Supplementary Table S2. Source information and codon-optimized nucleotide sequences of the heterologous genes used in this study

Gene	Original accession	Codon-optimized nucleotide sequence (5'-3')
LmXPK	YP_818922.1	ATGAACATTGATTCTACCGACTACCTAAACAACCTAGATGCTT ACTGGAGAGCTACCAACTACTTGTCCGTCGGTCAATTATACT TGTTAGACAACCCATTATTGAAGGAGAAGTTGACTGCTGAAC AAGTTAAGATTCACCCAATTGGTCACTGGGGTACTATCCCAT CTCAAAACTTCATCTACGCTCACCTAAACCGTGCCATTAACAA GTTCAACTTGAACATGTTCTACATTGAAGGTCCAGGTCACGG TGGTCAAGTAATGATTTCCAACGCTTACTTGGACGGTTCTTA CACGGAAGCCTTCCCAGAAATCACTCAAGACGAAGCTGGTA TGCAAAAGATGTTTAAGAGATTTTCTTTCCCAGGTGGTGTTG CTAGCCACGCCGACCCAAAGGTTCCAGGTTCTATCCACGAA GGTGGTGCTTTGGGATATTCCATCTTGCACGGCGCTGGTGC TGTCTTGGATAACCCTGACTTGATTGCTGCTGTCGTCGTTGG TGATGGTGAAGCTGAAACTGCTCCATTGGCCACTTCCTGGC ACGTTAACAAATTCTTGAACCCAAAGAACGACGGTACTGTTT TGTTGATCTTGAACTTGAACGGTTTCAAGATCGCTAACCCTA CTGTTTTGTCCAGAGAATCTGACGAAACCTTGACTGAATATTT CCACTCTTTGGGTTGGCATCCATACTTTGTTTCTTCTTTCGAT AAGCCAATCATGCAAGTCCACGAAGAAATGGCCAAAACTATG GACACCGTTTTCACTGAAATCAAGGACATTCGTGAAAAGGCT GTTCAACAAACTAACGAAGAAATCACTAGACCATTGTGGCCA ATGATTGTTTTAAGATCCCCAAAGGGTTGGACTGGTCCAAAG ACCTGGGATGACAAGCCAATCGAAAACTCCTTCAGAGCCCA TCAAATCCCAATCCCAGCTGACCAAAACCATCCTGAATATATT CCACAATTAGTTGACTGGTTACAATCTTACAAGCCAGATGAAT TATTTGACGAAAATGGACAATTGACCCAATCCATACAAGAAGT GCTACCAAAGAAGGAATTGAGAATGGCTAATAACTCTGTTAC CAACGCCGGTATCATTAAACCATTGATCTTGCCAGATATTGAC AATTATTTGGTCGAAAACAACCAACCAGGTAACAACTTAGCT CAAGATGCTATTTTGTTGGGTGACTACTTGAGAGACATCATAA AGTTGAACCCAACTAATTTCAGAGGTTTCGGTCCAGATGAAA CCGCCTCAAATAGATTCCAAGACATCTTCGAGACAACTAACA GACAATGGTTGTTGCCCATCAAGGAACCAAACGATCAATTCA TGGCCCCAGAAGGTAGAATTATCGACTCCATGTTGTCTGAAC ACTACGATGAAGGTATGTTGGAAGCCTACACTTTGACTGGTA GACACGGTTTCTTTGCTTCCTACGAAGTTTTTATCCGGGAAG TTGACGACATGATTGTCCAACATTTCAAATGGTTAAACCACTC GCACGATGTCAGTTGGAGAAAGGATGTTCCAGCTTTGAACAT TATTGCCGATTCTACTGTTTTCCAACAAGACCACAATGGTTAC TCTCACCAAGATCCAGGTGTCACCACTATGTTGTACGAAAAA

CkPTA	YP_001394780.1	CAGCCAGACTTCATCCGTGAATTTTTCCCAGCTGACGCCAAC TCCCTGGTCGCTACTTTCGAACATGCTGCTCAAGCTACCCAA CAAATCAACTACATTGTTGCTTCCAAGCACCCAAGATTGCAAT GGTTCTCTCCAACTGAAGCTAAGCAATTGGTTACTCAAGGTT TGCGTGTCATTGACTGGGCTTCCACCGATAAGGGTGAAAAG CCAGACATTATCATCGCATCTGCTGGTTCCGAACCAACGACC GAATCTTTGGCTGCTATTCAAATTTTGCACGAACACATTCCAT CTCTTAAGATCCGTTACATCAACGTCCTGGACTTATTCAAGTT GAGAGCTGATGCCAACTACGGTTTGTCTGATGATGAATTTGA CGCATACTTCACCACCGACACTCCAGTTTTGTTCGCTTTCCA CGGTTACGAACCTATGATCGAATCTATTTTCTTCAAGAGACAT AACCACCACTTGGCCGTCCACGGTTACAGAGAAGTTGGTGA CATCACTACCCCATTCGATATGAGAGTTTTAAATAAGATTGAC AGATTCAACTTGGTCAAGGCTGCCATCAACTTGTTACCAGAA AACATCAGAACCAAGCAAGCCGCTCTCGTTCAAGAAATGACT GATAAATTGGACTTGCATGTTGCCTACACCAGATCCAAGGGT ACTGATTTGCCCGAAGTTGAAGACTGGAGATGGCAACCATT GAAGTAA
		ATGAAGTTGATGGAAAACATCTTCGGACTGGCTAAGGCTGAC AAGAAGAAGATTGTCTTAGCTGAAGGTGAAGAAGAGCGTAA CATTCGTGCTTCCGAAGAAATCATCAGAGATGGTATTGCTGA CATTATCTTGGTCGGTTCTGAATCCGTTATCAAGGAAAACGC CGCTAAGTTCGGTGTTAACTTGGCTGGTGTCGAAATTGTTGA CCCAGAAACTTCTTCTAAGACCGCCGGTTATGCTAACGCTTT CTACGAAATTAGAAAGAACAAGGGTGTTACTTTGGAAAAGGC TGATAAGATCGTTAGAGATCCTATCTACTTCGCTACCATGATG GTTAAGTTGGGTGACGCTGATGGTTTGGTTTCCGGTGCCATT CACACTACTGGTGATTTGTTAAGACCAGGCTTGCAAATCGTC AAGACTGTCCCAGGTGCTAGTGTTGTCTCTTCCGTTTTCTTA ATGTCTGTTCCAGATTGTGAATACGGTGAAGATGGTTTCTTG TTATTTGCCGACTGTGCTGTCAACGTCTGTCCAACTGCTGAA GAATTATCTTCAATTGCCATCACCACTGCCGAAACCGCCAAG AACTTGTGTAAGATTGAACCAAGAGTTGCTATGTTGTCTTTCT CTACTATGGGTTCTGCTTCCCACGAATTGGTTGACAAAGTTA CCAAGGCCACCAAGTTGGCTAAAGAAGCTAGACCAGACTTG GACATTGACGGTGAACTACAATTGGATGCTTCTTTGGTCAAA AAAGTGGCAGACTTGAAGGCTCCAGGTTCCAAGGTTGCTGG TAAGGCTAATGTTTTGATTTTCCCAGACATCCAAGCTGGTAAC ATTGGTTACAAGCTAGTTCAAAGATTCGCCAAAGCTGAAGCT ATCGGTCCAATCTGCCAAGGTTTTGCTAAGCCAATCAACGAT TTGAGCAGAGGTTGTTCTGTCGATGACATCGTCAAGGTTGTT GCTGTCACCGCCGTCCAAGCCCAAGCTCAAGGTTAA