCAAATCATCAACAAAAAGCTGGACTTGAGCAATGTACAAAGCAAGT
GTGGTAGCAAGGACAATATCAAACACGTCCCGGGTGGTGGTTCCGTCCAGATTGTGTACAAACCGGTG
GACCTGAGCAAGGTTACCAGCAAATGCGGTTCCCTGGGTAACATCCATCATAAACCGGGTGGCGGCCA
AGTTGAGGTCAAGAGCGAGAACTGGACTTCAAAGACCGGTTCACTCCAAAATCGGTTCTCTGGACA
ACATTACGCACGTGCCTGGTGGTGGCAACAAGAAGATTGAAACCATAAACTGACGTTTTCTGAAAAT
GCGAAGGCGAAAACCGACACGGCGCAGAGATTGTCTACAAAAGCCCGGTGGTGAGCGGTGATACCAG
CCCGCGTCACCTGTCCAACGTCAGCAGACGGGCGAGCATTGATATGGTGGATAGCCCGAGTTGGCTA
CGCTGGCCGATGAGGTTAGCGCGAGCTGGCGAAGCAGGCTCTGTGACTCGAGCACCACCACCACCAC
CACTGAGATCCGGCTGCTAACAAAAGCCGAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCAATA
ACTAGCATAACCCCTTGGGGCTCTAAACGGGTCTTGAGGGGTTTTTTGCTGAAAGGAGGAACATATAT
CCGGAT

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Figure 14

- A) Expressed amino acid sequence of pET 6His-TEV-hTau iso5(1-412), incorporating 6His tag-TEV site – hTau (1-412) (SEQ ID No.: 49)

MGSSHHHHHHSSGENLYFQGSAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPL
QTPTEDGSEEPGSETSDAKSTPTAEAEAEAGIGDTPSLEDEAAAGHVTQARMVSKSKDGTGSDDKKAKGA
DGKTKIATPRGAAPPGQKGQANATRIPAKTPAPKTPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTP
SLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVMPDLKNVSKIGSTENLKHQPGGGKVQI INKK
LDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPV DLSKVT SKCGSLGNIHHKPGGGQVEVKSEKLDFKDR
VQSKIGSLDNITHVPGGGNKKIETHKLT FRENAAKTDHGAEIVYKSPVVSGDTS PRHLSNVSS TGS I
DMVDSPQLATLADEV SASLAKQGL

- B) Final sequence of pET 6His-TEV-hTau iso5(1-412) after TEV cleavage (SEQ ID No.: 50)

GSAEPRQEFVEMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQTPTEDGSEEPGSETSDAK
STPTAEAEAEAGIGDTPSLEDEAAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKG
QANATRIPAKTPAPKTPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTP
PKSPSSAKSRLQTAPVMPDLKNVSKIGSTENLKHQPGGGKVQI INKKLDLSNVQSKCGSKDNIKHV
PGGGSVQIVYKPV DLSKVT SKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGN
KKIETHKLT FRENAAKTDHGAEIVYKSPVVSGDTS PRHLSNVSS TGS IDMVDSPQLATLADEV SASL
AKQGL

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Figure 15

DNA construct encoding human Tau isoform 2 for mammalian expression (pMH-10His-TEV-hTau iso2(1-441)) (SEQ ID No.:51).

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GCTGCTTCGCGATGTACGGGCCAGATATACGCGTTTTGAGATTTCTGTGCGCCGACTAAATTCATGTCTG
CGCGATAGTGGTGTATATCGCCGATAGAGATGGCGATATTGGAAAAATCGGCGGCCGCCGATATTTGA
AAATATGGCATATTGAAAATGTCGCCGATGTGAGTTTTCTGTGTAACCTGACATCGCCATTTTTCCAAAA
GTGATTTTTGGGCATACGCGGTATCTGGCGATAGCGCTTATATCGTTTACGGGGGATGGCGATAGACG
ACTTTGGTGACTTGGGCGATTCTGTGTGTCGCAAATATCGCAGTTTCGATATAGGTGACAGACGATAT
GAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGGCCAAATGCATATCGATCTATACATTG
AATCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCC
ATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCAT
GTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCCGCCC
ATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGG
TGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCC
TACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACAATGGTGATGCGGTTTTGGCAGTACATCA
ATGGGCGGTGATAGCGGTTTTGACTCACGGGGATTTCCAAGTCTCCACCCCAATTGACGTCAATGGGAGT
TTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCTGTAACAACCTCCGCCCCATTGACGCAAT
GGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAACTCGTTTAGTGAACCGTCAGATCGCCT
GGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCGGCCGG
GAACGGTGCATTGGAACGCGGATTCCCGTGCCAAGAGTGACGTAAGTACCGCCTATAGAGTCTATAG
GCCCCCCCCATTGGCTTCTTATGCATGCTATACTGTTTTTGGCTTGGGGTCTATACACCCCCGCTTCC
TCATGTTATAGGTGATGGTATAGCTTAGCCTATAGGTGTGGGTTATTGACCATTATTGACCACTCCCC
TATTGGTGACGATACCTTTCCATTACTAATCCATAACATGGCTCTTTGCCACAACCTCTCTTTATTGGCT
ATATGCCAATACACTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCTCATTT
ATTATTTACAAATTCACATATACAACACCACCGTCCCCAGTGCCCGCAGTTTTTTATTAACATAACGT
GGGATCTCCACGCGAATCTAGGGTACGTGTTACGGACATGGGCTATTCTCAGGTAGCGGGGAGCTTC
TACATCCGAGCCCTGCTCCCATGCCTCCAGCGAATCATGTCGCTCGGCAGCTCCTTGCTCTTAACAG
TGGAGGCCAGACTTAGGCACAGCAGATGCCACCACCACAGTGTGCCGCACAAGGCCGTGGCGGTA
GGGTATGTGTCTGAAAATGAACTAGGGGAGCGGGCTTGCACCGCTGACGCATTTGGAAGACTTAAGGC
AGCGGCAGAGAAGATGCAGGCAACTGAGTTGTTGTGTTCTGATAAGAGTCAGAGGTAACCTCCCGTTG
CGGTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCACGCGCCACCAGA
CATAATAGCTGACAGACTAACAGACTGTTCTTTCAATGGGTCTTTTATGCAGTCACCGTCTCTTGACA
CGAAGCTTGCCACCATGGGCTCAAGCCACCATCACCACCACCATCACCACCACGACGCGGGCAG
AACTTGTACTTTCAAGGATCCGCTGAGCCCCGCCAGGAGTTTCAAGTGTATGGAAGATCAGCTGGGAC
GTACGGGTTGGGGACAGGAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGG
ACGCTGGCCTGAAAGAATCTCCCTGCAGACCCCCACTGAGGACGGATCTGAGGAACCGGGCTCTGAA
ACCTCTGATGCTAAGAGCACTCCAACAGCGGAAGATGTGACAGCACCTTAGTGGATGAGGGAGCTCC
CGGCAAGCAGGCTGCCGCGCAGCCCCACACGGAGATCCCAGAAGGAACCACAGCTGAAGAAGCAGGCA
TTGGAGACACCCCCAGCCTGGAAGACGAAGCTGCTGGTACGCTGACCCAAGCTCGCATGGTCAGTAAA
AGCAAAGACGGGACTGGAAGCGATGACAAAAAGCCAAGGGGGCTGATGGTAAAACGAAGATCGCCAC
ACCGCGGGGAGCAGCCCCCTCAGGCCAGAAGGGCCAGGCCAACGCCACCAGGATTCCAGCAAAAACCC
CGCCCCGCTCCAAAGACACCACCCAGCTCTGGTGAACCTCCAAAATCAGGGGATCGCAGCGGGTACAGC
AGCCCCGGCTCCCCAGGCACTCCCGGCAGCCGCTCCCGCACCCCGTCCCTTCCAACCCACCCACCCG
GGAGCCCCAAGAAGGTGGCAGTGGTCCGTACTCCACCCAAGTCGCGCTCTTCCGCCAAGAGCCGCCTGC
AGACAGCCCCCGTGCCCATGCCAGACCTGAAGAATGTCAAGTCCAAGATCGGCTCCACTGAGAACCTG
AAGCACCAGCCGGGAGGCGGGAAGGTGCAGATAATTAATAAGAAGCTGGATCTTAGCAACGTCCAGTC
CAAGTGTGGCTCAAAGGATAATATCAAACACGTCCCGGGAGGCGGCAGTGTGCAAAATAGTCTACAAAC
CAGTTGACCTGAGCAAGGTGACCTCCAAGTGTGGCTCATTAGGCAACATCCATCATAAACCAGGAGGT
GGCCAGGTGGAAGTAAATCTGAGAAGCTAGACTTCAAGGACAGAGTCCAGTCAAGATTGGGTCCCT
GGACAATATCACCCACGTCCCTGGCGGAGGAAATAAAAAGATTGAAACCCACAAGCTGACCTTCCGCG
AGAACGCCAAAGCCAAAGACAGACCACGGGGCGGAGATCGTGTACAAGTCGCGCAGTGGTGTCTGGGAC
ACGTCTCCACGGCATCTCAGCAATGTCTCTCCACCGGCAGCATCGACATGGTAGACTCGCCCCAGCT
CGCCACGCTAGCTGACGAGGTGTCTGCCTCCCTGGCCAAGCAGGGTTTGTGACTCGAGGAGAACTTGT
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ACTTCCAGGGAAGTGGTGGCAGTCATCACCATCACCATCACCATCACCATCACTGAGAATTCATTGAT
CATAATCAGCCATACCACATTTGTAGAGGTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCCTGA
ACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTTTATTGCAGCTTATAATGGTTACAAA
TAAAGCAATAGCATCACAAATTTACAAAATAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTG
CAAACATCATCAATGTATCTTATCATGTCTGAATCCTCTACGCCGGACGCATCGTGGCCGGCATCACC
GCGCCACAGGTGCGGTTGCTGGCGCCTATATCGCCGACATCACCATGGGGAAGATCGGGCTCGCCAC
TTCGGGCTCATGAGCGCTTGTTTCGGCGTGGGTATGGTGGCAGGCCCCGTGGCCGGGGGACTGTTGGG
CGCCATCTCCTTGCATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGCCTCAACCTACTACTGGGCT
GCTTCCTAATGCAGGAGTCGCATAAGGGAGAGCGTCGACTGGGGCGCCCTCTGGTAAGGTTGGGAAGC
CCTGCAAAGTAAACTGGATGGCTTTCTCGCCGCCAAGCATCTGATGGCGCAGGGGATCAAGCTCTGAT
CAAGAGACAGGATGAGGATCGTTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGC
TTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGT
TCCGGCTGTCAGCGCAGGGGCGCCCGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAATGAA
CTGCAAGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCTTGGCGCAGCAGTGCTCGA
CGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTGAT
CTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGCGGCTGCATACGCTTGAT
CCGGCTACCTGCCCATTTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGC
CGGTCTTGTGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACGTTCGCCA
GGCTCAAGGCGAGCATGCCCCGACGGCGAGGATCTCGTCTGTGACCCACGGCGATGCCTGCTTGCCGAAT
ATCATGGTGGAAAATGGCCGCTTTTCTGGATTATCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTA
TCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCC
TCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTC
TTCTGAATTATTAACGCTTACAATTTCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTT
ACACCGCATCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATA
CATTCAAATATGTATCCGCTCATGAGACAATAACCCGTGATAAATGCTTCAATAATAGCACGTGCTAAA
ACTTCATTTTTTAATTTAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTT
AACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCT
TTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACACCAGCTACCAGCGGTGGTTTGTGTTGCC
GGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCAAATACTG
TTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAAGTCTGTAGCACCGCCTACATACCTCGCT
CTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGCTTACCAGGTTGGACTCAAG
ACGATAGTTACCGGATAAGGCGCAGCGGTGCGGCTGAACGGGGGGTTCTGTGCACACAGCCAGCTTGG
AGCGAACGACCTACACCGAAGTACGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAA
GGGAGAAAGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCC
AGGGGGAAACGCCTGGTATCTTTATAGTCCTGTGCGGTTTTCGCCACCTCTGACTTGAGCGTCGATTTT
TGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTACGGTTCTCT
GCCTTTTGCTGGCCTTTTGCTCACATGTTCTT

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Figure 16

- A) Expressed amino acid sequence of pMH 10His-TEV-hTau iso2(1-441), incorporating 10His tag-TEV site – hTau (1-441) (SEQ ID No.: 52)

MGSSHHHHHHHHSSGENLYFQGS AEP RQEF EVMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLK
ESPLQTP TEDGSEEPGSETSDAKSTPTAEDVTAPLVDEGAPGKQAAAPHT EIP EGT TAE EAGIGDTP
SLEDEAAAGHVTQARMVSKSKDGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPK
TPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPV
PMPDLKNVSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYK PVDLS
KVTSKCGSLGNIHHKPGGGQVEVKSEKLD FKDRVQSKIGSLDNITHVPGGKNKKIETHKLT FRENAKA
KTDHGAEIVYKSPVVS GDTSPRHLSNV SSTGSIDMV DSPQLATLADEV SASLAKQGL

- B) Final sequence of pMH 10His-TEV-hTau iso2(1-441) after TEV cleavage (SEQ ID No.: 53):

GSAEP RQEF EVMEDHAGTYGLGDRKDQGGYTMHQDQEGD TDAGLKESPLQTP TEDGSEEPGSETSDAK
STPTAEDVTAPLVDEGAPGKQAAAPHT EIP EGT TAE EAGIGDTPSLEDEAAAGHVTQARMVSKSKDGT
GSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSSPGSP
GTPGSRSRTPSLPTPPTREP KKVAVVRTPPKSPSSAKSRLQTAPVMPDLKNVSKIGSTENLKHQPG
GGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYK PVDLSKVTSKCGSLGNIHHKPGGGQVEV
KSEKLD FKDRVQSKIGSLDNITHVPGGKNKKIETHKLT FRENAAKTDHGAEIVYKSPVVS GDTSPRH
LSNV SSTGSIDMV DSPQLATLADEV SASLAKQGL

Figure 17

