

File S1. The optimized DNA sequence and amino acid sequence of Cystatin

Optimized DNA Sequence

ATGAGTGCAATTTGTTTCGATGTGAGTGCAAGCAATCGTATTGATGCCAATAAGCAGCGTCTGCTGCATCATCGTAA
TCCGGAAGGTCGTAGCAAAAATCCGCGCCGCACCCGTGGTGAATTCGTCAGCTGGATGCAAAGAAATTGAAG
AAGAAGAAGTGGGCGAACTGGCCAGTTTGCCGCAACCACCGTGGCCAAAGCCGAAAAACGTGCATTCATGAT
GCAGTGCTGAATATTACCGAAGCACATCAGCAGACCGTTGCAGGCTGGAATACCAAATGAACTGGTTGTTAGT
GAAACCAAGTTGCCCGATTCAATCCGTTTGATGTGGGTCAGTGCATTCCGAAAAATGCAAGTATTACCCGCCAGT
GTGATGTGCTGGTGTATGAACGCCCGTGGGAACATATTAAGGAACTGACCAGCTTTTATTGTCAT

Optimized Protein Sequence

MSAICFDVSASNRIDANKQRLHHRNPEGRSKNPRRTRGEFRQLDAKEIEEELGELAQFAATTVAKAEKRAFHDAVL
NITEAHQQTVAGWNTKMKLVVSETSCPIHNPFVDVGQCIPKNASITRQCDVLVYERPWEHIKELTSFYCH