Supplemental Figure 8: Nucleic Acid Sequence of pAc/emm55 Construct with Amino Acid Translation

Molecular Formula: plasmid DNA sequence with emm55 gene insert highlighted in grey **Start and stop codons in green and red font, respectively**	TCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGCATTAGT TATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTT CCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACC CCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGG ACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGC AGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACG GTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCT ACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTT TTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAA GTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGG GACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAG GCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAGTGAACCGTCAGA TCCGCTAGCGCTACCGGACTCAGATCTCGAGCTCAAGCTTCGAATTCTGCAGT CGACGGTACCGCGGGCCCGGGATCCATAAGGAGCATAAAAATGGCTAAAAATA CCACGAATAGACACTATTCGCTTAGAAAATTAAAAACAGGAACGGCTTCAGTA GCAGTAGCTTTGACTGTTTTAGGGACAGGACTGGTAGCAGGGCAGACAGTAAA AGCAAGCCAAACAGAACCATCTCAGACCAATAACAGATTATATCAAGAAAGAC AACGTTTACAGGATTTAAAAAGTAAGTTTCAAGACCTGAAAAATCGTTCAGAG GGATACATTCAGCAATACTACGACGAAGAAAAGAACAGTGGAAGTAACTCTAA CTGGTACGCAACCTACTTAAAAGAATTAAATGACGAATTTGAACAAGCTTATA ATGAACTTAGTGGTGATGGTGTAAAAAAATTAGCTGCAAGTTTGATGGAAGAA AGAGTCGCTTTAAGAGACGAAATCGATCAGATTAAGAAAATATCAGAAGAATT AAAAAATAAGCTGAGAGCAAAAGAAGAAGAATTAAAAAATAAAAAAGAGGAAC GTGAGCTTGAGCATGCTGCCTATGCAGCAGATGCAAAGAAACATGAAGAATAT GTCAAATCCATGTCTCTCGTACTAATGGATAAAGAAGAGGAGCGTCATAAACT AGAGCAATCATTAGACACGGCTAAAGCTGAGCTTGTTAAAAAAGAGCAAGAGT TACAGTTAGTCAAAGGCAATCTAGATCAAAAAGAAAAAGAACTAGAAAATGAA GAGCTAGCGAAAGAAAGTGCTATTAGTGATTTGACTGAGCAGATTACTGCTAA GAAGGCTGAAGTAGAAAAATTAACTCAAGATTTAGCTGCTAAGTCTGCTGAAA TTCAGGAAAAAGAAGCTGAAAAAGATCGCCAACAGCATATGTACGAAGCGTTT ATGAGCCAGTACAAAGAAAAAGTTGAGAAACAAGAGCAAGAGCTTGCTAAGCT AAAACAACTTGAAACCATCAACAACAATCTATTAGGTAATGCTAAGGATATGA TAGCTAAGTTGTCTGCTGAAAATGAACAATTAGCAAGCGACAAAGCAAAACTT GAAGAACAAAACAAGATTTCAGAAGCGAGCCGTAAAGGTCTTCGTCGTGACTT GGACGCATCACGTGAAGCTAAGAAACAAGTTGAAAAAGATTTAGCAAACTTGA CTGCTGAACTTGATAAGGTTAAAGAAGATAAACAAATTTCAGACGCAAGCCGT AAAGGTCTTCGTCGTGACTTGGACGCATCACGTGAAGCTAAGAAACAAGTTGA AAAAGCTTTAGAAGAAGCAAACAGCAAATTAGCGGCTCTTGAAAAACTTAACA AAGAGCTTGAAGAAAGCAAGAAATTAACAGAAAAAGAAAAAGCTGAGCTACAA GCGAAACTTGAAGCAGAAGCAAAAGCACTCAAAGAACAATTAGCGAAACAAGC TGAAGAACTTGCAAAACTAAGAGCTGGAAAAGCATCAGACTCACAAACCCCTG ATGCAAAACCAGGAAACAAAGTTGTTCCAGGTACAGGTCAAGCACCACAAGCA GGCACAAAACCTAACCAAAACAAAGCACCAATGAAGGAAACTAAGAGACAGTT ACCATCAACAGGTGAAGCAGCTAATCCATTCTTTACAGCGGCAGCCCTTACTG TTATGGCAACAGCTGGAGTAGCAGCAGTTGTAAAACGCAAAGAAGAAAACGAA GCTGAATTCTGCAGATATCCATCACACTGGCGGCCGCGACTCTAGATCATAAT CAGCCATACCACATTTGTAGAGGTTTTACTTGCTTTAAAAAACCTCCCACACC

	TCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTTT ATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAA TAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATG TATCTTAAGGCGTAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAA TTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCC CTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGTTCCAGTTTGG AACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAAC CGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCTAATCAAGTTTTT TGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCCGA TTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAA AGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGCGCG TAACCACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTCAGGTGGC ACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACA TTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAAT ATTGAAAAAGGAAGAGTCCTGAGGCGGAAAGAACCAGCTGTGGAATGTGTGTC AGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGC ATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGC AGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGC CCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCG CCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGC CTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTT GCAAAGATCGATCAAGAGACAGGATGAGGATCGTTTCGCATGATTGAACAAGA TGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATG ACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCA GCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAA TGAACTGCAAGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTC CTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTA TTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGA GAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGG CTACCTGCCCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACT CGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAAGAGCATCAGGG GCTCGCGCCAGCCGAACTGTTCGCCAGGCTCAAGGCGAGCATGCCCGACGGCG AGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAA AATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCG CTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCG AATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAG CGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGG TTCGAAATGACCGACCAAGCGACGCCCAACCTGCCATCACGAGATTTCGATTC CACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCG GCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCT AGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGC TATGACGGCAATAAAAAGACAGAATAAAACGCACGGTGTTGGGTCGTTTGTTC ATAAACGCGGGGTTCGGTCCCAGGGCTGGCACTCTGTCGATACCCCACCGAGA CCCCATTGGGGCCAATACGCCCGCGTTTCTTCCTTTTCCCCACCCCACCCCCC AAGTTCGGGTGAAGGCCCAGGGCTCGCAGCCAACGTCGGGGCGGCAGGCCCTG CCATAGCCTCAGGTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTT TAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAAT CCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCA AAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACA AAAAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAAC TCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTTC

	TTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCT ACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAA GTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGC GGTCGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACC TACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCC CGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAG AGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTC GGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGG GCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCT TTTGCTGGCCTTTTGCTCACATGTTCTT
Amino acid translation of emm55 gene sequence (566 AA)	MAKNTTNRHYSLRKLKTGTASVAVALTVLGTGLVAGQTVKASQTEPSQTNNRL YQERQRLQDLKSKFQDLKNRSEGYIQQYYDEEKNSGSNSNWYATYLKELNDEF EQAYNELSGDGVKKLAASLMEERVALRDEIDQIKKISEELKNKLRAKEEELKN KKEERELEHAAYAADAKKHEEYVKSMSLVLMDKEEERHKLEQSLDTAKAELVK KEQELQLVKGNLDQKEKELENEELAKESAISDLTEQITAKKAEVEKLTQDLAA KSAEIQEKEAEKDRQQHMYEAFMSQYKEKVEKQEQELAKLKQLETINNNLLGN AKDMIAKLSAENEQLASDKAKLEEQNKISEASRKGLRRDLDASREAKKQVEKD LANLTAELDKVKEDKQISDASRKGLRRDLDASREAKKQVEKALEEANSKLAAL EKLNKELEESKKLTEKEKAELQAKLEAEAKALKEQLAKQAEELAKLRAGKASD SQTPDAKPGNKVVPGTGQAPQAGTKPNQNKAPMKETKRQLPSTGEAANPFFTA AALTVMATAGVAAVVKRKEENEAEFCRYPSHWRPRL