BOKU UNIVERSITY

H<dFTN2> sequence on attTN7 site (integration site):

CCGAACAACGAATTGCTGGAAAAACTGAAATCCAACATTGAAGAAGTTCGCGCGCGTGGCGGTCAGTTGTATGTCTTCGCCGATCAGGATGC
GGGTTTTGTAAGTAGCGATAACATGCACATCATCGAGATGCCGCATGTGGAAGAGGTGATTGCACCGATCTTCTACACCGTTCCGCTGCAGC
TGCTGGCTTACCATGTCGCGCTGATCAAAGGCACCGACGTTGACCAGCCGCGTAACCTGGCAAAATCGGTTACGGTTGAGTAATAAATGGAT
GCCCGAACAACGAATTGCTGGAAAAACTAAAATCCAACATTGAAGAAGTTCGCGCGCGTGGCGGTCAGTTGTATGTCTTCGCCGATCAGGAT
GCGGGTTTTGTAAGTAGCGATAACATGCACATCATCGAGATGCCGCATGTGGAAGAGGTGATTGCACCAATCTTCTACACCGTTCCGCTGCA
GCTACTGGCTTATCACGTCGCGCTGATCAAAGGTACCGACGTTGACCAGCCGCGTAACCTGGCAAAATCGGTTACGGTTGAGTAATAAATGG
ATGCCGGATATAGTTCCTCCTTTCAGCAAAAAACCCCTCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTATTGCTCAGCGGTGGC
AGCAGCCAACTCAGCTTCCTTTCGGGCTTTGTTAGCAGCCGGATCTCAGTGGTGGTGGTGGTGGTGCTCGAGTGCGGCCGCAGCGACAAACA
ACAGATAAAACGAAAGGCCCAGTCTTTCGACTGAGCCTTTCGTTTTATTTGAAGCTTCTTTCAGCAAAAAACCCCGCGAGACCCCCGAAGAG
GCCCCGCGGGGTTATGCTAGGTCGACGGAGCTCGAATTCCTCGAGTTACTATTTATCACAGGACTTCGGCTCAACTTTTTTGTCAACTTTGG
TGTTGCTCGGCTTGTGATTCACGTTACAAATGTACGTTTGGGTACCCAGGCTGCTGGACGGCACGGTCACGACGCTGCTCAGTGAATACAAA
CCGCTCGATTGCAGCACTGCCGGGAAGGTGTGCACACCGCTCGTCAGCGCGCCGCTGTTCCAGCTCACGGTAACCGGTTCTGGAAAATAGTC
TTTCACCAGGCAACCCAGCGCTGCAGTGCCACCGCTAGTGCTCTTGCTGCTCGGCGCCAGCGGAAAAACGGACGGACCCTTGGTAGACGCGC
TGCTGACGGTCACTAAGGTACCTTGGCCCCAGTAGTCCATAGCATAGCTACGGTAACCACGCGCGCAGTAATACACTGCGGTATCCTCTGCG
CGCAGGCTGTTCATCTGCAGATATGCGGTGCTTTTGGAGGTGTCCAGGGAAAAAGTGAAACGACCCTTCACGCTATCCGCGTAAATCGGTTC
ACCGATGTAGGTATTGATCCAACCCATCCACTCCAAACCCTTACCCGGCGGCTGGCGCACCCAGTTCATACCGTAGTCCGTAAAGACGTAGC
CGGACGCTGCACACGACAGACGCAAGCTGCCACCCGGCTGGACCAGGCCGCCACCGCTCTCAACCAGTTGGACTTGCGCCGATGCGCTAAAC
GCTAAAACTAAACCAGCCAGCGCCAGCCAAATCTTTTTCATTGTACATTCTCCTTCTTGATTTAAGTGAACAAGTTTATCCATCAACTATCT
TAATTGTTACTAGCACTCACCACGATTGAAGCTTTTGGTGACAGGGCTAGACAGGCCCTGATGAGTGACTTCACACGCGTAGACTTTGTGTT
TCTCATAGTCAGCTTTGCTCAGGGTCAAGGTAGAGGACAGGCTGTAGGTGCTATCTTTCGAGTCTTGCTCGGTAACGCTTTCCTGAGAGTTG
CCGCTCTGCAGGGCATTATCAACTTTCCACTGGACTTTCGCCTCACGTGGGTAAAAGTTATTCAGCAGGCAGACAACGCTGGCCGTACCAGA
CTTCAGCTGTTCGTCGCTAGGCGGAAAGATAAAAACGCTCGGCGCTGCAACCGTACGCTTGATCTCAACTTTCGTGCCCTGACCAAAGGTCA
GCGGATAAATATTGTATTGTTGGCAGTAATAAGTGGCAAAATCTTCCGGCTGCAGGCTGCTAATGGTCAGCGTGAAGTCCGTGCCGCTACCG
CTACCAGAGAAGCGATACGGCACACCTGAATACAGGAAGCTGGCGCTGTAAATCAGCGCTTTCGGAGCCTTACCAGGCTTTTGCTGATACCA
CGCAACATTGGTGCCAACGTTTTGGCTGGCTTTACACGTGATGGTGACACGATCGCCAACGCTCGCGCTCAGGGAGCTTGGAGATTGCGTCA
TCTGGATGTCCGCCGATGCGCTAAACGCTAAAACTAAACCAGCCAGCGCCAGCCAAATCTTTTTCATATGTATATCTCCTTCTTAAAGTTAA
ACAAAATTATTTCTAGAGGGGAATTGTTATCCGCTCACAATTCCCCTATAGTGAGTCGTATTAATTTCGCGGGATCGAGATCGATCTCGATC
CTCTACGCCGGACGCATCGTGGCCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCTATATCGCCGACATCACCGATGGGGAAGATCG
GGCTCGCCACTTCGGGCTCATGAGCGCTTGTTTCGGCGTGGGTATGGTGGCAGGCCCCGTGGCCGGGGGACTGTTGGGCGCCATCTCCTTGC
ATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGCCTCAACCTACTACTATGTTTTTAATCAAACATCCTGCCAACTCCATGTGACAAACCG
TCATCTTCGGCTACTTTTTCTCTGTCACAGAATGAAAATTTTTCTGTCATCTCTTCGTTATTAATGTTTGTAATTGACTGAATATCAACGCT
TATTTAAATCAGACTGAAGACTTTATCTCTCTGTCATAAAACTGTCATATTCCTTACATATAACTGTCACCTGTTTGTCCTATTTTGCTTCT
CGTAGCCAACAAACAATGCTTTATGAATCCTCCCAGGAGACATTATGAAAGTTATGCGTACCACCGTCGCAACTGTTGTCGCCGCGACCTTA
TCGATGAGTGCTTTCTCTGTGTTTGCAGAAGCAAGCCTGAC

The expression cassette is composed of the T7 promoter/operator element (highlighted in yellow), the coding sequence for the ompA signal sequence for periplasmic translocation (highlighted in green), the Fab light chain (LC) (highlighted in magenta), a spacer and again the ompA signal sequence, the FTN2 heavy chain (HC) (highlighted in red) and the transcription terminator element tZenit (highlighted in blue).