

Table S1. Codon-optimized sequence of *eSpCas9* gene

Gene	Sequence(5'-3')
Codon-optimized <i>eSpCas9</i>	GACAAGAAGTACTCAATCGGCCTGGACATTGGCACCAACTCTGTTGGTT GGGCCGTGATTACCGACGAATACAAAGTGCCCTCTAAAAAGTTCAAGG TCCTTGGAACACAGATCGACATTCGATCAAGAAGAACCTGATAGGAG CACTGCTCTTCGACTCGGGTGAGACTGCGGAGGCCACCCGGCTGAAAC GAACCGCCCGACGACGTTACACTCGCAGAAAGAACAGAATTTGTTACT TGCAGGAAATCTTCTCGAACGAGATGGCCAAGGTGGACGACTCGTTCT TCCACCGACTTGAGGAGTCCTTCCTGGTTGAGGAGGACAAGAAACACG AGCGTCATCCCATTTTGGAAACATTGTCGACGAGGTGCTTACCACGA AAAGTATCCAACAATCTACCATCTGCGCAAGAAGCTGGTAGACTCAACC GACAAGGCAGATCTGCGGCTTATCTATCTGGCGCTGGCCACATGATTA AGTTCAGAGGCCATTTCTGATTGAGGGTGATCTCAACCCAGACAACTC TGATGTCGACAAGCTGTTTCATTGAGCTGGTGCAGACCTACAACCAGCTG TTTGAAGAGAACCCCATCAATGCCTCAGGTGTCGATGCCAAAGCCATTC TGTCCGCGCGACTCTCTAAGAGCCGACGGCTAGAGAATCTGATCGCACA ACTTCCAGGAGAGAAGAAGAATGGATTATTTGGAAACCTGATCGCCCTT TCGCTAGGCTTGACGCCCAACTTCAAGTCTAACTTTGATCTAGCGGAGG ACGCCAAGCTGCAGCTTTCTAAGGACACATACGACGATGATCTAGACAA TCTGCTTGCGCAGATCGGTGACCAGTACGCTGATTTGTTTTAGCTGCCA AGAACTTGAGCGACGCTATCCTCCTCTCCGACATCCTACGGGTGAACAC CGAGATTACTAAGGCCCCCTTGTCAGCTTCGATGATCAAGCGGTACGAT GAACATCACCAGGACCTGACACTACTCAAGGCACTCGTGCGCCAGCAG CTTCCTGAAAAGTATAAGGAAATTTTCTTTGACCAAAGCAAAAATGGTT ACGCCGGCTACATTGATGGTGGTGCATCTCAGGAGGAGTTCTACAAGTT TATCAAGCCGATTCTCGAGAAAATGGACGGAACCGAGGAACCTCCTTGT CAAGCTCAACCGAGAAGATCTACTGCGTAAGCAGAGAACCTTTGACAA TGGATCCATTCTCATCAGATCCACCTCGGCGAACTGCATGCCATCCTCC GTCGACAGGAGGACTTCTATCCATTTCTGAAAGACAACCGGGAAAAAA TTGAAAAGATTCTTACGTTCCGAATTCCTACTACGTTGGACCTCTGGCT CGAGGAAATTCCCGATTGCGCTGGATGACTAGAAAGTCTGAGGAGACC ATCACCCCTGGAACCTTTGAGGAGGTGGTGGACAAGGGAGCCTCTGCC CAGTCCTTTATCGAGCGAATGACCAACTTCGACAAAAATCTGCCCAATG AGAAGGTGCTGCCCAAGCACTCTCTGTTGTATGAGTACTTCACCGTCTA CAACGAGCTCACCAAGGTAAAGTATGTGACCGAAGGAATGCGTAAGCC TGCCTTTTTATCGGGTGAGCAAAAGAAGGCGATCGTCGATCTGCTGTTT AAGACCAACCGCAAGGTACAGTCAAACAACCTGAAGGAGGATTATTTT AAGAAGATCGAGTGCTTCGACAGTGTTGAGATCTCGGGTGTGGAGGAC CGTTCAACGCCTCACTTGGAACCTATCACGATCTCCTGAAGATCATCA AGGATAAGGACTTTCTGGACAACGAAGAGAATGAGGACATCCTGGAAG ATATTGTGTTGACTCTCACTTTGTTTCGAGGACAGGGAAATGATTGAAGA ACGTCTCAAGACCTACGCACACCTGTTTCGACGACAAGGTCATGAAACA GCTAAAACGGCGACGATACACTGGCTGGGGACGACTCTCGCGTAAGTT

AATCAACGGCATCCGAGATAAACAGAGCGGCAAGACGATCCTGGATT
CCTTAAGTCGGATGGATTGCGCAACCGAACTTCATGCAGCTCATTAC
GACGACTCACTCACTTTTAAGGAAGACATTGAGAAGGCTCAGGTTTCTG
GACAGGGCGACTCCCTTCATGAGCACATTGCTAACCTCGCGGGGTCGCC
TGCAATCAAGAAGGGTATTCTCCAGACCGTTAAGGTGGTTGATGAGCTG
GTCAAGGTGATGGGCGGACACAAGCCCGAGAACATCGTTATTGAGATG
GCTCGAGAGAACCAGACAACCCAGAAGGGCCAGAAGAATTCTCGTGA
GAGAATGAAGCGAATTGAGGAGGGTATTAAGGAGCTAGGGTCCCAGAT
TCTCAAGGAACACCCGGTTGAGAATACTCAACTCCAAAACGAGAAGCT
GTACCTTTACTACCTGCAGAATGGTCGGGACATGTACGTCGATCAGGAG
CTTGATATCAACCGACTGAGCGACTATGACGTGGACCACATTGTTCCGC
AGTCTTTTCTCGCTGACGACTCCATAGATAACAAAGTTTTGACTCGATCC
GATAAGAACCGAGGAAAGTCCGATAACGTGCCTAGCGAAGAAGTCGTG
AAGAAGATGAAGAACTACTGGCGACAGCTCTTGAATGCTAAGCTCATT
CTCAGCGGAAATTCGACAATCTTACTAAGGCCGAGCGAGGCGGACTTTC
CGAACTCGACAAGGCAGGCTTCATTAAAGCGACAATTGGTAGAGACGCG
ACAAATCACCAAGCATGTGGCCCAAATTCTCGACTCGAGGATGAACAC
AAAGTACGATGAGAACGACAACTTATCCGAGAAGTGAAGGTGATAAC
CCTTAAGTCCAAGCTTGTCTCCGACTTCCGAAAGGATTTCCAGTTTTAC
AAGGTGCGGGAGATCAATAACTATCACACGCTCATGATGCCTACCTGA
ACGCAGTTGTGGGTACTGCCCTCATTAAAAAGTACCCTGCTCTTGAGAG
TGAGTTTGTCTATGGAGACTACAAGGTCTACGACGTCAGAAAGATGATT
GCTAAATCTGAGCAGGAGATCGGCAAGGCGACAGCTAAATACTTTTTCT
ACTCCAACATCATGAACCTTCTTCAAGACTGAGATCACCTAGCCAACGG
CGAGATCAGAAAGGCTCCTCTGATCGAGACGAATGGAGAGACAGGTGA
GATTGTGTGGGACAAGGGCAGAGACTTTGCCACTGTGCGAAAGGTCT
GAGCATGCCCCAGGTCAACATTGTAAAAAAGACCGAGGTTTCAGACGGG
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AATCGCACGCAAAAAGGACTGGGACCCCAAGAAGTATGGAGGATTTGA
TTCCCTACGGTTGCTTACAGTGTGTTGGTGGTCGCAAAAGTCGAGAAG
GGCAAGTCGAAGAACTCAAGAGTGTGAAGGAGCTTCTGGGGATTACT
ATCATGGAGAGATCGTCTTTTGAGAAGAACCCTATCGACTTCCTAGAGG
CTAAGGGCTACAAGGAGGTCAAGAAAGACCTGATTATTAAGCTCCCCA
AGTACTCCCTGTTCGAGCTGGAGAACGGACGAAAGAGGATGCTGGCCA
GCGCCGGAGAATTACAAAAGGGCAACGAACCTGGCCCTGCCTTCTAAAT
ATGTCAACTTTTTGTACCTTGCTTCCCATACGAGAACTTAAGGGCTCT
CCAGAGGATAACGAGCAGAAACAACCTCTTGTGGAGCAGCATAAACAC
TACCTGGACGAGATCATTGAGCAAATTTCCGAGTTCTCCAAAAGAGTCA
TTCTGGCCGATGCTAACCTCGACAAGGTTCTGTCTGCGTACAACAAGCA
CAGAGATAAGCCCATCAGAGAACAGGCCGAAAACATCATTCAATTTGTT
CACTTACAAACCTGGGTGCTCCCGTGCTTTTAAGTACTTTGACACCA
CCATTGACCGTAAGCGCTATACATCAACTAAGGAAGTTCTCGATGCCAC
GCTGATCCACCAGTCAATCACCGGTTTGTACGAAACCCGCATTGACCTG
AGTCAGCTCGGTGGCGAT
