

**pGSH1 Vector Sequence (2922 bp)**

GATATTTGCATGTCGCTATGTGTTCTGGGAAATCACCATAAACGTGAAATGTCTTTGGATTTGG  
GAATCTTATAAGTTCTGTATGAGACCACTCG\_siRNA\_Cloning\_Site\_GATCCCAGGAATCCAC  
TACGTGAACCATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGA  
ACCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAG  
GAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGC  
GCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTCAGGTGGCACTTTTC  
GGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCT  
CATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTCTTGAGGCGG  
AAAGAACCAGCTGTGGAATGTGTGTCTAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAG  
GCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGC  
TCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCCGCC  
CTAATCCCGCCATCCCGCCCTAACTCCGCCAGTTCGCCCCATTCTCCGCCCATGGCTGAC  
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GCGCAGGGGCGCCCGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAATGAACTGCAA  
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GTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGGCGTGA  
TACGCTTGATCCGGCTACCTGCCATTTCGACCACCAAGCGAAACATCGCATCGAGCGAGCAGC  
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CGCCAGCCGAAGTTCGCCAGGCTCAAGGCGAGCATGCCCGACGGCGAGGATCTCGTCGTG  
ACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCATC  
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GCTGAAGAGCTTGGCGGCGAATGGGCTGACCGTTCCTCGTGCTTTACGGTATCGCCGCTCCC  
GATTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTT  
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CTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGG  
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CAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGTGT  
GGGTCGTTTGTTCATAAACGCGGGGTTCCGGTCCCAGGGCTGGCACTCTGTCGATACCCACCG  
AGACCCCATTTGGGGCCAATACGCCCGCGTTTCTTCCTTTTCCCCACCCCAAGTTTCGG  
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ACGACCTACACCGAAGTGAATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCCGA  
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AGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCG  
GCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGT

**pGSH1-GFP Vector Sequence (5318 bp)**

TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTT  
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ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGAC  
TTTCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGTATGCGGTTTTGGC  
AGTACATCAATGGGCGTGGATAGCGGTTTACTCACGGGGATTTCCAAGTCTCCACCCCATTG  
ACGTC AATGGGAGTTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTGCTAACA  
ACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCT  
CGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGA  
CACCGGGACCGATCCAGCCTCCGCGGCCGGGAACGGTGCATTGGAACGCGGATTCCCCGTGC  
CAAGAGTAGCTAAGTACCGCCTATAGACTCTATAGGCACACCCCCTTGGCTCTTATGCATGA  
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TCTGGGAAATCACCATAAACGTGAAATGTCTTTGGATTTGGGAATCTTATAAGTTCTGTATGA  
GACCACTCG\_ siRNA\_ Cloning\_Site\_ GGCCGCGACTCTAGATCATAATCAGCCATACCACATT  
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CGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTG  
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CACTTCAAGAACTCTGTAGCACCGCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTG  
CTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGG  
CGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTAC  
ACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAA  
GGCGGACAGGTATCCGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCA  
GGGGGAAACGCCTGGTATCTTTATAGTCTGTCCGGTTTCGCCACCTCTGACTTGAGCGTTCGA  
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CGGTTCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCTGCGTTATCCCTGATTCTGT  
GGATAACCGTATTACCGCCATGCAT

**pGSU6 Vector Sequence (3087 bp)**

GAAGGTCGGGCAGGAAGAGGGCCTATTTCCCATGATTCCTTCATATTTGCATATACGATACAA  
GGCTGTTAGAGAGATAATTAGAATTAATTTGACTGTAAACACAAAGATATTAGTACAAAATAC  
GTGACGTAGAAAAGTAATAATTTCTTGGGTAGTTGACAGTTTTAAAATTATGTTTTAAAATGGA  
CTATCATATGCTTACCGTAACTTGAAAGTATTTGATTTCTTGGGTTTATATATCTTGTGGAAA  
GGACGCGG **siRNA\_Cloning\_Site\_GAT**CCCCGGAATTCCACTACGTGAACCATCACCTAATC  
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GGGCTGAACGGGGGGTTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGA  
GATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGG  
TATCCGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACG  
CCTGGTATCTTTATAGTCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATG  
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CTTTTGTGGCCTTTTGCTCACATGT

**pGSU6-GFP Vector Sequence (5558 bp)**

TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTT  
ACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCAACGACCCCCGCCATTGACGTCA  
ATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTCCATTGACGTCAATGGGTGGAG  
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CGTAACTTGAAAGTATTTTCGATTTCTTGGGTTTATATATCTTGTGGAAAGGACGCGG **siRNA**  
**Cloning Site** \_GGCCGCACTCTAGATCATAATCAGCCATACCACATTTGTAGAGGTTTACTTGC  
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CCTTCTTGACGAGTTCCTTCTGAGCGGGACTTGGGTCGAAATGACCGACCAAGCGACCC  
AACCTGCCATCACGAGATTCGATTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAATC  
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CACCTAGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGCTA  
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CCGCCATGCAT