011619 EB3 pMCSG7 sequencing results:

yellow = overlap between forward and reverse reads

cyan = overlap with pMCSG7 vector

**EB3 #1**

T7 Forward:

NNNNNNNNNNNNNNTCTAGANTAATTTTGTTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATATTATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAAATCTGAGTCGCCATGATATGCTTGCATGGGTCAACGACTCCCTGCACCTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGCCTACTGCCAGTTCATGGACATGCTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGTTCCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAANGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCNNCATCATTGGCATCCTCTATGCCACAGANGAAGGANTCGCACCCCCTGAGGACGATGAGATTGAAGAGCATCAACAAGAANACCAGGACGANTACTGAAATATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAGCTNGCGNCNGCACTCGAGCACACCNCNCCACACTGAGATCCGGCTGCTAANNAGCCCGAANNNNCTGANTNNTGCTNCNNNCTGANATACTAGCATANCCCNNGGGNNCTAANNNNNGAGNNNTTTTGCTNNNNNNGANTANNTCNNATNNNNANGNNNNNNNNANNNNCATNNNNNNNNNNNNNNNNNNCNCNNNNNNNNNNCNNNNNNNN

T7 Reverse:

NNNNGGNNNNTNNNNNNTNNNNNCNNAAGNNGNNGANNCCNNTTNNNCNTNGGNGNNNNNNNNANNNNNNNNGNNNNNNNNNNGNGNNNNNGNGATNNNNNNNGATGNNNNNNNGTAGANGATNGAGATCGATNTNGATCCNNNGAAATTATNCGANTCNNTATAGGGGAATNGTGAGCGGNNNNNTCCCNTCTAGNANNAATTTTGTTTNACTTTAAGAAGGAGATATACATATGCACCATCATCNTCATCATTNTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTNCCAANCCAATATTATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAAATNTGAGTCGCCATGATATGCTTGCATGGGTCAACGACTCCNTGCACNTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGNNACTGCCAGTTCATGGACATGNTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGTTNCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAAGGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCAGGCATCATTGGCATCCTCTATGCCACAGAGGAAGGATTCGCACCCCCTGAGGACGATGAGATTGAAGAGCATCAACAAGAAGACCAGGACGAGTACTGAAATATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAANGNAGNNNNNNNNNN

**EB3 #2**

T7 Forward

NNNNNNNNNNNNNNNNNCTAGAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATATTATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAAATCTGAGTCGCCATGATATGCTTGCATGGGTCAACGACTCCCTGCACCTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGCCTACTGCCAGTTCATGGACATGCTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGTTCCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAANGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCANGCATCATTGGCATCCTCTATGCCACAGANGAANGATTCGCACCCCCTGAGGACGATGAGATTGAAGAGCATCAACAAGAANACCAGGACGAGTACTGAAATATTGGAAGTGGNTAACGGATCCGAATTCNAGCTNCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCANCACCACTGAGATCCGGCTGCTANNNAAGCCCGAANNNNCTGANNNNNGCTGCCNNCGCTGANATACTANCNNANCCCTTGGGGNNCNNNNGNNTGAGNNTTTTNNNTGAAGAGANNTANNTCNNATNNNANNGNNNNNNNNNNNNNNNCATNNNNNNNNNNNNNGNNNNNANNNNNNNNNNGNNNNNCCNNNNNNNNN

T7 Reverse

NNNNNNNNNNNGNNTNNNNNNNNNNNCNNAANNGNGNNNNNNCNNTNNNCNNNGNNNNTNNNNNNNNNNNNANNNNNNNNNCCNNNNGNNNGNNANNNNNNNNGANNNNNNNNNTNNNGATNNNNATNGATNTNGNNCNNNGAANNNTNCGANTNNNTATAGGGGAATNNTGAGCGGANNANNNNCCCNNNTNGAANNNNTTTNNTTTAACTTNAGNNNAGATATACATATGCNCCNNCATCATCATCATTNTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTNCAATNCAATATTATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAANTNTGAGTCGCCATGATATGCTTGCATGGNTCAACGACTCCCTGCACNTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGCCTACTGCCAGTTCATGGACATGCTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGTTNCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAAGGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCAGGCATCATTGGCATCCTCTATGCCACAGAGGAAGGATTCGCACCCCCTGAGGACGATGAGATTGAAGAGCATCAACAAGAAGACCAGGACGAGTACTGAAATATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGNNCGAANNNNNNNNNNNNNN

**EB3 #3**

T7 Forward

NNNNNNNNNNNNNNNNNCTANNNNNATTTTGTTTAACTTTAAGAAGGAGATATACATATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCAATATTATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAAATCTGAGTCGCCATGATATGCTTGCATGGGTCAACGACTCCCTGCACCTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGCCTACTGCCAGTTCATGGACATGCTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGTTCCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAANGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCANGCATCATTGGCATCCTCTATGCCACAGAGGAAGGATTCGCACCCCCTGAGGACGATGANATTGAAGAGCATCAACAAGAANACCAGGACGANTACTGAAATATTGGAAGTGNNAACGGATCCNAATTCGAGCTCCGTCGANAGCTTGNGNCGCACNTCGAGCACACACCACACNNCTGAGATCCGGCTGCTANNAAGCCCGAAANNNCTGANTNNNNGCTNCNACCGCTGANNATANTANCATACCCNNNNNNNTAANNNNNTGAGNNTTTTNGCNNNNAGACTANNTCNNATNNCNANGNNNNNNNNNANNNNNNATNNNNNNNNNNNNNNNNNTACNCNNNNNNNNNNNACNNNNNAN

T7 Reverse

NNNCCNNNNTTTNNCNNTNNNNNNNTNNNNNNNNTANNNNNNNNNNNNNCNNGNNNNNGNNANNNNNNNNNNNNNNNNGNGTNNNNNGATNGANATCGATNTNGATNCCNNNNNNNNNNNGNNTNCNNTATNGGNNNNNGANNCGGNNNNCAATNCCCCTNTAGAANNNNNTTNGNTNNACTTNAAGAAGNNGATNNTNCATNNNGCNCCATCATCATCATCATTCTTCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATNCCAATATNATGGCCGTCAATGTGTACTCCACATCTGTGACCAGTGAAAATCTGAGTCGCCATGATATGCTTGCATGGNTCAACGACTCCNTGCACNTCAACTATACCAAGATAGAACAGCTTTGTTCAGGGGCAGCNTACTGCCAGTTCATGGACATGNTCTTCCCCGGCTGTGTGCACTTGAGGAAAGTGAAGNTNCAGGCCAAACTAGAGCATGAATACATCCACAACTTCAAGGTGCTGCAAGCAGCTTTCAAGAAGATGGGTGTTGACAAAATCATTCCTGTAGAGAAATTAGTGAAAGGAAAATTCCAAGATAATTTTGAGTTTATTCAGTGGTTTAAGAAATTCTTTGACGCAAACTATGATGGAAAGGATTACAACCCTCTGCTGGCGCGGCAGGGCCAGGACGTAGCGCCACCTCCTAACCCAGGTGATCAGATCTTCAACAAATCCAAGAAACTCATTGGCACAGCAGTTCCACAGAGGACGTCCCCCACAGGCCCAAAAAACATGCAGACCTCTGGCCGGCTGAGCAATGTGGCCCCCCCCTGCATTCTCCGGAAGAATCCTCCATCAGCCCGAAATGGCGGCCATGAGACTGATGCCCAAATTCTTGAACTCAACCAACAGCTGGTGGACTTGAAGCTGACAGTGGATGGGCTGGAGAAGGAACGTGACTTCTACTTCAGCAAACTTCGTGACATCGAGCTCATCTGCCAGGAGCATGAAAGTGAAAACAGCCCTGTTATCTCAGGCATCATTGGCATCCTCTATGCCACAGAGGAAGGATTCGCACCCCCTGAGGACGATGAGATTGAAGAGCATCAACAAGAAGACCAGGACGAGTACTGAAATATTGGAAGTGGATAACGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGNNGNTAACAAAGCCCGAANNGNNNNNNNNNNNNNNN