

Sequences for the siRNAs

Mxi1 siRNA (m) is a pool of 3 different siRNA duplexes:

A:

- Sense: CACGUGGGGAAAUCAUCUATT
- Antisense: UAGAUGAUUUCCCCACGUGTT

B:

- Sense: CAGCUUUAACCAUCUGAUATT
- Antisense: UAUCAGAUGGUUAAAGCUGTT

C:

- Sense: GUUCCCUCUGUCUUUCAATT
- Antisense: UUUGAAAGACAGAGGGAATT

Note: all sequences are provided in 5' → 3' orientation.

FIR siRNA (m) is a pool of 3 different siRNA duplexes:

A:

- Sense: GCUUUGGAGCAGAUGAACUtt
- Antisense: AGUUCAUCUGCUCCAAAGCtt

B:

- Sense: CUAGGGCUUUAACCGAAUtt
- Antisense: AUUCGGUUGAAAGCCCUAGtt

C:

- Sense: GAACCGGGUCAUUAUCUAUtt
- Antisense: AUAGAUAAUGACCCGGUUCtt

Note: all sequences are provided in 5' → 3' orientation.

Sequences for the adenoviral vector (Ad-CMV-Atoh1-V5)

AAAGCGGATGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCATTTTCGCGGGAAAACCTGAATAAGAGGAAGTG
AAATCTGAATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTAGGGCCGCGGGGACTTTGACCGTTTACGTGGAGAC
TCGCCCAGGTGTTTTTCTCAGGTGTTTTCCGCGTTCCGGGTCAAAGTTGGCGTTTTATTATTATAGTCAGTCGAAGCTTG
GATCCGGTACCTCTAGAATTCTCGAGCGGCCGCTAGCGACATCGGATCTCCCATCCCCTATGGTGCACCTCTCAGTACAA
TCTGCTCTGATGCCGCATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGC GCGAGCAAA
ATTTAAGCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCG
CGATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTC
ATAGCCATATATGGAGTTCGCGTTACATAAATTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCGCCCA
TTGACGTCAATAATGACGTATGTTCCCATAGTAACGCAATAGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTTACG
GTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGC
CCGCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTTCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATT
ACCATGGTGTATGCGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTTGACTCACGGGGATTTCCAAGTCTCCACCC
CATTGACGTCAATGGGAGTTTTGTTTTGGCACAAAATCAACGGGACTTTCCAATAATGTCGTAACAACCTCCGCCCCATTGA
CGAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTAC
TGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTGGCTAGTTAAGCTATCAACAAGTTTTGTACAAAAA
GCAGGCTCCACCATGTCCCGCTGCTGCATGCAGAAGAGTGGGCTGAAGTGAAGGAGTTGGGAGACCACCATCGCCAGCC
CCAGCCGCATCATCTCCC GCAACCGCCGCGCCGCGCCGAGCCACCTGCAACTTTGCAGGCGAGAGAGCATCCCGTCTACC
CGCTGAGCTGTCCCTCCTGGACAGCACCGACCCACGCGCCTGGCTGGCTCCCACTTTGCAGGGCATCTGCACGGCACGC
GCCGCCAGTATTTGCTACATTTCCCGGAGCTGGGTGCCTCAGAGGCCGCTGCGCCCCGGGACGAGGTGGACGGCCGGGG
GGAGCTGGTAAGGAGGAGCAGCGGCGGTGCCAGCAGCAGCAAGAGCCCCGGGCGGTGAAAGTGCGGGAACAGCTGTGCA
AGCTGAAAGGCGGGTGGTGGTAGACGAGCTGGCTGCAGCCGCCAACGGGCCCTTCCAGCAAACAGGTGAATGGGGTG
CAGAAGCAGAGACGGCTAGCAGCCAACGCCAGGGAGCGGCGCAGGATGCATGGGCTGAACCACGCCTTCGACCAGCTGCG
CAATGTTATCCCGTCGTTCAACAACGACAAGAAGCTGTCCAAATATGAGACCCTGCAGATGGCCCAAATCTACATCAACG
CCTTGTCCGAGCTGCTACAAACGCCAGCGGAGGGGAACAGCCACC GCGCCTCCAGCCTCCTGCAAAAGCGACCACCAC
CACCTTCGACCCGCGCCTCCTATGAAGGGGGCGGGCAACGCGACCCGAGCTGGGGCTCAGCAGGCTTCCGGAGGGAG
CCAGCGGCCGACCCCGCCGGGAGTTGCCGGACTCGCTTCTCAGCCCCAGCTTCTGCGGGAGGGTACTCGGTGCAGCTGG
ACGCTCTGCACCTTCTCGACTTTTCGAGGACAGCGCCCTGACAGCGATGATGGCGCAAAAGAATTTGTCTCCTTCTCTCCCC
GGGAGCATCTTGCAGCCAGTGCAGGAGGAAAACAGCAAAACTTCGCCTCGGTCCACAGAAGCGACGGGGAATTTTCCCC
CCATTCCCATTACAGTGACTCGGATGAGGCAAGTTTGGACCCAGCTTTCTTGTACAAAGTGGTTGATCTAGAGGGCCCCG
GGTTCGAAGGTAAGCCTATCCCTAACCTCTCCTCGGTCTCGATTCTACGCGTACC GGTAGTAATGAGTTTTAAACGGGG
GAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGC
ACGGGTGTTGGGTGCTTTGTTTCATAAACGCGGGGTTCCGGTCCCAGGGCTGGCACTCTGTGATACCCACCCGAGACCCCA
TTGGGCCAATACGCCCCGCTTTCTTCTTTTCCCCACCCCAACCCCAAGTTTCGGGTGAAGGCCAGGGCTCGCAGCCA
ACGTCGGGGCGGCAGGCCCTGCCATAGCAGATCCGATTTCGACAGATCACTGAAATGTGTGGGCGTGGCTTAAGGGTGGGA
AAGAATATATAAGGTGGGGTCTTATGTAGTTTTGTATCTGTTTTG CAGCAGCCCGCCGCCATGAGACCAACTCGTT
TGATGGAAGCATTGTGAGCTCATATTTGACAACGCGCATGCCCCATGGGCGGGGTGCGTCAGAATGTGATGGGCTCCA
GCATTGATGGTGC CCCCCTCCTGCCCGCAAACCTCTACTACCTTGA

4-230: human Ad5 228-454
507-1090: hCMV-IE promoter/enhancer
1135-1151: T7 promoter
1213-2273: human ATOH1 ORF
2329-2370: V5 tag
2380-2388: Stop codon 3x
2688-2925: human Ad5 3513-3750