

OMTN, Volume 20

Supplemental Information

sgRNA-PSM: Predict sgRNAs On-Target Activity Based on Position-Specific Mismatch

Bin Liu, Zihua Luo, and Juan He

Online Supporting Information S1. This benchmark dataset \mathcal{S} consists of 5310 guide sequences targeting 11 human genes (CD13, CD15, CD33, CCDC101, MED12, TADA2B, TADA1, HPRT, CUL3, NF1, NF2) and 6 mouse genes (Cd45, Cd28, Cd43, Cd5, H2-K, Thy1). There are 1059 high on-target activity sgRNAs, and 4251 low on-target activity sgRNAs. See the text of the paper for further explanation.

(1) \mathcal{S}_1^+ : 78 high on-target activity sgRNAs targeting CD13

```

>CD13_HsgRNA1
ATTGAAGAGAGACAGTACATGCCCTGGGAG
>CD13_HsgRNA2
TGACAATGAAGGCCAGCAAGTACGTGGACA
>CD13_HsgRNA3
GTGGAATGACCTGTGGCTGAACGAGGGCTT
>CD13_HsgRNA4
CAGCACCCAGGTACTCCACGTAGGAGGCGA
>CD13_HsgRNA5
GGGAACCTGGTGACCATAGAGTGGTGGAAAT
>CD13_HsgRNA6
GTGAACTACGACGAAGAGAAGTGGAGGAAG
>CD13_HsgRNA7
TGGAACTCAGTGACATTCCAGTTGGGGTCT
>CD13_HsgRNA8
TCGCACTGTCAGTGGTGTACTCCCAGGAGA
>CD13_HsgRNA9
TTGAAGAGAGACAGTACATGCCCTGGGAGG
>CD13_HsgRNA10
AGTCAGCACCCAGGTACTCCACGTAGGAGG
>CD13_HsgRNA11
GGGAAGCCCATCTGCAGGGTCCAGCGGTTC
>CD13_HsgRNA12
TCTCATACTGGCTGTCCTTACCAGGGAGC
>CD13_HsgRNA13
GGTCATCACGGTGGATAACCAGCACGGGGAC
>CD13_HsgRNA14
TCTTCAGCACATCAGGCAATGAGTGGGTCC
>CD13_HsgRNA15
TCAACATCACGCTTATCCACCCCAAGGACC
>CD13_HsgRNA16
CGGTCATCACGGTGGATAACCAGCACGGGGA
>CD13_HsgRNA17
CCATCCAACCTCCCACCACCGTGCGGGACA
>CD13_HsgRNA18
CACACCAGGATCCACCCCAACCTGCGGTCC

```

>CD13_HsgRNA19
TGTGCCCATCACATCCATCAGAGATGGCAG
>CD13_HsgRNA20
TGCACCTCAAGGGCTCCCTGGTGAAGGACA
>CD13_HsgRNA21
ACCACCTTGGACCAAAGTAAAGCGTGAAT
>CD13_HsgRNA22
TGAACGAGGGCTTCGCCTCCTACGTGGAGT
>CD13_HsgRNA23
GGGCCGGCGTGTGATCTCCGAGGCGGGTG
>CD13_HsgRNA24
TGGCCGGCTCATCGAAGCATGGGAAGGACT
>CD13_HsgRNA25
AGGACGTATTC AAGCAGGGCCTGGCGGTGA
>CD13_HsgRNA26
GCACCGTCCGTTTCACCTGCAAGGAGGCCA
>CD13_HsgRNA27
ACCGCGTGATGGCAGTGGATGCACTGGCCT
>CD13_HsgRNA28
CCGTCTACTGCAACGCTATCGCCCAGGGCG
>CD13_HsgRNA29
TCTCCTCACACTCTGGA ACTCCGTTGGAGC
>CD13_HsgRNA30
TGGTGAAGGACAGCCAGTATGAGATGGACA
>CD13_HsgRNA31
TGATGACCGGAAGCCCATCTGCAGGGTCC
>CD13_HsgRNA32
AAGAGAGACAGTACATGCCCTGGGAGGCCG
>CD13_HsgRNA33
ATGAGATGGACAGCGAGTTCGAGGGGGAGT
>CD13_HsgRNA34
TACTGCAACGCTATCGCCCAGGGCGGGAG
>CD13_HsgRNA35
CAACGCCGGCGCCATGGAGAACTGGGGACT
>CD13_HsgRNA36
TCCAGCGTTTCATGATGTCCCGCACGGTGG
>CD13_HsgRNA37
TCAAGCTCATGTTTGACCGCTCCGAGGTCT
>CD13_HsgRNA38
GTGGGCTCCGCATAGTCAGCACCCAGGTAC
>CD13_HsgRNA39
GGATGCTCTCCAGCTTCTGTCCGAGGACG
>CD13_HsgRNA40
CCCTGCTTGAATACGTCCTCGGACAGGAAG

>CD13_HsgRNA41
TGGTGGAGCCCACCGAGTACCTGGTGGTGC
>CD13_HsgRNA42
TCTGGGCCGGCGTGTGATCTCCGAGGCGG
>CD13_HsgRNA43
GATTGGCCTGCCAGACTTCAACGCCGGCGC
>CD13_HsgRNA44
CCGAGGCGGGTGTGGACAGCGGGTGGGAGG
>CD13_HsgRNA45
AGATGGGCTTCCCGGTCATCACGGTGGATA
>CD13_HsgRNA46
ACCCGGTAATAGCCCGTCACATTGAGGTTC
>CD13_HsgRNA47
GTGAGGTACGGTCTCAGCGTCACCCGGTAG
>CD13_HsgRNA48
GAGGGGTGGCAGACACTCACCGAGTGGTCT
>CD13_HsgRNA49
GCAAGTACGTGGACATCTTGGGCGTGGTGT
>CD13_HsgRNA50
TGCAGTAGACGGTGGACCGCAGGTTGGGGT
>CD13_HsgRNA51
TGAAGTAGCTCAGGCTGCTCAGGGCGGCCT
>CD13_HsgRNA52
CGTAGTCGAACTCACTGACAATGAAGCCA
>CD13_HsgRNA53
GCCAGTGCATCCACTGCCATCACGCGGTAC
>CD13_HsgRNA54
CTACGTGGAGAAGCAGGCATCCAATGGTGT
>CD13_HsgRNA55
AGCGGTTCATGATGTCCCGCACGGTGGTGG
>CD13_HsgRNA56
CTCCGTTGGAGCAGGCGGTGCTGATGGCAT
>CD13_HsgRNA57
ACCATAGAGTGGTGAATGACCTGTGGCTG
>CD13_HsgRNA58
AAGCTCAACTACACCCTCAGCCAGGGGCAC
>CD13_HsgRNA59
GTCATCACGGTGGATACCAGCACGGGGACC
>CD13_HsgRNA60
CTCTTCAGCACATCAGGCAATGAGTGGGTC
>CD13_HsgRNA61
AGACTCAGCTGCAGAGAGACCACTCGGTGA
>CD13_HsgRNA62
CAGCTCAGTCTTGTCAATGTCGGGGGGCTG

>CD13_HsgRNA63
 TCCATCCAAC TCCCCACCACCGTGCGGGAC
 >CD13_HsgRNA64
 GATCTCCGAGGCGGGTGTGGACAGCGGGTG
 >CD13_HsgRNA65
 AGCATCCTGAGGACTGAGGCGCCCTGGGGT
 >CD13_HsgRNA66
 ACTGTCTCTCTTCAATCAGGAAGAGGGTGT
 >CD13_HsgRNA67
 CAGTTCTCTTCGTCGTAGTTCACCCGGTAA
 >CD13_HsgRNA68
 ATGATCTGTGCCCGATTGATGACAGGGATG
 >CD13_HsgRNA69
 GTGATGACCGGAAGCCCATCTGCAGGGTC
 >CD13_HsgRNA70
 GAGGTGCACCACCAGGTACTCGGTGGGCTC
 >CD13_HsgRNA71
 ACCATGCACCTCCGTACCTTCATGGGGCCA
 >CD13_HsgRNA72
 ACTCTGGAAC TCCGTTGGAGCAGGCGGTGC
 >CD13_HsgRNA73
 TTCATGGCCGGCTCATCGAAGCATGGGAAG
 >CD13_HsgRNA74
 CAGCTGGCTTACCAAGTTCAGGTGGGCTC
 >CD13_HsgRNA75
 TTCATGGGGCCATAGACCTCGGAGCGGTCA
 >CD13_HsgRNA76
 GTGCTGGTATCCACCGTGATGACCGGGAAG
 >CD13_HsgRNA77
 ATGATGTGTACCGCGTGATGGCAGTGGATG
 >CD13_HsgRNA78
 GTGTTGTTTCAGCGCCAGAGTGACAGGGACC

(2) S_2^+ : 55 high on-target activity sgRNAs targeting CD15

>CD15_HsgRNA1
 TGTGACCGTGGACGTGTTCCGGCCGGGGCGG
 >CD15_HsgRNA2
 TAGGACGCGCGGTTCGGTGAGCAGGCGGCAG
 >CD15_HsgRNA3
 GTCCACGTGGATGAAGGCGCCGCGGGGCAC
 >CD15_HsgRNA4
 ACCAACTGAGCCAACATGTGACCGTGGACG
 >CD15_HsgRNA5
 CGCCACTGTCCAGGAAACAGGGGCTGGTGG

>CD15_HsgRNA6
CACCAGCCCCTGTTTCCTGGACAGTGGCGG
>CD15_HsgRNA7
CGGTAGGAGAGCGTCCAGTTGAAGAGGTTA
>CD15_HsgRNA8
TTCGAGTCGCCCTCGCACTCCCCGGGGCTG
>CD15_HsgRNA9
CATCCAAACCCAGCGCTGGCCCCGGGGGCCT
>CD15_HsgRNA10
GGCACAAAGACGTCCGAGTCCGCCCGGTAG
>CD15_HsgRNA11
TCTTCAACTGGACGCTCTCTACCGGGCGG
>CD15_HsgRNA12
CTCCCACCACAGCAGCACGCCACCGGTCCG
>CD15_HsgRNA13
AAAGCACGGCCTGAGCCTCTCCGTAGGACG
>CD15_HsgRNA14
GAGGCACTTGGGAAGTCGTCCACGTGGATG
>CD15_HsgRNA15
GTCCGAACCCCGTCGCGACCGGTGGGCGT
>CD15_HsgRNA16
GGCACCAAGGCTCGTCCCAGAAGGAGGTGA
>CD15_HsgRNA17
TTTTCCACCACCGCGACCTCGTGAAGGGGC
>CD15_HsgRNA18
TCGTCCACGTGGATGAAGGCGCCGCGGGGC
>CD15_HsgRNA19
AGGCCCCCGGGCCAGCGCTGGGTTTGGATG
>CD15_HsgRNA20
CAGCCCCTGTTTCCTGGACAGTGGCGGGGC
>CD15_HsgRNA21
GGCCCCGCCACTGTCCAGGAAACAGGGGCT
>CD15_HsgRNA22
GGGGCCTGGGGCTGGAGGTGCCAGGGCTT
>CD15_HsgRNA23
TCACCGACCGCGCTCCTACGGAGAGGCTC
>CD15_HsgRNA24
GCCCCGAGGCCGCCCTGACTGCCGGCTG
>CD15_HsgRNA25
GCTTCGCAGCCCCGGGGAGTGCGAGGGCGA
>CD15_HsgRNA26
GCCCCGCCACTGTCCAGGAAACAGGGGCTG
>CD15_HsgRNA27
ACCGCGCTCCTACGGAGAGGCTCAGGCCG

>CD15_HsgRNA28
GAGCCTCTCCGTAGGACGCGCGGTTCGGTGA
>CD15_HsgRNA29
GCCACTGGGACGAGCGCCAGGCCCGGGTCC
>CD15_HsgRNA30
GCCCTGTTTCCTGGACAGTGGCGGGGCCA
>CD15_HsgRNA31
ACGACTTCCCAAGTGCCTCCTCCCTGGCCT
>CD15_HsgRNA32
GCCTGAGCCTCTCCGTAGGACGCGCGGTTCG
>CD15_HsgRNA33
CGTCGCCAACCCCGTCGCGACCGGTGGGCG
>CD15_HsgRNA34
GCCCGCCCCGGCCGAACACGTCCACGGTCA
>CD15_HsgRNA35
GGGGGCCCTTCACGAGGTTCGCGGTGGTGG
>CD15_HsgRNA36
TATCGCCGCTACTTCCACTGGCGCCGGAGC
>CD15_HsgRNA37
AGTGGCGGGCCAGGCCTGAGGGCGGGTTCG
>CD15_HsgRNA38
TGCTGCTGTGGTGGGAGCCCTTCGGGGGGC
>CD15_HsgRNA39
TGGTGGCATGGGTGGTGGAGCCACTGGGACG
>CD15_HsgRNA40
ACCCGGGCTGGCGCTCGTCCCAGTGGCTC
>CD15_HsgRNA41
TCGGGGGGCCCTTCACGAGGTTCGCGGTGG
>CD15_HsgRNA42
GACCGGTGGGCGTGCTGCTGTGGTGGGAGC
>CD15_HsgRNA43
GCGGGGTTGCGGTTCGAGGAAAAGCAGGTAC
>CD15_HsgRNA44
TGCGGTTCGAGGAAAAGCAGGTACGAGGCCA
>CD15_HsgRNA45
CGAGGTTCGCGGTGGTGGAAAAGCACGGCCT
>CD15_HsgRNA46
GGCAGTGTGCGCCTGGATGCCCCAGGGCGG
>CD15_HsgRNA47
CTCAGTTGGTGGTAGTAGCGGACCCGGGCC
>CD15_HsgRNA48
CAACTACGAGCGCTTTGTGCCCCGCGGCGC
>CD15_HsgRNA49
CTCTTCAACTGGACGCTCCTACCGGGCG

>CD15_HsgRNA50
 ACGGTCACATGTTGGCTCAGTTGGTGGTAG
 >CD15_HsgRNA51
 TAGCTCCGGCGCCAGTGGAAAGTAGCGGCGA
 >CD15_HsgRNA52
 GGCTTCGCAGCCCCGGGAGTGCGAGGGCG
 >CD15_HsgRNA53
 GAGGTGATGTGGACAGCGTAGCTCCGGGCGC
 >CD15_HsgRNA54
 TACTTGCCAGGCTTCGCAGCCCCGGGAGT
 >CD15_HsgRNA55
 AACTTGTAGCGGGCCACTGTGTGCAGGAGC

(3) S_3^+ : 28 high on-target activity sgRNAs targeting CD33

>CD33_HsgRNA1
 CCTCATCCCTGGCACTCTAGAACCCGGCCA
 >CD33_HsgRNA2
 GGGTATGGGATGGAAGAAAGTGCAGGGCAC
 >CD33_HsgRNA3
 ACAGCCACTCACCTGCCCACAGCAGGGGCA
 >CD33_HsgRNA4
 TCCTCCTGGCGTCTACGATGCTCAGGGAGC
 >CD33_HsgRNA5
 TCCTCGGTGCTCATAATCACCCCACGGCCC
 >CD33_HsgRNA6
 CCCGGAACCAGTAACCATGAACTGGGGAGT
 >CD33_HsgRNA7
 AGCTGACAACCAGGAGAAGATCGGGGGTGT
 >CD33_HsgRNA8
 GCAGGAGTCAGTGACGGTACAGGAGGGTTT
 >CD33_HsgRNA9
 GGCTGCAAGTGCAGGAGTCAGTGACGGTAC
 >CD33_HsgRNA10
 AAGTGCAGGAGTCAGTGACGGTACAGGAGG
 >CD33_HsgRNA11
 CTGAGCATCGTAGACGCCAGGAGGAGGGAT
 >CD33_HsgRNA12
 TGGTGCCGTGGTCCCTGGGGCCGTGGGGTGA
 >CD33_HsgRNA13
 TCCC GGAACCAGTAACCATGAACTGGGGAG
 >CD33_HsgRNA14
 GGATGGAAGAAAGTGCAGGGCACGAGGACG
 >CD33_HsgRNA15
 TGCAGGAGTCAGTGACGGTACAGGAGGGTT

>CD33_HsgRNA16
 GAGTGGCCGGGTTCTAGAGTGCCAGGGATG
 >CD33_HsgRNA17
 ACCTGTCACATGCACAGAGAGCTGGGGAGA
 >CD33_HsgRNA18
 GGGAGTTCTTGTTCGTAGTAGGGTATGGGAT
 >CD33_HsgRNA19
 CCATTATATCCAGGGACTCTCCAGTGGCCA
 >CD33_HsgRNA20
 AGGGTATGGGATGGAAGAAAGTGCAGGGCA
 >CD33_HsgRNA21
 CTCCTCCTGGCGTCTACGATGCTCAGGGAG
 >CD33_HsgRNA22
 CAGCTGACAACCAGGAGAAGATCGGGGGTG
 >CD33_HsgRNA23
 TCCCTGAGCATCGTAGACGCCAGGAGGAGG
 >CD33_HsgRNA24
 GCCGTGGGGTGATTATGAGCACCGAGGAGT
 >CD33_HsgRNA25
 CACCTGTCACATGCACAGAGAGCTGGGGAG
 >CD33_HsgRNA26
 TTCTTGTTCGTAGTAGGGTATGGGATGGAAG
 >CD33_HsgRNA27
 TGTTTGTGGCCACTGGAGAGTCCCTGGATA
 >CD33_HsgRNA28
 CAGTTGTTCCCTACTGGGATCCCCAAGGAGG

(4) S_4^+ : 30 high on-target activity sgRNAs targeting CCDC101

>CCDC101_HsgRNA1
 ACACAACCGCCAAGGCCGATGCAGAGGCTG
 >CCDC101_HsgRNA2
 CTCTACAATGACTCGGAGCCACCCCGGAAG
 >CCDC101_HsgRNA3
 ACTCAGCCTCTGCATCGGCCTTGGCGGTTG
 >CCDC101_HsgRNA4
 AAACAGGACCGAGTAGTCATCCTGGGGCTG
 >CCDC101_HsgRNA5
 CTGGAGGCTGCTTTACCCGCTGTGGGGGCG
 >CCDC101_HsgRNA6
 ATCAAGTCTCTGTTGGAAGAGAGGCGGATT
 >CCDC101_HsgRNA7
 TGGCATGGCTGTAAGTACCACCTCGGCCA
 >CCDC101_HsgRNA8
 CCCTCAGCATCCTTCGAAAGCTCTGGACA

>CCDC101_HsgRNA9
CAAACAGGACCGAGTAGTCATCCTGGGGCT
>CCDC101_HsgRNA10
GTGTCATCCCGCTGCCCCAGTGGAAGGCCA
>CCDC101_HsgRNA11
GGGTCATGGCCGACTGCTGCAGCAGGGTCA
>CCDC101_HsgRNA12
TGTTCCAGAAGGAGCAGCTCGTGCTGGCCC
>CCDC101_HsgRNA13
GTCACCAGGCTTCCCGATCCACAGGGGCAG
>CCDC101_HsgRNA14
CACCCCGGAAGACCATGCGCAGAGGGGTGC
>CCDC101_HsgRNA15
GGCGCGGTAGAAGCAGGTAGTCTGGGGATA
>CCDC101_HsgRNA16
ATGGCTATTCCCCTCCCCTCAATGTGGCTC
>CCDC101_HsgRNA17
ATCTCTGAGCCACATTGAGGGGAGGGGAAT
>CCDC101_HsgRNA18
CCCCTGTGGGGGCGCATGGATCAGGGCGC
>CCDC101_HsgRNA19
TTCGAAAGCTCTGGACAAGATCGCGAAA
>CCDC101_HsgRNA20
CCTGGAGGCTGCTTTACCCGCTGTGGGGGC
>CCDC101_HsgRNA21
CATGGATCAGGGCGCGGTAGAAGCAGGTAG
>CCDC101_HsgRNA22
AGAAGCAGGTAGTCTGGGGATACAGGGCCA
>CCDC101_HsgRNA23
ACGAGCAGTGGATCCTGGCCGAGGTGGTCA
>CCDC101_HsgRNA24
AGCGGGATGACACGGCGCCGGCTCAGGGTG
>CCDC101_HsgRNA25
TGGAGGCTGCTTTACCCGCTGTGGGGGCGC
>CCDC101_HsgRNA26
TCCATCAGCTGATCAAACAAACCCAGGTAA
>CCDC101_HsgRNA27
CGTCTCCGGGTTGGCCTTCCACTGGGGCAG
>CCDC101_HsgRNA28
TATCTCTGAGCCACATTGAGGGGAGGGGAA
>CCDC101_HsgRNA29
CAGGTCTGGCCACGTAGTCTCCTGAGGCAG
>CCDC101_HsgRNA30
GCGATCTTGTCCAGAGCTTTCCGAAGGATG

(5) S_5^+ : 370 high on-target activity sgRNAs targeting MED12

>MED12_HsgRNA1
TGCTAAACTGCCACCTCAGTCCAGGGACA
>MED12_HsgRNA2
TGCTAAACTGCCACCTCAGTCCAGGGACA
>MED12_HsgRNA3
CGATAAATGCCAGGAAGCTACTGCAGGTAT
>MED12_HsgRNA4
CGATAAATGCCAGGAAGCTACTGCAGGTAT
>MED12_HsgRNA5
TCAAAACACTCAAGCACCCAGGTCAGGAAC
>MED12_HsgRNA6
TCAAAACACTCAAGCACCCAGGTCAGGAAC
>MED12_HsgRNA7
GAGGAACAGAAGAAGCTTCCAGAGGAGGAGG
>MED12_HsgRNA8
CTTCAACCCCTCAAAAAGATCCCAGGGCGA
>MED12_HsgRNA9
AAGGAAGACTGGCGCATGGTCCACTGGTCC
>MED12_HsgRNA10
AAGGAAGACTGGCGCATGGTCCACTGGTCC
>MED12_HsgRNA11
AAGCAAGGATACAGCGCTCTGCAGAGGAGC
>MED12_HsgRNA12
CGCAAAGGGACAGCAGAACTGGTGGGTTT
>MED12_HsgRNA13
CGCAAAGGGACAGCAGAACTGGTGGGTTT
>MED12_HsgRNA14
TGAAAAGGTGAAGGAGGATGCGGCAGGTAA
>MED12_HsgRNA15
TGAAAAGGTGAAGGAGGATGCGGCAGGTAA
>MED12_HsgRNA16
GCCAAATACACAGTGCCTGTGATGCGGGCT
>MED12_HsgRNA17
GCCAAATACACAGTGCCTGTGATGCGGGCT
>MED12_HsgRNA18
GCAAAACACGGCTCCATCCACGATGCGGTTC
>MED12_HsgRNA19
GCAAAACACTGCCGAGCGATGAGGATGGCAA
>MED12_HsgRNA20
GCAAAACACTGCCGAGCGATGAGGATGGCAA
>MED12_HsgRNA21
GTGTACAGAAGTAGGCAAGCCGGCGGGACA

>MED12_HsgRNA22
GTGTACAGAAGTAGGCAAGCCGGCGGGACA
>MED12_HsgRNA23
CTGGACAGACATGAGTTCCTGACCTGGGTG
>MED12_HsgRNA24
CTGGACAGACATGAGTTCCTGACCTGGGTG
>MED12_HsgRNA25
GTGTACAGATCATAGAGATAAGCAAGGATA
>MED12_HsgRNA26
GTGTACAGATCATAGAGATAAGCAAGGATA
>MED12_HsgRNA27
GGATACAGCTGAGGCCAAAAACCAGGGGCC
>MED12_HsgRNA28
GGATACAGCTGAGGCCAAAAACCAGGGGCC
>MED12_HsgRNA29
AGGCACAGGTCATCTTAATGAGCCAGGCAG
>MED12_HsgRNA30
AGGCACAGGTCATCTTAATGAGCCAGGCAG
>MED12_HsgRNA31
TGTTACCCTCTGGCATGGGCAGGTTGGACG
>MED12_HsgRNA32
TGTTACCCTCTGGCATGGGCAGGTTGGACG
>MED12_HsgRNA33
TGCCACCTCTACATCATGGGGCAAGGGCCC
>MED12_HsgRNA34
TGCCACCTCTACATCATGGGGCAAGGGCCC
>MED12_HsgRNA35
ACTGACGGCCTTGAATGTAAAAACAAGGTTT
>MED12_HsgRNA36
ACTGACGGCCTTGAATGTAAAAACAAGGTTT
>MED12_HsgRNA37
TGGCACTCACCTGCAGGTAGTGGCTGGTTC
>MED12_HsgRNA38
CTGCACTCAGTGACTTGCAATAGCCGGTCA
>MED12_HsgRNA39
TAAGACTCTTGCCTAGCCCCGTGTAGGTGA
>MED12_HsgRNA40
TAAGACTCTTGCCTAGCCCCGTGTAGGTGA
>MED12_HsgRNA41
TCCCCTGACCCTTATCAGGTCTCCCGGAAT
>MED12_HsgRNA42
TCCCCTGACCCTTATCAGGTCTCCCGGAAT
>MED12_HsgRNA43
GTATACTTGCACTCTCATCTCCCGAGGGGA

>MED12_HsgRNA44
GTATACTTGCACTCTCATCTCCCGAGGGGA
>MED12_HsgRNA45
GTGCAGAATGGCTAGGAGTGCTTAAGGCCT
>MED12_HsgRNA46
GTGCAGAATGGCTAGGAGTGCTTAAGGCCT
>MED12_HsgRNA47
GAAGAGACATGTTGACCCTTTCATGGGTGA
>MED12_HsgRNA48
GAAGAGACATGTTGACCCTTTCATGGGTGA
>MED12_HsgRNA49
ACGGAGACTGGCCCTGCAGCTGGATGGTGT
>MED12_HsgRNA50
ACGGAGACTGGCCCTGCAGCTGGATGGTGT
>MED12_HsgRNA51
GACCAGATGGCACAGGTCTTTGAGGGGTAA
>MED12_HsgRNA52
GACCAGATGGCACAGGTCTTTGAGGGGTAA
>MED12_HsgRNA53
CACCAGCATTAAAGGAGTGAAGGGATGGCAG
>MED12_HsgRNA54
CACCAGCATTAAAGGAGTGAAGGGATGGCAG
>MED12_HsgRNA55
AATGAGCCAGGCAGCCCGCATCACAGGCAC
>MED12_HsgRNA56
AATGAGCCAGGCAGCCCGCATCACAGGCAC
>MED12_HsgRNA57
CAATAGCCGGTCAGCTCTGCACACAGGATT
>MED12_HsgRNA58
CAATAGCCGGTCAGCTCTGCACACAGGATT
>MED12_HsgRNA59
ATGGAGCCGTGTTTGCTGTTCTCAAGGCTG
>MED12_HsgRNA60
ATGGAGCCGTGTTTGCTGTTCTCAAGGCTG
>MED12_HsgRNA61
ACACAGCCTTGAGAACAGCAAACACGGCTC
>MED12_HsgRNA62
ACACAGCCTTGAGAACAGCAAACACGGCTC
>MED12_HsgRNA63
TGTTAGGAGTTACTCACCCATGAAAGGGTC
>MED12_HsgRNA64
TGTTAGGAGTTACTCACCCATGAAAGGGTC
>MED12_HsgRNA65
AATGAGGATGGGGAAAACCCCCAGCGGCAG

>MED12_HsgRNA66
AATGAGGATGGGGAAAACCCCCAGCGGCAG
>MED12_HsgRNA67
ACCAAGGCACTAGGACAGCACAGGAGGATG
>MED12_HsgRNA68
ACCAAGGCACTAGGACAGCACAGGAGGATG
>MED12_HsgRNA69
CTGAAGGCAGCAGCAGCAGCAAGCTGGAAG
>MED12_HsgRNA70
ACTGAGGTGGGCAGTTTAGCAATGAGGGGG
>MED12_HsgRNA71
CCAAAGTATGAAGTACCCGTCCAATGGTGA
>MED12_HsgRNA72
CCAAAGTATGAAGTACCCGTCCAATGGTGA
>MED12_HsgRNA73
GTTTCAGTCTGCATACCTGTCCCGCCGGCTT
>MED12_HsgRNA74
GTTTCAGTCTGCATACCTGTCCCGCCGGCTT
>MED12_HsgRNA75
TGAGAGTGCAAGTATACATGTTGTGGGAGA
>MED12_HsgRNA76
GCGCATAAAGCGCATTCTCCAGGTAGGCCA
>MED12_HsgRNA77
GCGCATAAAGCGCATTCTCCAGGTAGGCCA
>MED12_HsgRNA78
CCAAATACACAGTGCCTGTGATGCGGGCTG
>MED12_HsgRNA79
CCAAATACACAGTGCCTGTGATGCGGGCTG
>MED12_HsgRNA80
CTCCATCCACGATGCGGTTCTGGGAGGCAG
>MED12_HsgRNA81
CGCAATCCTGTGTGCAGAGCTGACCGGCTA
>MED12_HsgRNA82
CGCAATCCTGTGTGCAGAGCTGACCGGCTA
>MED12_HsgRNA83
CCCCATGATGTAGAGGTGGCAATCCGGCAG
>MED12_HsgRNA84
CCCCATGATGTAGAGGTGGCAATCCGGCAG
>MED12_HsgRNA85
CAGGATTGCGATGTCATTACCCCTAGGGAA
>MED12_HsgRNA86
CAGGATTGCGATGTCATTACCCCTAGGGAA
>MED12_HsgRNA87
TGCCATTGTTAGAGGAGCAGCACAAGGCCT

>MED12_HsgRNA88
TGCCATTGTTAGAGGAGCAGCACAAAGGCCT
>MED12_HsgRNA89
CCACCAAACAGAAGATCTCGCCCTGGGATC
>MED12_HsgRNA90
ACCCCAAACAGTACGACCAACCGCTGGTTG
>MED12_HsgRNA91
ACCCCAAACAGTACGACCAACCGCTGGTTG
>MED12_HsgRNA92
TTAGCAAAGATATCTTCAGCAGTGGGGAAG
>MED12_HsgRNA93
GCTTCAACCCCTCAAAAAGATCCCAGGGCG
>MED12_HsgRNA94
GAGGCAAGTGGTATGACATGCCAAGGGCAA
>MED12_HsgRNA95
GAGGCAAGTGGTATGACATGCCAAGGGCAA
>MED12_HsgRNA96
TAGGCAAGTGGTCAAGTGGTGAGCCGGTCT
>MED12_HsgRNA97
TAGGCAAGTGGTCAAGTGGTGAGCCGGTCT
>MED12_HsgRNA98
GCAGCACAGCGAATCAGATCTTCCAGGAGC
>MED12_HsgRNA99
GCAGCACAGCGAATCAGATCTTCCAGGAGC
>MED12_HsgRNA100
TTAACACATGTCCCTGGACTGAGGTGGGCA
>MED12_HsgRNA101
AGTTCACCAGCATTAAAGGAGTGAAGGGATG
>MED12_HsgRNA102
AGTTCACCAGCATTAAAGGAGTGAAGGGATG
>MED12_HsgRNA103
TTGCCACCTCTACATCATGGGGCAAGGGCC
>MED12_HsgRNA104
TTGCCACCTCTACATCATGGGGCAAGGGCC
>MED12_HsgRNA105
CACCCAGAACCAGCCACTACCTGCAGGTGA
>MED12_HsgRNA106
TGGTCAGACATACCTGCTGAGTGAAGGCAC
>MED12_HsgRNA107
TGGTCAGACATACCTGCTGAGTGAAGGCAC
>MED12_HsgRNA108
TGGACAGACATGAGTTCCTGACCTGGGTGC
>MED12_HsgRNA109
TGGACAGACATGAGTTCCTGACCTGGGTGC

>MED12_HsgRNA110
GATACAGCTGAGGCCAAAAACCAGGGGCCG
>MED12_HsgRNA111
GATACAGCTGAGGCCAAAAACCAGGGGCCG
>MED12_HsgRNA112
GGGCCAGTCTCCGTGTACAGAAGTAGGCAA
>MED12_HsgRNA113
CAGTCAGTGAGTAGTGCCAAACCAAGGCAC
>MED12_HsgRNA114
CAGTCAGTGAGTAGTGCCAAACCAAGGCAC
>MED12_HsgRNA115
TCAGCAGTGGGAAGGCTTCAGGCCGTTG
>MED12_HsgRNA116
TCAGCAGTGGGAAGGCTTCAGGCCGTTG
>MED12_HsgRNA117
GCCTCATCCTCAACCAGGACCAGATGGCAC
>MED12_HsgRNA118
GCCTCATCCTCAACCAGGACCAGATGGCAC
>MED12_HsgRNA119
AGAACATCGCCAAGGCCACAATCGAGGTTT
>MED12_HsgRNA120
AGAACATCGCCAAGGCCACAATCGAGGTTT
>MED12_HsgRNA121
CTAGCATCTCGCAAGGTAGCATGGAGGAAA
>MED12_HsgRNA122
CTAGCATCTCGCAAGGTAGCATGGAGGAAA
>MED12_HsgRNA123
GAAGCATGGGATGAACCGGTCCGATGGCTC
>MED12_HsgRNA124
TCCACCAAACAGAAGATCTCGCCCTGGGAT
>MED12_HsgRNA125
TGTTCAAACCAGCCCCAAGAGAGTGGTGC
>MED12_HsgRNA126
TGTTCAAACCAGCCCCAAGAGAGTGGTGC
>MED12_HsgRNA127
ATGACCAACACCAGGTCACGGCTCAGGTGT
>MED12_HsgRNA128
ATGACCAACACCAGGTCACGGCTCAGGTGT
>MED12_HsgRNA129
CAAACCAAGGCACTAGGACAGCACAGGAGG
>MED12_HsgRNA130
CAAACCAAGGCACTAGGACAGCACAGGAGG
>MED12_HsgRNA131
TGACCCAGAGCACAAGGAGGCTGAAGGCAG

>MED12_HsgRNA132
TGACCCAGAGCACAAGGAGGCTGAAGGCAG
>MED12_HsgRNA133
GTAGCCAGCGAGTCATGAAAAGATAGGTCA
>MED12_HsgRNA134
GTAGCCAGCGAGTCATGAAAAGATAGGTCA
>MED12_HsgRNA135
GCAGCCATGAGTGCAACCAGCGGTTGGTTCG
>MED12_HsgRNA136
GCAGCCATGAGTGCAACCAGCGGTTGGTTCG
>MED12_HsgRNA137
TAGGCCACACCTGAGCCGTGACCTGGTGT
>MED12_HsgRNA138
TAGGCCACACCTGAGCCGTGACCTGGTGT
>MED12_HsgRNA139
TTCTCCCCTACTATGCCCTGTGAGGGGAAG
>MED12_HsgRNA140
TGGGCCCCGCTAGTACCTACCTGTAGGATA
>MED12_HsgRNA141
TGGGCCCCGCTAGTACCTACCTGTAGGATA
>MED12_HsgRNA142
AATGCCCTTATGCACGTCTGTGTGGGGCAC
>MED12_HsgRNA143
AATGCCCTTATGCACGTCTGTGTGGGGCAC
>MED12_HsgRNA144
TGCTCCTCTCCTCGAGCCACTCGCCGGTCC
>MED12_HsgRNA145
ACTCCCTCTTGGAGAACATCGCCAAGGCCA
>MED12_HsgRNA146
ACTCCCTCTTGGAGAACATCGCCAAGGCCA
>MED12_HsgRNA147
CACACCTGAGCCGTGACCTGGTGTGGTCA
>MED12_HsgRNA148
CACACCTGAGCCGTGACCTGGTGTGGTCA
>MED12_HsgRNA149
TCCTCCTGCAGTTTCTGGATACACAGGCTC
>MED12_HsgRNA150
TCCTCCTGCAGTTTCTGGATACACAGGCTC
>MED12_HsgRNA151
GGAGCCTGTGTATCCAGAACTGCAGGAGG
>MED12_HsgRNA152
GGAGCCTGTGTATCCAGAACTGCAGGAGG
>MED12_HsgRNA153
GACTCCTTACCTCCCTCTACAGCCAGGTGC

>MED12_HsgRNA154
CTTGCCTTTGGAGCCCCTGGTCCCCGGCCT
>MED12_HsgRNA155
GAGTCGAGGGTGTGCTGCTAGTTGGGGGCT
>MED12_HsgRNA156
CTGCCGATGACCCAGAGCACAAGGAGGCTG
>MED12_HsgRNA157
CTGCCGATGACCCAGAGCACAAGGAGGCTG
>MED12_HsgRNA158
GATGCGGCAGGTAAGCCGGGCCCCCTGGCTC
>MED12_HsgRNA159
TGAGCGTGCTCATCAATGGGACATTGGCTG
>MED12_HsgRNA160
TGGTCGTGTCTTCACAGTACTCTGGGGAAT
>MED12_HsgRNA161
TGGTCGTGTCTTCACAGTACTCTGGGGAAT
>MED12_HsgRNA162
TCTTCTCAAACACTCAAGCACCCAGGTCA
>MED12_HsgRNA163
GCTTCTCAAATCCTCGGATCTGGTGGGCAG
>MED12_HsgRNA164
GCAGCTCACACCTTCACCTACACGGGGCTA
>MED12_HsgRNA165
TGGCCTCAGCTGTATCCTACAGGTAGGTAC
>MED12_HsgRNA166
TGGCCTCAGCTGTATCCTACAGGTAGGTAC
>MED12_HsgRNA167
GCAGCTCCAAGGAAGACTGGCGCATGGTCC
>MED12_HsgRNA168
GCAGCTCCAAGGAAGACTGGCGCATGGTCC
>MED12_HsgRNA169
GCTCCTCCTGGAGATCATCATCAGCGGCAC
>MED12_HsgRNA170
GCTCCTCCTGGAGATCATCATCAGCGGCAC
>MED12_HsgRNA171
TACTCTTACCTGAAACATGAACATGGCCA
>MED12_HsgRNA172
TACTCTTACCTGAAACATGAACATGGCCA
>MED12_HsgRNA173
CCCTCTGGCATGGGCAGGTTGGACGGGGCA
>MED12_HsgRNA174
CCCTCTGGCATGGGCAGGTTGGACGGGGCA
>MED12_HsgRNA175
GTGGCTGGTCGTAAAGAACCCCAAGGGTCC

>MED12_HsgRNA176
TTCGCTGGTCTTTCGATAAAATGCCAGGAAG
>MED12_HsgRNA177
TTCGCTGGTCTTTCGATAAAATGCCAGGAAG
>MED12_HsgRNA178
CTGGCTGTCTCCACAGAGATGTTGCGGCCA
>MED12_HsgRNA179
CCGCCTGTCTCTTCTCCAGGAGCTTGGCTA
>MED12_HsgRNA180
CCGCCTGTCTCTTCTCCAGGAGCTTGGCTA
>MED12_HsgRNA181
CAGGCTGTGTGGCGTCGTGAAGCATGGGAT
>MED12_HsgRNA182
CTGACTGTTGGAAAACCTCGATTGTGGCCT
>MED12_HsgRNA183
CTGACTGTTGGAAAACCTCGATTGTGGCCT
>MED12_HsgRNA184
TATACTTGCACTCTCATCTCCCGAGGGGAC
>MED12_HsgRNA185
TATACTTGCACTCTCATCTCCCGAGGGGAC
>MED12_HsgRNA186
CGTACTTGGCATAGACATCCAGACTGGCTG
>MED12_HsgRNA187
CGTACTTGGCATAGACATCCAGACTGGCTG
>MED12_HsgRNA188
CGTTCTTTGCGTGAAGAGGAACCCAGGTGC
>MED12_HsgRNA189
CGTTCTTTGCGTGAAGAGGAACCCAGGTGC
>MED12_HsgRNA190
TCATGAAAAGATAGGTCACTGACCTGGAGG
>MED12_HsgRNA191
TCATGAAAAGATAGGTCACTGACCTGGAGG
>MED12_HsgRNA192
TGAAGAACACCATCTACTGCAACGTGGAGC
>MED12_HsgRNA193
TGAAGAACACCATCTACTGCAACGTGGAGC
>MED12_HsgRNA194
AGAAGAACTTCCAGAGGAGGAGGGAGGAGG
>MED12_HsgRNA195
GCAGGAAGCCCCAAGTGAACCAGAAGGATA
>MED12_HsgRNA196
AGATGAGAAGGGTTCATCGCCTCTGGCTC
>MED12_HsgRNA197
GCAGGAGGAGCGGATTCTACTGTAGGCTT

>MED12_HsgRNA198
GCAGGAGGAGCGGATTCCCTACTGTAGGCTT
>MED12_HsgRNA199
GAAGGAGGATGCGGCAGGTAAGCCGGGCCC
>MED12_HsgRNA200
GAAGGAGGATGCGGCAGGTAAGCCGGGCCC
>MED12_HsgRNA201
AGTCGAGGGTGTGCTGCTAGTTGGGGGCTG
>MED12_HsgRNA202
AGTCGAGGGTGTGCTGCTAGTTGGGGGCTG
>MED12_HsgRNA203
GCTTGATCATGAGCTGCAGCTCCAAGGAAG
>MED12_HsgRNA204
GCTTGATCATGAGCTGCAGCTCCAAGGAAG
>MED12_HsgRNA205
TGATGATGATCTCCAGGAGGAGCATGGCCC
>MED12_HsgRNA206
TGATGATGATCTCCAGGAGGAGCATGGCCC
>MED12_HsgRNA207
AGGCGATGGAACCCTTCTCATCTGCGGCTT
>MED12_HsgRNA208
AGGCGATGGAACCCTTCTCATCTGCGGCTT
>MED12_HsgRNA209
TTTGGATTGGGACCTAGCAAGGATGGGCAT
>MED12_HsgRNA210
TTTGGATTGGGACCTAGCAAGGATGGGCAT
>MED12_HsgRNA211
AGGAGCAAACACTGCCGAGCGATGAGGATG
>MED12_HsgRNA212
AGGAGCAAACACTGCCGAGCGATGAGGATG
>MED12_HsgRNA213
TATTGCAAGTCACTGAGTGCAGAATGGCTA
>MED12_HsgRNA214
TATTGCAAGTCACTGAGTGCAGAATGGCTA
>MED12_HsgRNA215
CGGGGCAATAGGCAAGTGGTCAAGTGGTGA
>MED12_HsgRNA216
CGGGGCAATAGGCAAGTGGTCAAGTGGTGA
>MED12_HsgRNA217
TTAAGCAATTCATCCTCTCCAGGGCGGATC
>MED12_HsgRNA218
TTAAGCAATTCATCCTCTCCAGGGCGGATC
>MED12_HsgRNA219
GAAGGCACTGTTACCCTCTGGCATGGGCAG

>MED12_HsgRNA220
GAAGGCACTGTTACCCTCTGGCATGGGCAG
>MED12_HsgRNA221
TCATGCAGCCATGAGTGCAACCAGCGGTTG
>MED12_HsgRNA222
TCATGCAGCCATGAGTGCAACCAGCGGTTG
>MED12_HsgRNA223
TGCCGCAGGACAGCCACGATGCACAGGCAC
>MED12_HsgRNA224
TGCCGCAGGACAGCCACGATGCACAGGCAC
>MED12_HsgRNA225
TTCTGCATTGGTAAGCGCACAGGACGGTAT
>MED12_HsgRNA226
TTCTGCATTGGTAAGCGCACAGGACGGTAT
>MED12_HsgRNA227
CAATGCCCTTATGCACGTCTGTGTGGGGCA
>MED12_HsgRNA228
CAATGCCCTTATGCACGTCTGTGTGGGGCA
>MED12_HsgRNA229
TGCAGCGCAGCACCCAGCAGACCACGGAGT
>MED12_HsgRNA230
TAGAGCGCTCTGGTGTATGGCTGGTGGCCC
>MED12_HsgRNA231
TAGAGCGCTCTGGTGTATGGCTGGTGGCCC
>MED12_HsgRNA232
AGCTGCGGTGTCTTGAAAAGGTGAAGGAGG
>MED12_HsgRNA233
AGCTGCGGTGTCTTGAAAAGGTGAAGGAGG
>MED12_HsgRNA234
ACCAGCGGTTGGTCGTA CTGTTGGGGTGG
>MED12_HsgRNA235
GACTGCTCACACCATCCAGCTGCAGGGCCA
>MED12_HsgRNA236
ATGAGCTGCAGCTCCAAGGAAGACTGGCGC
>MED12_HsgRNA237
ATGAGCTGCAGCTCCAAGGAAGACTGGCGC
>MED12_HsgRNA238
GGCTGCTGGGGAAGAATTGGAGAAGGGTCA
>MED12_HsgRNA239
GGCTGCTGGGGAAGAATTGGAGAAGGGTCA
>MED12_HsgRNA240
CGTGGCTGGTCGTAAAGAACCCCAAGGGTC
>MED12_HsgRNA241
CGTGGCTGGTCGTAAAGAACCCCAAGGGTC

>MED12_HsgRNA242
CTGTGCTGTCCTAGTGCCTTGGTTTGGCAC
>MED12_HsgRNA243
CCTTGCTTCTTCATGCAGGCTGTGTGGCGT
>MED12_HsgRNA244
CCTTGCTTCTTCATGCAGGCTGTGTGGCGT
>MED12_HsgRNA245
ATGCGCTTTATGCGCTGCCGCTGGGGGTTT
>MED12_HsgRNA246
GGGAGGAAGGTGAAACTGACCTGTTGGCAG
>MED12_HsgRNA247
GGGAGGAAGGTGAAACTGACCTGTTGGCAG
>MED12_HsgRNA248
TGAAGGAGGATGCGGCAGGTAAGCCGGGCC
>MED12_HsgRNA249
TGAAGGAGGATGCGGCAGGTAAGCCGGGCC
>MED12_HsgRNA250
CGGGGAGGCGCTCACCTCTGTCTTGGTAG
>MED12_HsgRNA251
GTTAGGAGTTACTCACCCATGAAAGGGTCA
>MED12_HsgRNA252
GTTAGGAGTTACTCACCCATGAAAGGGTCA
>MED12_HsgRNA253
GGCAGGATCATCAAAGGGAGAGGGAGGCCG
>MED12_HsgRNA254
TCCAGGCACTACTCACATTGTTAGGGTCT
>MED12_HsgRNA255
ATGAGGCAGGCATGATAGTGCCGCAGGACA
>MED12_HsgRNA256
ATGAGGCAGGCATGATAGTGCCGCAGGACA
>MED12_HsgRNA257
CATGGGCAGGTTGGACGGGGCAATAGGCAA
>MED12_HsgRNA258
CATGGGCAGGTTGGACGGGGCAATAGGCAA
>MED12_HsgRNA259
CGCCGGCTTGCCTACTTCTGTACACGGAGA
>MED12_HsgRNA260
CGCCGGCTTGCCTACTTCTGTACACGGAGA
>MED12_HsgRNA261
TTCTGGGAGGCAGCCAGCAGGTGGCGGTCTG
>MED12_HsgRNA262
GTGTGGGCCTCTATCACAGAACTTGGACC
>MED12_HsgRNA263
TTTGGGTCCTGAGGGTAAACATCGGGAGG

>MED12_HsgRNA264
CTGAGGTGGGCAGTTTAGCAATGAGGGGGG
>MED12_HsgRNA265
ACCTGGTGTGGTCATAATGTGAAAGGTGC
>MED12_HsgRNA266
ACCTGGTGTGGTCATAATGTGAAAGGTGC
>MED12_HsgRNA267
ATGCGGTTCTGGGAGGCAGCCAGCAGGTGG
>MED12_HsgRNA268
ATGCGGTTCTGGGAGGCAGCCAGCAGGTGG
>MED12_HsgRNA269
TTCAGTAAGAAGGAAGAGGTGTTTGGGTAC
>MED12_HsgRNA270
AGTGGTAGGGGTCCGTACTCAGCATGGGAG
>MED12_HsgRNA271
AGTGGTAGGGGTCCGTACTCAGCATGGGAG
>MED12_HsgRNA272
AGATGTCATCACGTGTGAGCCACAGGGCTC
>MED12_HsgRNA273
AGATGTCATCACGTGTGAGCCACAGGGCTC
>MED12_HsgRNA274
CCCCGTCCAACCTGCCCATGCCAGAGGGTA
>MED12_HsgRNA275
CCCCGTCCAACCTGCCCATGCCAGAGGGTA
>MED12_HsgRNA276
TCTGGTCCTGGTTGAGGATGAGGCAGGCAT
>MED12_HsgRNA277
TGTAGTGAACAGGACTCTGAGCCAGGGGCC
>MED12_HsgRNA278
TGTAGTGAACAGGACTCTGAGCCAGGGGCC
>MED12_HsgRNA279
CTGAGTGAAGGCACTGTTACCCCTCTGGCAT
>MED12_HsgRNA280
CTGAGTGAAGGCACTGTTACCCCTCTGGCAT
>MED12_HsgRNA281
ATGGGTGGCGTACTGCACGTGTCGTGGCTG
>MED12_HsgRNA282
ATGGGTGGCGTACTGCACGTGTCGTGGCTG
>MED12_HsgRNA283
TGAGGTGGGCAGTTTAGCAATGAGGGGGGC
>MED12_HsgRNA284
TGAGGTGGGCAGTTTAGCAATGAGGGGGGC
>MED12_HsgRNA285
CTCCGTGTACAGAAGTAGGCAAGCCGGCGG

>MED12_HsgRNA286
CTCCGTGTACAGAAGTAGGCAAGCCGGCGG
>MED12_HsgRNA287
GCCTGTGTATCCAGAACTGCAGGAGGACA
>MED12_HsgRNA288
GCCTGTGTATCCAGAACTGCAGGAGGACA
>MED12_HsgRNA289
TGCGGTGTCTTGAAAAGGTGAAGGAGGATG
>MED12_HsgRNA290
TGCGGTGTCTTGAAAAGGTGAAGGAGGATG
>MED12_HsgRNA291
ATTTGTTCTTTAAATGGCTACAGGAGGTGT
>MED12_HsgRNA292
ATTTGTTCTTTAAATGGCTACAGGAGGTGT
>MED12_HsgRNA293
ACTTGTGTGGCCCTGGCAGGTGGGGGGCA
>MED12_HsgRNA294
TTGCTAAACTGCCACCTCAGTCCAGGGAC
>MED12_HsgRNA295
TTGCTAAACTGCCACCTCAGTCCAGGGAC
>MED12_HsgRNA296
CCTTTAACACATGTCCCTGGACTGAGGTGG
>MED12_HsgRNA297
CCTTTAACACATGTCCCTGGACTGAGGTGG
>MED12_HsgRNA298
AGTTTAAGCAATTCATCCTCTCCAGGGCGG
>MED12_HsgRNA299
AGTTTAAGCAATTCATCCTCTCCAGGGCGG
>MED12_HsgRNA300
CGTGTACAGAAGTAGGCAAGCCGGCGGGAC
>MED12_HsgRNA301
CGTGTACAGAAGTAGGCAAGCCGGCGGGAC
>MED12_HsgRNA302
AGGATACAGCTGAGGCCAAAAACCAGGGGC
>MED12_HsgRNA303
CTACTAGCCTGTGCCTGTGCATCGTGGCTG
>MED12_HsgRNA304
CTACTAGCCTGTGCCTGTGCATCGTGGCTG
>MED12_HsgRNA305
GTGGTAGGGGTCCGTACTCAGCATGGGAGC
>MED12_HsgRNA306
GTGGTAGGGGTCCGTACTCAGCATGGGAGC
>MED12_HsgRNA307
CTGCTAGTTGGGGGCTGAGGAGCAGGGGTG

>MED12_HsgRNA308
CCTCTATCACAGAACTTGGACCAGTGGACC
>MED12_HsgRNA309
CCTCTATCACAGAACTTGGACCAGTGGACC
>MED12_HsgRNA310
GTGCTATGGTGGTAGCCAAGCTCCTGGAGA
>MED12_HsgRNA311
GTGCTATGGTGGTAGCCAAGCTCCTGGAGA
>MED12_HsgRNA312
TAGTTCACCAGCATTAAAGGAGTGAAGGGAT
>MED12_HsgRNA313
TAGTTCACCAGCATTAAAGGAGTGAAGGGAT
>MED12_HsgRNA314
CAAGTCACTGAGTGCAGAATGGCTAGGAGT
>MED12_HsgRNA315
CAAGTCACTGAGTGCAGAATGGCTAGGAGT
>MED12_HsgRNA316
AGAATCAGAAGCCGCAGATGAGAAGGGTTC
>MED12_HsgRNA317
AGAATCAGAAGCCGCAGATGAGAAGGGTTC
>MED12_HsgRNA318
GCTGTCAGCTGCAAGCGTTCTGGTCGGCAT
>MED12_HsgRNA319
GCTGTCAGCTGCAAGCGTTCTGGTCGGCAT
>MED12_HsgRNA320
TGGGTCATCGGCAGGATCATCAAAGGGAGA
>MED12_HsgRNA321
GGGCTCCAAAGGCAAGGTCCCCTCGGGAGA
>MED12_HsgRNA322
GGGCTCCAAAGGCAAGGTCCCCTCGGGAGA
>MED12_HsgRNA323
CCCGTCCAACCTGCCCATGCCAGAGGGTAA
>MED12_HsgRNA324
CCCGTCCAACCTGCCCATGCCAGAGGGTAA
>MED12_HsgRNA325
TGCTCCAGAACCGCATCGTGGATGGAGC
>MED12_HsgRNA326
TGCTCCAGAACCGCATCGTGGATGGAGC
>MED12_HsgRNA327
GCCTTCCCCAGACAAGCCTACAGTAGGAAT
>MED12_HsgRNA328
ACCCTCTGGCATGGGCAGGTTGGACGGGGC
>MED12_HsgRNA329
ACCCTCTGGCATGGGCAGGTTGGACGGGGC

>MED12_HsgRNA330
TTGTTCTGTCATCTTGCAGCGTTGTGGAGA
>MED12_HsgRNA331
TTGTTCTGTCATCTTGCAGCGTTGTGGAGA
>MED12_HsgRNA332
TCCTTCTTACTGAAAATGGGGACCTGGATG
>MED12_HsgRNA333
GTCTTGAAAAGGTGAAGGAGGATGCGGCAG
>MED12_HsgRNA334
GTCTTGAAAAGGTGAAGGAGGATGCGGCAG
>MED12_HsgRNA335
GTAGTGAACAGGACTCTGAGCCAGGGGCC
>MED12_HsgRNA336
GTAGTGAACAGGACTCTGAGCCAGGGGCC
>MED12_HsgRNA337
GGATTGAGCTGCGGTGTCTTGAAAAGGTGA
>MED12_HsgRNA338
AGGCTGAGCTGCTTCTCAAATCCTCGGATC
>MED12_HsgRNA339
AGGCTGAGCTGCTTCTCAAATCCTCGGATC
>MED12_HsgRNA340
TGGCTGCCTCCCAGAACCGCATCGTGGATG
>MED12_HsgRNA341
TGGCTGCCTCCCAGAACCGCATCGTGGATG
>MED12_HsgRNA342
TTGCTGCTCTACCACACACACCTGAGGCC
>MED12_HsgRNA343
CTGATGCTGAGTGAATATTCCATGAGGTCC
>MED12_HsgRNA344
CTGATGCTGAGTGAATATTCCATGAGGTCC
>MED12_HsgRNA345
AAGGTGCTGGGAATAGTACCTGGGGGATG
>MED12_HsgRNA346
AAGGTGCTGGGAATAGTACCTGGGGGATG
>MED12_HsgRNA347
CCATTGGACGGTACTTCATACTTTGGAAG
>MED12_HsgRNA348
CCTCTGGCATGGGCAGGTTGGACGGGGCAA
>MED12_HsgRNA349
CCTCTGGCATGGGCAGGTTGGACGGGGCAA
>MED12_HsgRNA350
TTTTTGGCCTCAGCTGTATCCTACAGGTAG
>MED12_HsgRNA351
TTTTTGGCCTCAGCTGTATCCTACAGGTAG

>MED12_HsgRNA352
 AAAATGGGAGCACTGGGAGCAGAAAGGGAG
 >MED12_HsgRNA353
 AAAATGGGAGCACTGGGAGCAGAAAGGGAG
 >MED12_HsgRNA354
 GTTCTGGTCGGCATCGTGCTATGGTGGTAG
 >MED12_HsgRNA355
 GTTCTGGTCGGCATCGTGCTATGGTGGTAG
 >MED12_HsgRNA356
 TGCCTGTGCATCGTGGCTGTCCGCGGCAC
 >MED12_HsgRNA357
 TGCCTGTGCATCGTGGCTGTCCGCGGCAC
 >MED12_HsgRNA358
 CCCTTTAGCAGAGTCAGGGCATGTTGGGAC
 >MED12_HsgRNA359
 CACATTATGACCAACACCAGGTCACGGCTC
 >MED12_HsgRNA360
 CACATTATGACCAACACCAGGTCACGGCTC
 >MED12_HsgRNA361
 ACCTTTCACATTATGACCAACACCAGGTCA
 >MED12_HsgRNA362
 ACCTTTCACATTATGACCAACACCAGGTCA
 >MED12_HsgRNA363
 AGCGTTCTGGTCGGCATCGTGCTATGGTGG
 >MED12_HsgRNA364
 AGCGTTCTGGTCGGCATCGTGCTATGGTGG
 >MED12_HsgRNA365
 ATACTTGCACCTCATCTCCCGAGGGGACC
 >MED12_HsgRNA366
 ATACTTGCACCTCATCTCCCGAGGGGACC
 >MED12_HsgRNA367
 CCCTTTGTAACCGAATCTTTGGATTGGGAC
 >MED12_HsgRNA368
 CCCTTTGTAACCGAATCTTTGGATTGGGAC
 >MED12_HsgRNA369
 ACTTTTGTTGCCATCCTCATCGCTCGGCAG
 >MED12_HsgRNA370
 ACTTTTGTTGCCATCCTCATCGCTCGGCAG

(6) S_6^+ : 38 high on-target activity sgRNAs targeting TADA2B

>TADA2B_HsgRNA1
 CGTGACAGACCACACCTGTCCCAGCGGAGG
 >TADA2B_HsgRNA2
 CATTACGTGAGCATGTACATCCACGGGAAC

>TADA2B_HsgRNA3
CTGGAGATCCAGCCGCTTTCTGTGAGGAAA
>TADA2B_HsgRNA4
GCTCAGCCACAGAGATGTCCAGCGGGGCA
>TADA2B_HsgRNA5
CGGAAGCTGAAAGAGAGACAGCGGCGGAAG
>TADA2B_HsgRNA6
GGGGAGTCCGGGAAGCACCAACGTGGGCAG
>TADA2B_HsgRNA7
TAATAGTCTTCACAGTCACGTAGCGGGCTG
>TADA2B_HsgRNA8
TGCTCAGCCACAGAGATGTCCAGCGGGGC
>TADA2B_HsgRNA9
CTTGCATGACATGAACTGGTACAGCGCCT
>TADA2B_HsgRNA10
CGGGCCAAGATCCGAGAAGTGCAGCGGTAC
>TADA2B_HsgRNA11
CGCGCCACGTGGACATGTACGTGCGGAAG
>TADA2B_HsgRNA12
GCTTCCGCACGTACATGTCCACGTGGGCGC
>TADA2B_HsgRNA13
AGTACTGCGTGTACTGCCTGGCCGAGGTGA
>TADA2B_HsgRNA14
GCTGCTGGACGCCATCGAGCAGTTCGGCTT
>TADA2B_HsgRNA15
GGCGCTTCACGCTCTGGGGCCCGAGGCCG
>TADA2B_HsgRNA16
AGCGGAAGCGCAGCGGGCTCACCTCGGCCA
>TADA2B_HsgRNA17
CTGGGACAGGTGTGGTCTGTACGCGGTTG
>TADA2B_HsgRNA18
CAGAGAGCCCGCTGATGAGCGTCTCGGCAT
>TADA2B_HsgRNA19
AAGCGCAGCGGGCTCACCTCGGCCAGGCAG
>TADA2B_HsgRNA20
TCGAGCAGTTCGGCTTCGGAAACTGGGTGA
>TADA2B_HsgRNA21
CGCTGCAGTTCTCGGATCTTGGCCCGGAGC
>TADA2B_HsgRNA22
CTCAGCCACAGAGATGTCCAGCGGGGGCAG
>TADA2B_HsgRNA23
GGTAGCGGCGGTGGTGGCCGATCTCGGCGC
>TADA2B_HsgRNA24
CACGGCTACCAGCTGGTGGACGGCGGGCGC

>TADA2B_HsgRNA25
 GTGCGGAAGCTGAAAGAGAGACAGCGGCGG
 >TADA2B_HsgRNA26
 CGGGGCAGCGGGGTGGTGTAGGCTGGGTGA
 >TADA2B_HsgRNA27
 CTCTGTGGCTGAGCAGCAGCAGCTGGGCTA
 >TADA2B_HsgRNA28
 CACGTAATGCTCCATCACCTCTTGGGGAGT
 >TADA2B_HsgRNA29
 GCATTACGTGAGCATGTACATCCACGGGAA
 >TADA2B_HsgRNA30
 AGTTTCCGAAGCCGAAGTCTCGATGGCGT
 >TADA2B_HsgRNA31
 AGCTTCCGCACGTACATGTCCACGTGGGCG
 >TADA2B_HsgRNA32
 GCACTCGGTGCAGCGGAAGCGCAGCGGGCT
 >TADA2B_HsgRNA33
 TTGGTGCTTCCCGACTCCCCAAGAGGTGA
 >TADA2B_HsgRNA34
 AGGCTGGCACCAGATTGTAGTCACGGGCGA
 >TADA2B_HsgRNA35
 AGCATGTACATCCACGGGAACCTGGGGAAG
 >TADA2B_HsgRNA36
 TCGATGTCCTGGCACTCGGTGCAGCGGAAG
 >TADA2B_HsgRNA37
 AGTCTTACAGTCACGTAGCGGGCTGGACT
 >TADA2B_HsgRNA38
 GCCCTTTGTCATCGTAGGAAGATATGGCTG

(7) S_7^+ : 22 high on-target activity sgRNAs targeting TADA1

>TADA1_HsgRNA1
 AGACAACAGCTGAAACAGCCTCCTCGGTGA
 >TADA1_HsgRNA2
 TGACAACGCGTGAGAATGGCCAGGAGGAAA
 >TADA1_HsgRNA3
 CAAGAAGAACTTAAGCGAGGCCCTGGGGGA
 >TADA1_HsgRNA4
 CCAAAAATCTGACAACGCGTGAGAATGGCCA
 >TADA1_HsgRNA5
 AGATACTGGGCTAACCTAAAGCTGTGGTTC
 >TADA1_HsgRNA6
 TCTTACTGTTTCACGTTGTCCCCAGGGCC
 >TADA1_HsgRNA7
 AAGAAGAACTTAAGCGAGGCCCTGGGGGAC

>TADA1_HsgRNA8
 GTTAAGAGCATAGACAGTATGTGTAGGGAT
 >TADA1_HsgRNA9
 TTTTCAGCTGTTGTCTATGCTGTGGAGGTTG
 >TADA1_HsgRNA10
 AATGATAGTACTGCTTATGAGCATGGGCT
 >TADA1_HsgRNA11
 GGTTC AAGCAGAAGATCAGCAAAGAGGAGT
 >TADA1_HsgRNA12
 CTTACTGTTTCACGTTGTCCCCAGGGCCT
 >TADA1_HsgRNA13
 AGAAGA ACTTAAGCGAGGCCCTGGGGGACA
 >TADA1_HsgRNA14
 CCAAGAAGAACTTAAGCGAGGCCCTGGGGG
 >TADA1_HsgRNA15
 CCTCGAGTGGGAAGCATCATTGTGTGGGAA
 >TADA1_HsgRNA16
 TAGGGATGACTTCCCTGTGCACCTGGGATT
 >TADA1_HsgRNA17
 AGGCGCCAAGAAGAACTTAAGCGAGGCC
 >TADA1_HsgRNA18
 CAATGGCGACCTTTGTGAGCGAGCTGGAGG
 >TADA1_HsgRNA19
 ATGATAGTACTGCTTATGAGCATGGGCTG
 >TADA1_HsgRNA20
 AGCATGGGCTGGACAATGTCACCGAGGAGG
 >TADA1_HsgRNA21
 CTGTTTCAGCTGTTGTCTATGCTGTGGAGG
 >TADA1_HsgRNA22
 TCCATTCTCACAATGATTTCCCTCCTGGCCA

(8) S_8^+ : 13 high on-target activity sgRNAs targeting HPRT1

>HPRT1_HsgRNA1
 TTATAGCCCCCTTGAGCACACAGAGGGCT
 >HPRT1_HsgRNA2
 TTGTAGCCCTCTGTGTGCTCAAGGGGGGCT
 >HPRT1_HsgRNA3
 GCCGAGCTGCTCACCACGACGCCAGGGCTG
 >HPRT1_HsgRNA4
 AATCATTATGCTGAGGATTTGGAAAGGGTG
 >HPRT1_HsgRNA5
 TGGTCAGGCAGTATAATCCAAAGATGGTCA
 >HPRT1_HsgRNA6
 TTAAGTAGAATGACCAGTCAACAGGGGACA

>HPRT1_HsgRNA7
 TTTGGAAAGGGTGTATTATTCTCATGGACT
 >HPRT1_HsgRNA8
 TGGCGACCCGCAGCCCTGGCGTCGTGGTGA
 >HPRT1_HsgRNA9
 TATAGCCCCCTTGAGCACACAGAGGGCTA
 >HPRT1_HsgRNA10
 TGTAGCCCTCTGTGTGCTCAAGGGGGGCTA
 >HPRT1_HsgRNA11
 GGCAGTATAATCCAAAGATGGTCAAGGTCG
 >HPRT1_HsgRNA12
 CTCCGTTATGGCGACCCGCAGCCCTGGCGT
 >HPRT1_HsgRNA13
 TTGCTCGAGATGTGATGAAGGAGATGGGAG

(9) S_9^+ : 31 high on-target activity sgRNAs targeting CUL3

>CUL3_HsgRNA1
 TCAAAAAGCATGTCTTGGTGCTGGTGGGATG
 >CUL3_HsgRNA2
 AAACAAGGTGAATCCGACCCAGAGAGGAAA
 >CUL3_HsgRNA3
 GCACAAGTAACTGGCTCTAATACACGGAAG
 >CUL3_HsgRNA4
 GGCCAATATCCTGTCTGTGAGCACCCGGACT
 >CUL3_HsgRNA5
 TCAAACACAACGATGGATGAATTCAGGCAA
 >CUL3_HsgRNA6
 TCTTACAGTCCGGGTGCTCACGACAGGATA
 >CUL3_HsgRNA7
 GTTTACCACAGGCGAGGGACTGTAGGGCTC
 >CUL3_HsgRNA8
 GATAAGCTGAAAAAGGGAGTCAAAGGGGTA
 >CUL3_HsgRNA9
 CTAAATAACTTGTACATGCAACCAAGGTCT
 >CUL3_HsgRNA10
 GAACCAATTGTAAAGGTGGTTGAAAGGGAA
 >CUL3_HsgRNA11
 GAAACAGGAAGATGGATCTGAAGTTGGTGT
 >CUL3_HsgRNA12
 ACGCCGAGGAGAGACTCACCCGAAAGGCC
 >CUL3_HsgRNA13
 AGGGCTCTAACAAGCTCTCTTTCAGGGATA
 >CUL3_HsgRNA14
 TTTACTTACCTGGATATAGTCAACAGGATT

>CUL3_HsgRNA15
 TGCAC TTTGGTGTGGCTGACTGAGTGGGCC
 >CUL3_HsgRNA16
 ATATGAGCATCTCAAACACAACGATGGATG
 >CUL3_HsgRNA17
 TGATGCACTGCCTTGACAAATCAACGGAAG
 >CUL3_HsgRNA18
 TAGAGCCCTACAGTCCCTCGCCTGTGGTAA
 >CUL3_HsgRNA19
 GTCCGGGTGCTCACGACAGGATATTGGCCC
 >CUL3_HsgRNA20
 TATGGGTGTATTAGGGATCATCTACGGCAA
 >CUL3_HsgRNA21
 TGATTAGAGACATACTAATGTACATGGTAA
 >CUL3_HsgRNA22
 AGCTTATCATCAATAAATAATGAGAGGTAT
 >CUL3_HsgRNA23
 ATAATGAGAGGTATTCAGGAGACCTGGAGT
 >CUL3_HsgRNA24
 GCTGTGTTGGTTTACCACAGGCGAGGGACT
 >CUL3_HsgRNA25
 TTTTTTAGGTA ACTCAGCAGTTGAAGGCGC
 >CUL3_HsgRNA26
 AAGGTTCTACTTAGCCAAACACAGTGGTCG
 >CUL3_HsgRNA27
 TCTCTTGGATATTACAGATGACCATGGATG
 >CUL3_HsgRNA28
 CCTTTTTAACTGGTCCATAAAAATGTGGCAT
 >CUL3_HsgRNA29
 CTGTTTTACATAGGTATCTTTAGGTGGTGT
 >CUL3_HsgRNA30
 TGTTTTTCCTCCACAGACTGAATGTGGATG
 >CUL3_HsgRNA31
 GCACTTTGGTGTGGCTGACTGAGTGGGCCA

(10) S_{10}^+ : 148 high on-target activity sgRNAs targeting NF1

>NF1_HsgRNA1
 TTTTAAAAAACCTACCGTAAACTCGGGTCA
 >NF1_HsgRNA2
 TTTAAAACAGACTTTCTCTCTAAGTGGTTT
 >NF1_HsgRNA3
 ATGCAAAGCCATATGAAATTGTAGTGGACC
 >NF1_HsgRNA4
 TGCAAAATTAAAACGACTCCTGAAGGGTAA

>NF1_HsgRNA5
CACAAACCTGTGGCAGATACACACTGGTCC
>NF1_HsgRNA6
CTTCAAGCCCCTTTCGATTCTAGGTGGTGG
>NF1_HsgRNA7
TTCGAAGTTGAGGGGGGAATTCTGAGGAGG
>NF1_HsgRNA8
GTTAAATAGCATTGGATACAGAGCAGGACT
>NF1_HsgRNA9
GCTCAATATCGCATTACTTAATTTAGGCAG
>NF1_HsgRNA10
AGTAAATCCACTTACCTATAGGAAGGGTCA
>NF1_HsgRNA11
TGGCACACACTTCGAAGTTGAGGGGGGAAT
>NF1_HsgRNA12
AGTCACACATGCCAGAGATTGCTCAGGAAG
>NF1_HsgRNA13
AGTTACAGTTATAGATATAGACTGCGGAGA
>NF1_HsgRNA14
AGGTACATGAAAAAGAAGAATTC AAGGCTT
>NF1_HsgRNA15
ACGGACCAATGTTAAGGATCTGGTGGTCT
>NF1_HsgRNA16
TCCTACTGCACCGATGCTGTTCTGAGGGAA
>NF1_HsgRNA17
ATACACTGGAAAAATGTCTTGCTGGGGTAA
>NF1_HsgRNA18
AGATACTTATAGCTTCTTGCTCTCCAGGTCT
>NF1_HsgRNA19
CTGAACTTCGGAATTCTGCCTCTGGGGTTT
>NF1_HsgRNA20
ACTAAGAAAGTAACAACGTGGAAGAGGTAG
>NF1_HsgRNA21
GGTTAGAACCATCAGAGAGCCTTGAGGAAA
>NF1_HsgRNA22
TGCCAGAGATTGCTCAGGAAGCAATGGAGG
>NF1_HsgRNA23
TCAGAGAGCCTTGAGGAAAACCAGCGGAAC
>NF1_HsgRNA24
TACCAGCACATAGTGAAATGTAGAAGGTGA
>NF1_HsgRNA25
GAGCAGCACTTCAGAAAAGAGTGATGGCAC
>NF1_HsgRNA26
CAAAAGCCAAAATGGAAGATGGCCAGGTAA

>NF1_HsgRNA27
AAAAAGCCACCACCTAGAATCGAAAGGGGC
>NF1_HsgRNA28
TCTGAGGAGGAACTGATGATGGCATGGAAG
>NF1_HsgRNA29
AGAAAAGTAACAACGTGGAAGAGGTAGGGAA
>NF1_HsgRNA30
CCAAAAGTCAGTACTGAGCACAAACAAGGAAT
>NF1_HsgRNA31
GGACAGTCTACGAAAAGCTCTTGCTGGCCA
>NF1_HsgRNA32
TTGCAGTGCCACTCCAGAGGATTCGGATT
>NF1_HsgRNA33
GACCAGTGGACAGAAGCTCAAAGGTAT
>NF1_HsgRNA34
TCAAAGTTTGAGGAATTTATGACTAGGTAA
>NF1_HsgRNA35
CAAGATAAGGAGAATGATTTGTAGTGGCCA
>NF1_HsgRNA36
CCAGATCCCACAGACTGATATGGCTGGTAA
>NF1_HsgRNA37
AGCAATCTCTGGCATGTGTGACTGAGGGAC
>NF1_HsgRNA38
GGATATGAATGATAGACTGGACAATGGCTT
>NF1_HsgRNA39
ACCAATGCTCTCACCTTAAAGTGTGGTTG
>NF1_HsgRNA40
TGATATTAATGACCAGTCCATGTGTGGAAG
>NF1_HsgRNA41
CCACATTAGGCTTAGGTTACCACAAGGATC
>NF1_HsgRNA42
CAAGATTCGGCCAAAAGATGTCCCTGGGAC
>NF1_HsgRNA43
CAGGATTGATAAATCTGAGGAACATGGCAC
>NF1_HsgRNA44
CTCCATTGCTTCCTGAGCAATCTCTGGCAT
>NF1_HsgRNA45
TAGAATTGTTACAGTATATCAATGTGGATT
>NF1_HsgRNA46
CTACCAAGCTGGGACTTCCAAAAGCTGGGAA
>NF1_HsgRNA47
GTGACAATACACAGCATCAATCTTAGGCCA
>NF1_HsgRNA48
CTGCCACATCAAGGGAATTGTTGAAGGACA

>NF1_HsgRNA49
CCTACAGGAATGGATCAACATGACTGGCTT
>NF1_HsgRNA50
CGCACAGGCCGGTGGAAATGGGTCCAGGCCG
>NF1_HsgRNA51
CAGTCATGTTGATCCATTCTGTAGGGAGT
>NF1_HsgRNA52
ACACCCAAAGACAACAAGAGCTCTTGGTTG
>NF1_HsgRNA53
AAAGCCACCACCTAGAATCGAAAGGGGCTT
>NF1_HsgRNA54
TCAACCACCATGGACTGAACAAGTAGGAAA
>NF1_HsgRNA55
TCAACCACGTCTTTGGATATATCTTGGATT
>NF1_HsgRNA56
CAATCCATGGAATTGTGCAGAGTGTGGTGT
>NF1_HsgRNA57
TTTTCTACTTGTTCAGTCCATGGTGGTTG
>NF1_HsgRNA58
TGGCCGCGCACAGGCCGGTGGAAATGGGTCC
>NF1_HsgRNA59
TGAGCGCGTGCCTGGTTTGCAATGGTTA
>NF1_HsgRNA60
GAGTCGGGCTGTGACAGTTCCCAGCGGGTC
>NF1_HsgRNA61
GTGGCTACTAAGAAAGTAACAACGTGGAAG
>NF1_HsgRNA62
CCTGCTCGTCGAAGCGGCTGACCACGGCCT
>NF1_HsgRNA63
TCGCCTCTGCACAAAGCCCTCTTTTGGGTA
>NF1_HsgRNA64
AGTTCTGACAAAAATCCTTCAACAAGGCAC
>NF1_HsgRNA65
TGGTCTGGCCGACAGTTGGATAGGTGGCTG
>NF1_HsgRNA66
TGTCTGTTTCCGCCACCTCTGTGAGGAAG
>NF1_HsgRNA67
CAATCTTAGGCCACCAATCCAATGCGGACT
>NF1_HsgRNA68
CACTCTTCCAAAAATTCTAACGTGAGGTGT
>NF1_HsgRNA69
ATAGCTTCTTGTCTCCAGGTCTGTAGGTTT
>NF1_HsgRNA70
TTATCTTGTGTCCAGAAATAATCCAGGATA

>NF1_HsgRNA71
AACAGAAACTACCTGCTGCCACCTTGGCTT
>NF1_HsgRNA72
TTCAGAACCTTTGGGAGAGGACCATGGCTG
>NF1_HsgRNA73
TAGGGAAGATGAGCTGCCACATCAAGGGAA
>NF1_HsgRNA74
GTAGGACAATCAGATGCTATATCAAGGAAA
>NF1_HsgRNA75
CAATGAGATTAGATGAAACGATGCTGGTCA
>NF1_HsgRNA76
TTGTGAGCTAGCTTGAGAGCATTGTGGAAT
>NF1_HsgRNA77
CACAGAGGTGGCGGAAACAGGACATGGCAA
>NF1_HsgRNA78
CATGGAGTCATGTATTCCAAACAAAGGTGT
>NF1_HsgRNA79
CAGAGATTGCTCAGGAAGCAATGGAGGTAA
>NF1_HsgRNA80
CCTTGCAGCCACCTATCCAACCTGTCGGCCA
>NF1_HsgRNA81
TTAGGCAGTTCTGACCCGAGTTTACGGTAG
>NF1_HsgRNA82
GCGTGCCTGGTTTGCAATGGTTAAGGTGA
>NF1_HsgRNA83
TTTGGCCGAATCTTGGTGTGTTGGGGGATA
>NF1_HsgRNA84
TATGGCTTTAAAGTCAGTAAGACATGGTAT
>NF1_HsgRNA85
GTGAGGAAGCAGATATCCGGTGTGGGGTGG
>NF1_HsgRNA86
GACTGGACAATGGCTTCACACTCCTGGTGC
>NF1_HsgRNA87
CATGGGACATTCGCCTCTTAACAATGGTCT
>NF1_HsgRNA88
TACAGGGCCACTTCTAGTTTGGTCTGGGCT
>NF1_HsgRNA89
AGTCGGGCTGTGACAGTTCCCAGCGGGTCC
>NF1_HsgRNA90
AAAGGGGCTTGAAGTTAATGTCAAAGGTGA
>NF1_HsgRNA91
AGATGGTAGAATACCTGACAGACTGGGTTA
>NF1_HsgRNA92
GATTGGTGGAACTGGTCACAATGATGGGTG

>NF1_HsgRNA93
TCAGGGTTCCACAGAAACATGTACAGGGCC
>NF1_HsgRNA94
GAAAGTAACAACGTGGAAGAGGTAGGGAAG
>NF1_HsgRNA95
GGCAGTACAGCAGAATTAATTACAGGGCTC
>NF1_HsgRNA96
GGCTGTGACAGTCCCAGCGGGTCCGGATA
>NF1_HsgRNA97
ATTGGTGGAAGTGGTCACAATGATGGGTGA
>NF1_HsgRNA98
AATGGTGTGTAACCATGAGAAAGTGGGACT
>NF1_HsgRNA99
CTTGGTGTGTTGGGGGATAGAGTCGGGCTG
>NF1_HsgRNA100
CAGGGTTCCACAGAAACATGTACAGGGCCA
>NF1_HsgRNA101
CCTTGTGTGCTCAGTACTGACTTTGGTAT
>NF1_HsgRNA102
CTTTGTTTGAATACATGACTCCATGGCTG
>NF1_HsgRNA103
AATTTAAAGAAAAACCTACAGACCTGGAGA
>NF1_HsgRNA104
TCTATAACTGTAACCTCCTGGGTCAGGGAGT
>NF1_HsgRNA105
GTGCTACCTATCTACAAAACTCCTGGATC
>NF1_HsgRNA106
ATGTTACCTTAAGATCAACCACCATGGACT
>NF1_HsgRNA107
GTCTTACTAATAGAGACAATAAAGAGGGTG
>NF1_HsgRNA108
CCCTTAGAGCTTCCACACATGGACTGGTCA
>NF1_HsgRNA109
TACGTAGTAATTCTTCATGATCCATGGACA
>NF1_HsgRNA110
ATTGTAGTGGACCTTACCCATACCGGGCCT
>NF1_HsgRNA111
TCTATATCTATAACTGTAACCTCCTGGGTCA
>NF1_HsgRNA112
TGTGTCAATTAGTTGAAGTAATGATGGCAA
>NF1_HsgRNA113
TGCTTCATACGGTGAGACAATGGCAGGATT
>NF1_HsgRNA114
TCTATCATTCATATCCGGACCCGCTGGGAA

>NF1_HsgRNA115
AGACTCCATGCAGACTCTCTTCCGAGGCAA
>NF1_HsgRNA116
GAATTCCGAAGTTCAGCTGCATGCTGGTTT
>NF1_HsgRNA117
CGGGTCCGGATATGAATGATAGACTGGACA
>NF1_HsgRNA118
GAATTCGTTGATCAAACCTCATCTGTGGTAT
>NF1_HsgRNA119
CTCTTCTAAAGCCAAGGTGGCAGCAGGTAG
>NF1_HsgRNA120
CCCATCTATTCAAGCAAAAATATGGGGAAG
>NF1_HsgRNA121
AAGGTGAACTGGTTCTCATCTACTAGGCAG
>NF1_HsgRNA122
TGCATGAAGGTGAGCGGCGTGCCCTGGTTT
>NF1_HsgRNA123
CTGTTGACATCATATTGCTGACAGAGGCAA
>NF1_HsgRNA124
TGGCTGATCGGTTTGAGAGATTGGTGAAC
>NF1_HsgRNA125
AATGTGCAGAAAAGCTATTTGACTTGGTGG
>NF1_HsgRNA126
TTTTTGCATCTTGGCAGGCTACACTGGTAA
>NF1_HsgRNA127
CGATTGCTAGGCCCGGTATGGGTAAGTCC
>NF1_HsgRNA128
ACAATGGCAGGATTGATAAATCTGAGGAAC
>NF1_HsgRNA129
GAAGTGGCCCTGTACATGTTTCTGTGGAAC
>NF1_HsgRNA130
AAGATGGTAGAATACCTGACAGACTGGGTT
>NF1_HsgRNA131
CCAATGTGGTTCCTTGTCTCAGTGGGTAA
>NF1_HsgRNA132
GGCATGTGTGACTGAGGGACCAGTTGGACG
>NF1_HsgRNA133
GAAGTGTGTGCCACTGTTTATAACCAGGTAT
>NF1_HsgRNA134
GGACTTACATTGGTGATGATTCGATGGAGT
>NF1_HsgRNA135
ATCCTTACCAGCCATATCAGTCTGTGGGAT
>NF1_HsgRNA136
TCATTTAGAAAGACTGATTGCCCTAGGACT

>NF1_HsgRNA137
 TGTATTAGCAAACGAGTGTCTCATGGGCAG
 >NF1_HsgRNA138
 TGGATTATTTCTGGACACAAGATAAGGAGA
 >NF1_HsgRNA139
 TGGCTTCACACTCCTGGTGCATGAAGGTGA
 >NF1_HsgRNA140
 TTTGTTTCGCTCTGCTGAAGTTACTTGGACA
 >NF1_HsgRNA141
 CACCTTCTACATTTCACTATGTGCTGGTAA
 >NF1_HsgRNA142
 GCAGTTCTGACCCGAGTTTACGGTAGGTTT
 >NF1_HsgRNA143
 GAAGTTGAGGGGGGAATTCTGAGGAGGAAC
 >NF1_HsgRNA144
 TGGTTTGCAATGGTTAAGGTGAACTGGTTC
 >NF1_HsgRNA145
 GTCATTGCCTTCCGTTCCAGTTACCGGGAC
 >NF1_HsgRNA146
 TCTTTTGGCCGAATCTTGGTGTGTTGGGGG
 >NF1_HsgRNA147
 TGGTTTGTCTACAAATTGAGTATTGGTAT
 >NF1_HsgRNA148
 CTGTTTTAAAGCGATTGCTAGGCCCGGTATGGACGTGTTTCGGCCGGGGCGG

(11) S_{11}^+ : 45 high on-target activity sgRNAs targeting NF2

>NF2_HsgRNA1
 ATGAAAAGATCTACTGCCCTCCTGAGGCTT
 >NF2_HsgRNA2
 AAGCAACAATGGCCAACGAAGCACTGGTGA
 >NF2_HsgRNA3
 AAGCAACCCAAGACGTTACCGTGAGGATC
 >NF2_HsgRNA4
 TAAAAAGGGCACAGAGCTGCTGCTTGGAGT
 >NF2_HsgRNA5
 GACTACGACCCCAAGTGTTCACAAGCGGGGA
 >NF2_HsgRNA6
 AGGTACTGGATCATGATGTTTCAAAGGAAG
 >NF2_HsgRNA7
 CCACAGATTCTCCAGCTATGTATCGGGAAC
 >NF2_HsgRNA8
 GTTCAGCAGATGAAAGCCCAGGCCAGGGAG
 >NF2_HsgRNA9
 TTCTAGCCTTCTCCTCCCTGGCCTGGGCTT

>NF2_HsgRNA10
AAAAATCCCCGCTTGTGAACACTGGGGTCG
>NF2_HsgRNA11
GACGATCCTCACGGTGAACGTCTTGGGTTG
>NF2_HsgRNA12
CGAGATGTTTCGGATTTCATTCCACGGGAA
>NF2_HsgRNA13
TTTGATTGGTGTGCCGACTCTGGGGCTC
>NF2_HsgRNA14
AGGCCACAGCGATTTCGCACGGAGGAGGAGA
>NF2_HsgRNA15
GGCTCACCGGTACGTGGGCTTGGTGGCAA
>NF2_HsgRNA16
CGTTCACCGTGAGGATCGTCACCATGGACG
>NF2_HsgRNA17
GAAACATCTCGTACAGTGACAAGGAGGTAG
>NF2_HsgRNA18
CATTCCACGGGAAGGAGATCTTGGGGGTCA
>NF2_HsgRNA19
AGGACCTGCAGGAAGCACGCGAGGCGGAGC
>NF2_HsgRNA20
ACGCCGAGATGGAGTTCAATTGCGAGGTAA
>NF2_HsgRNA21
TGGCCTGGCTCAAAATGGACAAGAAGGTTG
>NF2_HsgRNA22
AGGAGAAGCGCCTGATGGAGCAGAAGGTGC
>NF2_HsgRNA23
TGACGATCCTCACGGTGAACGTCTTGGGTT
>NF2_HsgRNA24
CTTTGATTGGTGTGCCGACTCTGGGGCT
>NF2_HsgRNA25
AGAAGCCAGGAGCACAGAAGCCTCAGGAGG
>NF2_HsgRNA26
ATCGGAACCATGATCTATTTATGAGGAGA
>NF2_HsgRNA27
AAATGGAATATCTGAAGATAGCTCAGGACC
>NF2_HsgRNA28
GCCAGGAGCACAGAAGCCTCAGGAGGGCAG
>NF2_HsgRNA29
TGAGGGAGGAGGCTGAACGCACGAGGGATG
>NF2_HsgRNA30
TCAGGGTCATAAATGTGAAGCCCCAGGGCA
>NF2_HsgRNA31
TGCAGTACACAATCAAGGACACAGTGGCCT

>NF2_HsgRNA32
 CGGCGTCCATGGTGACGATCCTCACGGTGA
 >NF2_HsgRNA33
 TTCTTACGCCGTCCAGGCCAAGGTAGGCTC
 >NF2_HsgRNA34
 GCTGTCACCAATGAGGTTGAAGCTTGGTAT
 >NF2_HsgRNA35
 TGTATCAGATGACTCCGGAAATGTGGGAGG
 >NF2_HsgRNA36
 TCATTCCACGGGAAGGAGATCTTGGGGGTC
 >NF2_HsgRNA37
 AGAGTCCGGCACACCAAATCAAAGAGGTCC
 >NF2_HsgRNA38
 TTCTTCTTTGAGCCTACCTTGGCCTGGACG
 >NF2_HsgRNA39
 TCTTTGAGCCTACCTTGGCCTGGACGGCGT
 >NF2_HsgRNA40
 GTTTTGCCTCCTCCTCGGTGATCTGGGCCT
 >NF2_HsgRNA41
 TCTTTGGACTGCAGTACACAATCAAGGACA
 >NF2_HsgRNA42
 ATCTTGGGGGTCAGTCTGTTCTCAGGGTCA
 >NF2_HsgRNA43
 GAGATGTTTCGGATTTTCATTCCACGGGAAG
 >NF2_HsgRNA44
 AATTTTATCCTGAGAATGCTGAAGAGGAGC
 >NF2_HsgRNA45
 CAGGTTTCTCGGAGCCCCAGAGTCCGGCAC

(12) S_{12}^+ : 48 high on-target activity sgRNAs targeting CD5

>CD5_HsgRNA1
 CTTACACCAGCTTCTTGTAGACCAGAGGACC
 >CD5_HsgRNA2
 CCACACTGCAGAGACTTACAGATGAGGTTC
 >CD5_HsgRNA3
 AGAGACTTACAGATGAGGTTCCCAGGCCC
 >CD5_HsgRNA4
 GTGGAGATCCAGATGGAAAACAAGTGGAAA
 >CD5_HsgRNA5
 ATCCAGGCCAAGACCCAAACCCAGCGGGCC
 >CD5_HsgRNA6
 CTGTAGTGAGACACAGCTCCCGTTCGGGGC
 >CD5_HsgRNA7
 TTGGATATAGACCACGGAGATCCTTGGCAG

>CD5_HsgRNA8
ACAGATGAGGTTCCCCAGGCCAGGGGCCT
>CD5_HsgRNA9
GCCAATTCGATGGGAGGCCCGAACGGGAG
>CD5_HsgRNA10
TGTTCAATGAAGGGAAAGGACCAAGGGCCA
>CD5_HsgRNA11
AGGCCACCCCTTCCAGACTGTCCGAGGCAG
>CD5_HsgRNA12
CACACACTGCTGCCCCGACCAGGCGGCTC
>CD5_HsgRNA13
CCAGCAGCACCACCAGGAGTACAAGGGTCA
>CD5_HsgRNA14
CACCCAGCGTCCCAGCAGGTATGTGGCAG
>CD5_HsgRNA15
ATTGCAGCTGGTGCCAGGACACGAAGGCCT
>CD5_HsgRNA16
AAAACAGTGTGCAGTTCAGTTGGAGGCTG
>CD5_HsgRNA17
CCTTCCGCTGAGCCTGATCTGCCTAGGTGG
>CD5_HsgRNA18
CCCACCTAGGCAGATCAGGCTCAGCGGAAG
>CD5_HsgRNA19
TCATCCTGACCCTTGTACTCCTGGTGGTGC
>CD5_HsgRNA20
GTGGCGACCTCATCTCCTTCCACACGGTGG
>CD5_HsgRNA21
TCCGCTGAGCCTGATCTGCCTAGGTGGGTG
>CD5_HsgRNA22
GCTGCTGGCTGCCACATACCTGCTGGGAAC
>CD5_HsgRNA23
TCTCCTGGGCACAGAGGAACCCGGGGGAGG
>CD5_HsgRNA24
CACGGAGATCCTTGGCAGAAGACCTGGTTC
>CD5_HsgRNA25
CTCAGATATCCAGGTGATGCTAAGTGGCTC
>CD5_HsgRNA26
GTTTGCACACTGCAGAGGCCTGCTGGGCAT
>CD5_HsgRNA27
TACAGCAGTGCTTCCAGAAAACAACGGCCC
>CD5_HsgRNA28
TCCAGCCCAAGGTTTCAGAGCCGCCTGGTTCG
>CD5_HsgRNA29
AACAGCTGAGATGTGGTGACCCCTTGGCCC

>CD5_HsgRNA30
 TGCTGCTGGCTGCCACATACCTGCTGGGAA
 >CD5_HsgRNA31
 GAAGGGAAAGGACCAAGGGCCAAGGGGTCA
 >CD5_HsgRNA32
 TCCTGGCACCAGCTGCAATCTGGGAGGAGC
 >CD5_HsgRNA33
 CCTAGGCAGATCAGGCTCAGCGGAAGGCAC
 >CD5_HsgRNA34
 AAGTGGCTCCAATTCCAAGTGCAGGGTCA
 >CD5_HsgRNA35
 TGAAGGGAAAGGACCAAGGGCCAAGGGGTCA
 >CD5_HsgRNA36
 CAGCGGGCCTGGCCCCAGGCACTGTGGCAA
 >CD5_HsgRNA37
 GTCAGGGTCAAGTGGAGATCCAGATGGAAA
 >CD5_HsgRNA38
 CTGGGGTCTGTTCAATGAAGGGAAAGGACC
 >CD5_HsgRNA39
 CACAGGTGTGGTGAATTCTACAATGGCAG
 >CD5_HsgRNA40
 TCTTGTAGACCAGAGGACCACACATGGCCA
 >CD5_HsgRNA41
 GCCTGTCTTGGCCTTGTAGAGGATGGTGC
 >CD5_HsgRNA42
 TGCAGTGTGCAAACAGCTGAGATGTGGTGA
 >CD5_HsgRNA43
 CAGATCAGGCTCAGCGGAAGGCACTGGTCT
 >CD5_HsgRNA44
 TGGTCTGCGGGTCTGTTCAATGAAGGGAAA
 >CD5_HsgRNA45
 CAGGTCTTCTGCCAAGGATCTCCGTGGTCT
 >CD5_HsgRNA46
 CCGCTGAGCCTGATCTGCCTAGGTGGGTGA
 >CD5_HsgRNA47
 TATGTGGCAGCCAGCAGCACTTCGTGGGAG
 >CD5_HsgRNA48
 GTTGTTCAGTTGGATATAGACCACGGAGA

(13) S_{13}^+ : 15 high on-target activity sgRNAs targeting CD28

>CD28_HsgRNA1
 GACTACATGAACATGACTCCCCGGAGGCCT
 >CD28_HsgRNA2
 CACGACCAGTGCCCAAAACAGCTTAGGAGA

>CD28_HsgRNA3
 CTCTCGTTGTCTAGGTAAGGCGGAGGGTAC
 >CD28_HsgRNA4
 TTACCTAGACAACGAGAGGAGCAATGGAAC
 >CD28_HsgRNA5
 GCTCCTCTCGTTGTCTAGGTAAGGCGGAGG
 >CD28_HsgRNA6
 CAATGACACTCAGGCTGCTGTTCTTGGCTC
 >CD28_HsgRNA7
 CCCTGCTTGTGGTAGATAGCAACGAGGTCA
 >CD28_HsgRNA8
 CCTCGTTGCTATCTACCACAAGCAGGGGCG
 >CD28_HsgRNA9
 GCCCTCATCAGAACAATGACACTCAGGCTG
 >CD28_HsgRNA10
 GAACTCGGCATTTCGAGCGAAACTGGGGCTG
 >CD28_HsgRNA11
 TGATTGACGTGCAGATTCCAGAGACGGAAC
 >CD28_HsgRNA12
 AGGTTGTAGGAATACCTGCAGCTGAGGCTG
 >CD28_HsgRNA13
 GGAATTCCGGGCATCCCTGTACAAGGGCGT
 >CD28_HsgRNA14
 CAACTTCTTCTCAGTTCAAGTAACAGGTAA
 >CD28_HsgRNA15
 CTCGTTGCTATCTACCACAAGCAGGGGCGA

(14) S_{14}^+ : 34 high on-target activity sgRNAs targeting H2-K

>H2-K_HsgRNA1
 GCGGAGAATCCGAGATATGAGCCGCGGGCG
 >H2-K_HsgRNA2
 AAGCAGAGAGACTCAGGGCCTACCTGGAGG
 >H2-K_HsgRNA3
 CACCAGCCTGCTCCCACTTGTGTTTGGTGA
 >H2-K_HsgRNA4
 TCGTAGGCGTACTGCTGGTACCCGCGGAGG
 >H2-K_HsgRNA5
 CAGGAGGGGCCCCGAGTATTGGGAGCGGGAG
 >H2-K_HsgRNA6
 AGGGCAATGAGCAGAGTTTCCGAGTGGACC
 >H2-K_HsgRNA7
 CCACCACAGATGCCCACTTCTGGAAGGTTC
 >H2-K_HsgRNA8
 TGATCACCAAACACAAGTGGGAGCAGGCTG

>H2-K_HsgRNA9
ACTTCCATGTACCGGGGCTCCCCGAGGCCG
>H2-K_HsgRNA10
GTGACGAAATACCTCAGCGAGTGTGGGCCT
>H2-K_HsgRNA11
TGAACGAAGACCTGAAAACGTGGACGGCGG
>H2-K_HsgRNA12
GCGGCGCTGATCACCAAACACAAGTGGGAG
>H2-K_HsgRNA13
CTCCCGGCCCGTACTCACCCGCGCGGGTC
>H2-K_HsgRNA14
TAGGCGTACTGCTGGTACCCGCGGAGGAGT
>H2-K_HsgRNA15
TCCACGTAGCCGACTTCCATGTACCGGGGC
>H2-K_HsgRNA16
AGACCTGAAGATAAAGTCACCCTGAGGTGC
>H2-K_HsgRNA17
TGCTCTGGTTGTAGTAGCCGAGCAGGGTCC
>H2-K_HsgRNA18
AAATCTTCCACACAGATTCCCCAAAGGCC
>H2-K_HsgRNA19
CTCGGAAACTCTGCTCATTGCCCTTGGCTT
>H2-K_HsgRNA20
CAGAGAGACTCAGGGCCTACCTGGAGGGCA
>H2-K_HsgRNA21
CCGAGATATGAGCCGCGGGCGGGTGGATG
>H2-K_HsgRNA22
CCGAGCAGGGTCCTCAGGTCCACTCGGAAA
>H2-K_HsgRNA23
GCGGGCGCGGTGGATGGAGCAGGAGGGGCC
>H2-K_HsgRNA24
CGGCGCTGATCACCAAACACAAGTGGGAGC
>H2-K_HsgRNA25
TCTGGCTGTGAAGTGGGGTCCGACGGGCGA
>H2-K_HsgRNA26
CCCTGGCTCCGACTCAGACCCGCGGGGTG
>H2-K_HsgRNA27
CGCGGGTCTGAGTCGGAGCCAGGGCGGCCG
>H2-K_HsgRNA28
CCCCGTACATGGAAGTCGGCTACGTGGACG
>H2-K_HsgRNA29
CCACGTAGCCGACTTCCATGTACCGGGGCT
>H2-K_HsgRNA30
CGGGTACCAGCAGTACGCCTACGACGGCTG

>H2-K_HsgRNA31
CACGTAGCCGACTTCCATGTACCGGGGCTC
>H2-K_HsgRNA32
CAGGTCTGCTGTGATGGGTCACATGGGCCT
>H2-K_HsgRNA33
AGGCTGGTGAAGCAGAGAGACTCAGGGCCT
>H2-K_HsgRNA34
TCTGTGTCTCCCGCTCCCAATACTCGGGCC

(15) S_{15}^+ : 56 high on-target activity sgRNAs targeting CD45

>CD45_HsgRNA1
TGACAAAGACTTCTGTGTCCAGAAGGGCAA
>CD45_HsgRNA2
CCAGAAATGATGATTGCTGCTCAGGGGCCA
>CD45_HsgRNA3
CAGAAACGCCTAAGCCTAGTTGTGGGGATC
>CD45_HsgRNA4
AGCTAAGGCGACAGAGGTGTCTGATGGTGC
>CD45_HsgRNA5
CCAGAAGTTTGAGCCACAAACCCATGGTCA
>CD45_HsgRNA6
AGACAATAGTATAAATGTTACATGTGGTCC
>CD45_HsgRNA7
CATTAATGCATCCTTTGTGATGGTAGGTAC
>CD45_HsgRNA8
CATCAATGTAGCTGGCATTATGTAGGTGG
>CD45_HsgRNA9
TTGGAATGTCTCAGCTCAAAAGTTCGGAGA
>CD45_HsgRNA10
ACTTACATAGCTGCACACCACCCAGGCCG
>CD45_HsgRNA11
TGTAACATTTATACTATTGTCTGTCGGCCG
>CD45_HsgRNA12
TCACACGATGTGAAGAAGGAAACAGGGTAA
>CD45_HsgRNA13
CTGCACTTTCCAAGAGATTGAACAAGGCAC
>CD45_HsgRNA14
GCGCAGAATACTGGCCAAGCATGGAGGAAG
>CD45_HsgRNA15
GATGAGACAGTTGATGACTTCTGGAGGATG
>CD45_HsgRNA16
CCTTAGTGCTGGTGTGGGCGTACAGGTAC
>CD45_HsgRNA17
AACTATAGATTTATATGTACCACCAGGTGA

>CD45_HsgRNA18
TCTTATAGCATAAAAACATATCCATGGGGTT
>CD45_HsgRNA19
TTTGATAGGTCCGGACAAGGTCAATGGAAT
>CD45_HsgRNA20
TTTAATCAGATGATTATAACCGTGTGGAAC
>CD45_HsgRNA21
TTTGATCAGGGCTTCAAGGAACCCAGGAAA
>CD45_HsgRNA22
CAGGCAGCTCTTCCCCTTTCCATGTGGTAC
>CD45_HsgRNA23
CCAGCATGGCATCAATTCCAATGTAGGTAC
>CD45_HsgRNA24
AATACATTAATGCATCCTTTGTGATGGTAG
>CD45_HsgRNA25
AGTACCAGTGTACCACATGGAAAGGGGAAG
>CD45_HsgRNA26
AAGGCCTGGAAGCAGAGGGCAAAGTGGATG
>CD45_HsgRNA27
GCTACCTGGTATTTCAGCCTCCAGAGGGGAG
>CD45_HsgRNA28
CTCTCTGAAATAAATGGAGATGCAGGGTCC
>CD45_HsgRNA29
GACAGAGATGGATCCCAGCAGACAGGGTTG
>CD45_HsgRNA30
AGGTGAGGGTCTTCAGGAACCCCATGGTCT
>CD45_HsgRNA31
GACAGAGGTGTCTGATGGTGCAAGTGGAGG
>CD45_HsgRNA32
ACCTGAGTCTGCATCTAAACCCCATGGATA
>CD45_HsgRNA33
TCTTGCAGCTGGATCCCCACAACCTAGGCTT
>CD45_HsgRNA34
CCCAGCATCGTACCTGGCTCACAGTGGAGT
>CD45_HsgRNA35
GATGGGAAACTTGCTGAATACCCGTGGAAT
>CD45_HsgRNA36
AGCTGGATCCCCACAACCTAGGCTTAGGCGT
>CD45_HsgRNA37
TCAGGGGCCACTAAAAGAAACGATCGGTGA
>CD45_HsgRNA38
TTTAGGGCCATTAGTTTCATAAGGAGGACC
>CD45_HsgRNA39
ACTTGTACTTAACTCCTAGGGCCCCGGGAT

>CD45_HsgRNA40
 ATGTGTAGCAGAAATCTTATATCGCGGTGT
 >CD45_HsgRNA41
 ATTTGTATCTTTCAGAGCATTCCACGGGTA
 >CD45_HsgRNA42
 AGAGGTGTCTGATGGTGCAAGTGGAGGTAC
 >CD45_HsgRNA43
 GTTATAAATGTGCAGACAGATTTGGGGAGT
 >CD45_HsgRNA44
 TTCCTAACCTGCAGTGGACGAGGATGGATG
 >CD45_HsgRNA45
 CTTGTACTTAACTCCTAGGGCCCCGGGATG
 >CD45_HsgRNA46
 CTTATAGCATAAAAACATATCCATGGGGTTT
 >CD45_HsgRNA47
 TTCTTATAGCATAAAAACATATCCATGGGGT
 >CD45_HsgRNA48
 TTTGTATCTTTCAGAGCATTCCACGGGTAT
 >CD45_HsgRNA49
 GAAGTCATCAACTGTCTCATCCCGGGGCC
 >CD45_HsgRNA50
 CCTTTCCATGTGGTACACTGGTACTGGTAC
 >CD45_HsgRNA51
 GCTTTGCGTAGAGACTTTACCACTTGAAAA
 >CD45_HsgRNA52
 ATCGTGTGACCATGACAATAACTGTGGCCT
 >CD45_HsgRNA53
 GTCTTTACCTGCAGTGCACCACAATGGGAC
 >CD45_HsgRNA54
 CCATTTATTTTCAGAGAGTTCCACACGGTTA
 >CD45_HsgRNA55
 CCAATTCACCAGCTGGCCAGACCATGGGGT
 >CD45_HsgRNA56
 TATGTTGTCAAGCTAAGGCGACAGAGGTGT

(16) S_{16}^+ : 13 high on-target activity sgRNAs targeting THY1

>THY1_HsgRNA1
 AGCCAACCTCACCACCAAGGATGAGGGCGA
 >THY1_HsgRNA2
 GTGCCAGTCTTGCAGGTGTCCCGAGGGCAG
 >THY1_HsgRNA3
 TTCTCATGGCGGCAGTCCAGGCGAAGGTTT
 >THY1_HsgRNA4
 TGTGCCAGTCTTGCAGGTGTCCCGAGGGCA

>THY1_HsgRNA5
 TTACCCTAGCCAACTTCACCACCAAGGATG
 >THY1_HsgRNA6
 TTATCCTTGGTGTATTCTCATGGCGGCAG
 >THY1_HsgRNA7
 GGTACGTGTGCTCGGGTATCCCAAGGGTGC
 >THY1_HsgRNA8
 AGGGCTGGTTGGAGAGGGTGACGCGGGAGC
 >THY1_HsgRNA9
 CATCCTTGGTGGTGAAGTTGGCTAGGGTAA
 >THY1_HsgRNA10
 CACAGACAAGCTGGTCAAGTGTGGCGGCAT
 >THY1_HsgRNA11
 CCTTGATATAGGGCTGGTTGGAGAGGGTGA
 >THY1_HsgRNA12
 TCTCGGGTCAGGCTGAACTCATGCTGGATG
 >THY1_HsgRNA13
 TTGGTGGTGAAGTTGGCTAGGGTAAGGACC

(17) S_{17}^+ : 35 high on-target activity sgRNAs targeting CD43

>CD43_HsgRNA1
 ACAGAACTGGTTGCTGTGGTAGCAGGGAGT
 >CD43_HsgRNA2
 CGCCACAACAGCAGTAGCGCCACGAGGGCC
 >CD43_HsgRNA3
 GAAGACAATTCAGTAGTTTCCAAGGGGGTTC
 >CD43_HsgRNA4
 AAGAAGACAATTCAGTAGTTTCCAAGGGGG
 >CD43_HsgRNA5
 CTGCAGTTCCGTCTGTCCACAGGATTGGCTG
 >CD43_HsgRNA6
 AAGACAATTCAGTAGTTTCCAAGGGGGTCA
 >CD43_HsgRNA7
 GTCACCACAGCTACTGGGTCTCTGGGGCCC
 >CD43_HsgRNA8
 AATGCCAGCCCATCAGTTTCTGTGGGGTCA
 >CD43_HsgRNA9
 TCTACCCAAGATCCCATAACCACCAGGTCA
 >CD43_HsgRNA10
 TGGACCCAGCATGCCCAAAGAGGAGGAGA
 >CD43_HsgRNA11
 GTCCCTGACCCACAGAACTGATGGGCTG
 >CD43_HsgRNA12
 GGAGCTTACTGTTGTAGCCACAGAGGGTCC

>CD43_HsgRNA13
ATGTCTTGCTGGAAACTTCCTGAGAGGCAG
>CD43_HsgRNA14
GCTGGAAACTTCCTGAGAGGCAGTAGGCTC
>CD43_HsgRNA15
AGAAGACAATTCAGTAGTTTCCAAGGGGGT
>CD43_HsgRNA16
ACAGGATTGGCTGCAGTGACAGGAGGGTCA
>CD43_HsgRNA17
CCTTGCACCTTCTCCTCCTCTTTGGGGCAT
>CD43_HsgRNA18
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA19
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA20
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA21
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA22
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA23
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA24
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA25
CACTGCAGCCAATCCTGTGACAGACGGACC
>CD43_HsgRNA26
ATTGGCTGCAGGTCCGTCTGTCACAGGATT
>CD43_HsgRNA27
AGATGCTGCAGTTCCGTCTGTCACAGGATT
>CD43_HsgRNA28
ATGGGCTGGCATTCTGGGCTTCAGAGGTAC
>CD43_HsgRNA29
TGGAGCTGTGATATGTGGGGTAGATGGTAG
>CD43_HsgRNA30
ACCTGGACCCAGCATGCCCCAAAGAGGAGG
>CD43_HsgRNA31
TCTGGGGCCCTCGAGTGAGATGCATGGACT
>CD43_HsgRNA32
TTGTGGTCTGCCCCAGGGGCTGATGGTCT
>CD43_HsgRNA33
AGAGGTACTTGGAGCTGTGATATGTGGGGT
>CD43_HsgRNA34
TCTTTGGGGCATGCTGGGTCCAGGTGGCGA

>CD43_HsgRNA35
TTGATTCTTGGCTTGGTGACCTGGTGGTTA

(18) S₁: 377 low on-target activity sgRNAs targeting CD13

>CD13_LsgRNA1
TCAGAAATAATACCAACAACCTGGAGGGAGA
>CD13_LsgRNA2
GTCAAACAGCTCACTGATCTGGGCCGGCGT
>CD13_LsgRNA3
CATGAACCGCTGGACCCTGCAGATGGGCTT
>CD13_LsgRNA4
CCAGAACGATCTCTTCAGCACATCAGGCAA
>CD13_LsgRNA5
CGGTAACGATTCCACGCTTTACTTTGGTCC
>CD13_LsgRNA6
TAAAAACGTACAGGCCCTGTCATTGGGGG
>CD13_LsgRNA7
GTGGAACCTCAGTGACATTCCAGTTGGGGTC
>CD13_LsgRNA8
TGGAAATATAGAAGCCCTTGGCCATGGTGA
>CD13_LsgRNA9
TAGGAATCGGGTTTCAGCGTGTGGGGAGG
>CD13_LsgRNA10
TCATAATGACCAGCAAAGAAGTTAAGGATG
>CD13_LsgRNA11
CGGTACACATCATTTCAGCACCATGAGGTCT
>CD13_LsgRNA12
CAGAACACCATCTACCTGAACCTGTGGGAC
>CD13_LsgRNA13
AACTACACCCTCAGCCAGGGGCACAGGGTG
>CD13_LsgRNA14
CCTCACACCTTGCAGATCCGGATCTGGGCC
>CD13_LsgRNA15
GTGCACACGGCTGCCACGCCAGGAGGATC
>CD13_LsgRNA16
GGAGACACTCACGGTTATTATTGGGGTTC
>CD13_LsgRNA17
AGTGACAGGGACCTTATGGGCACTGGGAAT
>CD13_LsgRNA18
TTGGACAGGGCTGTCAGGTCCTTGGGGTGG
>CD13_LsgRNA19
AGTGACATTCCAGTTGGGGTCTTCTGGAAG
>CD13_LsgRNA20
AATGACCAGCAAAGAAGTTAAGGATGGGGC

>CD13_LsgRNA21
CTCCACCCACAGGCTGTGAACAACCGGTCC
>CD13_LsgRNA22
TTCAACGCCGGCGCCATGGAGAACTGGGGA
>CD13_LsgRNA23
GCGGACGGGGTGGTGGAGGCCACGGGGGAG
>CD13_LsgRNA24
AAAAACGTACAGGCCCTGTCATTGGGGGT
>CD13_LsgRNA25
TCGAACTCGCTGTCCATCTCATACTGGCTG
>CD13_LsgRNA26
GAGAACTGGGGACTGGTGACCTACCGGGAG
>CD13_LsgRNA27
GGGAGACACTCACGGTTATTATTGGGGT
>CD13_LsgRNA28
CAGTAGACGGTGGACCGCAGGTTGGGGTGG
>CD13_LsgRNA29
TGCCAGACTTCAACGCCGGCGCCATGGAGA
>CD13_LsgRNA30
ACACAGATGCAGGCTGCAGATGCCCGGAAG
>CD13_LsgRNA31
TATGAGATGGACAGCGAGTTCGAGGGGGAG
>CD13_LsgRNA32
GGCCAGCAAGTACGTGGACATCTTGGGCGT
>CD13_LsgRNA33
CCTCAGCCACCACCAACCCCGCCTCGGCCA
>CD13_LsgRNA34
AGGGAGCCCTTGAGGTGCACCACCAGGTAC
>CD13_LsgRNA35
AGGCAGCGGAGCACTCACCTGGCCAGGTTG
>CD13_LsgRNA36
GAGGAGCGGGCTGCACCTTGCTGTAGGAGA
>CD13_LsgRNA37
TCTCAGCGTCACCCGGTAGGAATCGGGTTT
>CD13_LsgRNA38
CACCAGCTCAGTCTTGTCAATGTCGGGGGG
>CD13_LsgRNA39
GAGGAGGACAGGGGGTCGAACAGCAGGGAG
>CD13_LsgRNA40
TTCTAGGCCATCCCTGTCATCAATCGGGCA
>CD13_LsgRNA41
TCCGAGGCGGGTGTGGACAGCGGGTGGGAG
>CD13_LsgRNA42
GCCCAGGGTGCAGTACTCACCGCCAGGCC

>CD13_LsgRNA43
GCACAGGGTGGTCCTGCGTGGTGTGGGAGG
>CD13_LsgRNA44
GCCCAGTGCCATTGCGGCGGGCCACGGCGA
>CD13_LsgRNA45
ACGGAGTTCCAGAGTGTGAGGAGATGGTCT
>CD13_LsgRNA46
TTCCAGTTGGGGTCTTCTGGAAGTGGGGTG
>CD13_LsgRNA47
TGCCATCAGCACCGCCTGCTCCAACGGAGT
>CD13_LsgRNA48
CATAATCGCCGTGGCCCGCCCAATGGCAC
>CD13_LsgRNA49
TGGCATCGCCTCCCCAGACCAGATTGGCCT
>CD13_LsgRNA50
CCCCATCTGCTCACTTGAATTCTGAGGGGC
>CD13_LsgRNA51
AATGATCTGTGCCCGATTGATGACAGGGAT
>CD13_LsgRNA52
ATTAATGACGCCTTCAACCTGGCCAGGTGA
>CD13_LsgRNA53
GTTTCATGATGTCCCGCACGGTGGTGGGAG
>CD13_LsgRNA54
TACCATGCACCTCCGTACCTTCATGGGGCC
>CD13_LsgRNA55
CTTCATGGCCGGCTCATCGAAGCATGGGAA
>CD13_LsgRNA56
CTCCATGGCGCCGGCGTTGAAGTCTGGCAG
>CD13_LsgRNA57
CCTGATGTGCTGAAGAGATCGTTCTGGGCT
>CD13_LsgRNA58
TATTATTTCTGAAGTGAATGAAGAGGGGTG
>CD13_LsgRNA59
ACTGCAACGCTATCGCCAGGGCGGGGAGG
>CD13_LsgRNA60
GCTCCAACGGAGTTCCAGAGTGTGAGGAGA
>CD13_LsgRNA61
ACCTCAATGTGACGGGCTATTACCGGGTGA
>CD13_LsgRNA62
TGTGCACAATCATCGCACTGTCAGTGGTGT
>CD13_LsgRNA63
AGGTCACCAGTCCCCAGTTCTCCATGGCGC
>CD13_LsgRNA64
AGAACACCATCTACCTGAACCTGTGGGACC

>CD13_LsgRNA65
TGACCACCCGCTCCTTGTGCTGCTGGAGG
>CD13_LsgRNA66
ACTACACCCTCAGCCAGGGGCACAGGGTGG
>CD13_LsgRNA67
GGACCACCCTGTGCCCTGGCTGAGGGTGT
>CD13_LsgRNA68
CCAGCACCGTCCGTTTCACCTGCAAGGAGG
>CD13_LsgRNA69
CTCACACCTTGCAGATCCGGATCTGGGCCC
>CD13_LsgRNA70
CCCGCACGGTGGTGGGGAGTTGGATGGACC
>CD13_LsgRNA71
GGAGCACTCACCTGGCCAGGTTGAAGGCGT
>CD13_LsgRNA72
ATGGCACTGGGCCGGGCCAGATCCGGATC
>CD13_LsgRNA73
TGGTCACTGTGATTGCTCATGAGCTGGCCC
>CD13_LsgRNA74
ACCCCACTTCCAGAAGACCCCAACTGGAAT
>CD13_LsgRNA75
CCATCAGAGATGGCAGACAGCAGCAGGACT
>CD13_LsgRNA76
GCGCCAGAGTGACAGGGACCTTATGGGCAC
>CD13_LsgRNA77
TGACCAGCAAAGAAGTTAAGGATGGGGCCC
>CD13_LsgRNA78
AGGCCAGCAAGTACGTGGACATCTTGGGCG
>CD13_LsgRNA79
ATACCAGCACGGGGACCCTTTCCCAGGAGC
>CD13_LsgRNA80
CCTCCAGCAGCAACAAGGAGCGGGTGGTCA
>CD13_LsgRNA81
CGAACAGCAGGGAGTTCTCCCGGTAGGTCA
>CD13_LsgRNA82
TGGACAGCGAGTTCGAGGGGGAGTTGGCAG
>CD13_LsgRNA83
GTCTCAGCGTCACCCGGTAGGAATCGGGTT
>CD13_LsgRNA84
CCACCAGCTCAGTCTTGTCAATGTCGGGGG
>CD13_LsgRNA85
TGGGCAGCTGGCTTACCAAGTTCCAGGTGG
>CD13_LsgRNA86
GGCACAGGGTGGTCCTGCGTGGTGTGGGAG

>CD13_LsgRNA87
GGTTCAGGTAGATGGTGTCTGCTAGGCAA
>CD13_LsgRNA88
GCCACAGGTCATTCCACCACTCTATGGTCA
>CD13_LsgRNA89
CTGACAGTGCGATGATTGTGCACACGGCTG
>CD13_LsgRNA90
ATTCCAGTTGGGGTCTTCTGGAAGTGGGGT
>CD13_LsgRNA91
ATCTCATACTGGCTGTCCTTCACCAGGGAG
>CD13_LsgRNA92
GGTTCATGATGTCCCGCACGGTGGTGGGGA
>CD13_LsgRNA93
CTACCATGCACCTCCGTACCTTCATGGGGC
>CD13_LsgRNA94
AGATCATTAATGACGCCTTCAACCTGGCCA
>CD13_LsgRNA95
CCGACATTGACAAGACTGAGCTGGTGGAGC
>CD13_LsgRNA96
GTAACATTGGAATCGGGGTCAAGGAGGAAG
>CD13_LsgRNA97
TGGTCCAAGGTGGTGGCCGAGGCGGGTTG
>CD13_LsgRNA98
ATTTCCAAGTCCCTGGGCATCCTGGGGATC
>CD13_LsgRNA99
AGGACCACCCTGTGCCCCTGGCTGAGGGTG
>CD13_LsgRNA100
GCTGCCACGCCAGGAGGATCCCCAGGATG
>CD13_LsgRNA101
GATTCCACGCTTTACTTTGGTCCAAGGTGG
>CD13_LsgRNA102
TTCCCCAGA ACTACCTGAAGAAGCAGGTCA
>CD13_LsgRNA103
AGCGCCAGAGTGACAGGGACCTTATGGGCA
>CD13_LsgRNA104
ATGACCAGCAAAGAAGTTAAGGATGGGGCC
>CD13_LsgRNA105
GTGCCATAAGGTCCCTGTCACTCTGGCGC
>CD13_LsgRNA106
CCTCCCCACCATCACCATGGCCAAGGGCTT
>CD13_LsgRNA107
CCACCCCAGGGCGCCTCAGTCCTCAGGATG
>CD13_LsgRNA108
GGGCCCCATCCTTAACCTTCTTTGCTGGTCA

>CD13_LsgRNA109
GGATCCCAGGATGCCAGGGACTTGAAAA
>CD13_LsgRNA110
CCAACCCCGCCTCGGCCACCACCTTGGACC
>CD13_LsgRNA111
CTGACCCCTCCCCCACAGTGGTTCGGGAA
>CD13_LsgRNA112
GTCACCCCTGGGGCAGGTACAGCGAGGTTA
>CD13_LsgRNA113
ATGTCCCGCACGGTGGTGGGGAGTTGGATG
>CD13_LsgRNA114
CCCACCCGCTGTCCACACCCGCCTCGGAGA
>CD13_LsgRNA115
CACACCCTACCCACTCCAAAAATCAGGTGA
>CD13_LsgRNA116
TGACCCCTCCCCCACAGTGGTTCGGGAAC
>CD13_LsgRNA117
ATCTCCGAGGCGGGTGTGGACAGCGGGTGG
>CD13_LsgRNA118
TGGACCGCAGGTTGGGGTGGATCCTGGTGT
>CD13_LsgRNA119
TGGCCCGCCGCAATGGCACTGGGCCGGGCC
>CD13_LsgRNA120
CCACCCGCTCCTTGTTGCTGCTGGAGGAGG
>CD13_LsgRNA121
GGGCCCAGCCAGTGCCATTGCGGCGGGCC
>CD13_LsgRNA122
TAGCCCGTCACATTGAGGTTTACAGCAGGACC
>CD13_LsgRNA123
ACACCCTCAGCCAGGGGCACAGGGTGGTCC
>CD13_LsgRNA124
TCCTCCTCCAGCAGCAACAAGGAGCGGGTG
>CD13_LsgRNA125
CTGACCTCCTGCAGGTGGTCCCACAGGTTC
>CD13_LsgRNA126
GCATCCTGAGGACTGAGGCGCCCTGGGGTG
>CD13_LsgRNA127
GGGTCTGCTGAACCTCAATGTGACGGGCT
>CD13_LsgRNA128
GTGACCTGCTTCTTCAGGTAGTTCTGGGGA
>CD13_LsgRNA129
GCATCCTGGGGATCCTCCTGGGCGTGGCAG
>CD13_LsgRNA130
TGAACCTGTGGGACCACCTGCAGGAGGTCA

>CD13_LsgRNA131
CTGTCCTTCACCAGGGAGCCCTTGAGGTGC
>CD13_LsgRNA132
GGGTGGAACAGCAGGGAGTTCTCCCGGTAG
>CD13_LsgRNA133
TCATCGAAGCATGGGAAGGACTTCCGGGCA
>CD13_LsgRNA134
GAGGCGAAGCCCTCGTTCAGCCACAGGTCA
>CD13_LsgRNA135
CCCCCGACATTGACAAGACTGAGCTGGTGG
>CD13_LsgRNA136
TCCCCGAGATGGGGGTCTACCTGGTGGGCC
>CD13_LsgRNA137
GCTCCGAGGTCTATGGCCCCATGAAGGTAC
>CD13_LsgRNA138
ACGGCGATTATGCCCTGAACGTGACGGGCC
>CD13_LsgRNA139
CCGGCGCCATGGAGAACTGGGGACTGGTGA
>CD13_LsgRNA140
GGCCCCGCCAATGGCACTGGGCCGGGCC
>CD13_LsgRNA141
TCAACGCCGGCGCCATGGAGAACTGGGGAC
>CD13_LsgRNA142
ATGGCGCCGGCGTTGAAGTCTGGCAGGCCA
>CD13_LsgRNA143
GCTTCGCCTCCTACGTGGAGTACCTGGGTG
>CD13_LsgRNA144
CACCCGCCTCGGAGATCAACACGCCGGGCC
>CD13_LsgRNA145
GCAACGCTATCGCCAGGGCGGGGAGGAGG
>CD13_LsgRNA146
AACACGCTGAAACCCGATTCTACCGGGTG
>CD13_LsgRNA147
TACTCGCTGCGGTAGAAGCCCGCCAGGTCA
>CD13_LsgRNA148
TCCACGCTTTACTTTGGTCCAAGGTGGTGG
>CD13_LsgRNA149
GGCCCCGCCAGTGCCATTGCGGCGGGCCA
>CD13_LsgRNA150
CGGACGGGGTGGTGGAGGCCACGGGGGAGC
>CD13_LsgRNA151
GAATCGGGTTTCAGCGTGTGGGGAGGCGG
>CD13_LsgRNA152
GGTACGGTCTCAGCGTCACCCGGTAGGAAT

>CD13_LsgRNA153
TAGACGGTGGACCGCAGGTTGGGGTGGATC
>CD13_LsgRNA154
AAAACGTACAGGCCCTGTCATTGGGGGTG
>CD13_LsgRNA155
AGACCGTACCTCACCCCAATGACAGGGGC
>CD13_LsgRNA156
ATGGCGTCAAACAGCTCACTGATCTGGGCC
>CD13_LsgRNA157
GTCACGTTCAAGGCATAATCGCCGTGGCCC
>CD13_LsgRNA158
GCTTCTACCGCAGCGAGTACATGGAGGGCA
>CD13_LsgRNA159
GAAGCTCAACTACACCCTCAGCCAGGGGCA
>CD13_LsgRNA160
CCCCTCACCTTTGGGAAGCATGTTGGACA
>CD13_LsgRNA161
TCTGCTCACTTGAATTCTGAGGGGCGGGTA
>CD13_LsgRNA162
CCAGCTCAGTCTTGTCAATGTCGGGGGGCT
>CD13_LsgRNA163
CCTCCTCCAGCAGCAACAAGGAGCGGGTGG
>CD13_LsgRNA164
AGAGCTCCCACTCACTGGTCCATCAGGTTT
>CD13_LsgRNA165
TGGCCTCCTTGCAGGTGAAACGGACGGTGC
>CD13_LsgRNA166
CCCCTCCTTGTGCTGCTGGAGGAGGACA
>CD13_LsgRNA167
CACACTCTGGAACCTCCGTTGGAGCAGGCGG
>CD13_LsgRNA168
GGTCTGACTATGCGGAGCCCACCTGGAAC
>CD13_LsgRNA169
CGGGCTGCACCTTGCTGTAGGAGATGGCGT
>CD13_LsgRNA170
CCATCTGCTCACTTGAATTCTGAGGGGCGG
>CD13_LsgRNA171
CAGGCTGCTCAGGGCGGCCTCCCAGGGCAT
>CD13_LsgRNA172
GGTCTGCTGAACCTCAATGTGACGGGCTA
>CD13_LsgRNA173
CCTGCTGCTGTCTGCCATCTCTGATGGATG
>CD13_LsgRNA174
TGACCTGCTTCTCAGGTAGTTCTGGGGAA

>CD13_LsgRNA175
AAGTCTGGCAGGCCAATCTGGTCTGGGGAG
>CD13_LsgRNA176
GCAGCTGGCTTACCAAGTTCCAGGTGGGCT
>CD13_LsgRNA177
GCTCCTGGGAAAGGGTCCCCGTGCTGGTAT
>CD13_LsgRNA178
AGAAGTGGGGACTGGTGACCTACCGGGAGA
>CD13_LsgRNA179
CGTGCTGGTATCCACCGTGATGACCGGGAA
>CD13_LsgRNA180
GCCCCGTGCATTGGGGGTGAGGTACGGTCT
>CD13_LsgRNA181
AGCCCTGTCCAACATGCTTCCCAAAGGTGA
>CD13_LsgRNA182
GTACCTTCATGGGGCCATAGACCTCGGAGC
>CD13_LsgRNA183
AGTCCCTCCCATGCTTCGATGAGCCGGCCA
>CD13_LsgRNA184
CATGCTTCGATGAGCCGGCCATGAAGGCCG
>CD13_LsgRNA185
CGGGCTTCTACCGCAGCGAGTACATGGAGG
>CD13_LsgRNA186
AGGGCTTCTATATTTCCAAGTCCCTGGGCA
>CD13_LsgRNA187
GGGACTTGAAAATATAGAAGCCCTTGGCCA
>CD13_LsgRNA188
CAGTCTTGTCAATGTGCGGGGGCTGGGAGC
>CD13_LsgRNA189
TCACCTTTGGGAAGCATGTTGGACAGGGCT
>CD13_LsgRNA190
TTCAGAAATAATACCAACAACCTGGAGGGAG
>CD13_LsgRNA191
TCATGAACCGCTGGACCCTGCAGATGGGCT
>CD13_LsgRNA192
ACCTGAACCTGTGGGACCACCTGCAGGAGG
>CD13_LsgRNA193
ACAAGAACGCCAACAGCTCCCCCGTGGCCT
>CD13_LsgRNA194
CATCGAAGCATGGGAAGGACTTCCGGGCAT
>CD13_LsgRNA195
GCTTGAAGTAGCTCAGGCTGCTCAGGGCGG
>CD13_LsgRNA196
TCTGGAAGTGGGGTGTGTTGGACCTGGGCAG

>CD13_LsgRNA197
GTAGGAATCGGGTTTCAGCGTGTGGGGAG
>CD13_LsgRNA198
GGTGAATGACCTGTGGCTGAACGAGGGCT
>CD13_LsgRNA199
TGCTGAATGATGTGTACCGCGTGATGGCAG
>CD13_LsgRNA200
TGGGGAATTTGCAGAAAGACCTCATGGTGC
>CD13_LsgRNA201
GGGAGACACTCACGGGTTATTATTGGGGTT
>CD13_LsgRNA202
GAGTGACAGGGACCTTATGGGCACTGGGAA
>CD13_LsgRNA203
GTTGGACAGGGCTGTCAGGTCCCTGGGGTG
>CD13_LsgRNA204
CAAGGACCCCCACTCACCTGATTTTGGGAG
>CD13_LsgRNA205
GCTGGACCCTGCAGATGGGCTTCCCCGGTCA
>CD13_LsgRNA206
GGCGGACGGGGTGGTGGAGGCCACGGGGGA
>CD13_LsgRNA207
TGATGACGTCAGTGGCCTCCTTGCAGGTGA
>CD13_LsgRNA208
GCCAGAGACCATCTCCTCACACTCTGGAAC
>CD13_LsgRNA209
GTATGAGATGGACAGCGAGTTCGAGGGGGA
>CD13_LsgRNA210
CCCCGAGATGGGGGTCTACCTGGTGGGCCA
>CD13_LsgRNA211
CAAGGAGGAAGTGCTCCTGGGAAAGGTCC
>CD13_LsgRNA212
CCAGGAGGATCCCCAGGATGCCAGGGACT
>CD13_LsgRNA213
CCTTGAGGTGCACCACCAGGTACTCGGTGG
>CD13_LsgRNA214
TCCAGAGTGTGAGGAGATGGTCTCTGGCCT
>CD13_LsgRNA215
GGGGGAGTTGGCAGATGACCTGGCGGGCTT
>CD13_LsgRNA216
GGTGGATAAGCGTGATGTTGAACTCGGCCT
>CD13_LsgRNA217
GGGCGATAGCGTTGCAGTAGACGGTGGACC
>CD13_LsgRNA218
TGCAGATGGGCTTCCCCGTCATCACGGTGG

>CD13_LsgRNA219
TAAGGATGGGGCCCGTCACGTTTCAGGGCAT
>CD13_LsgRNA220
GGTAGATGGTGTCTGGTAGGCAAAGGTGT
>CD13_LsgRNA221
GCGTGATGTTGAACTCGGCCTTCATGGCCG
>CD13_LsgRNA222
CGGCGATTATGCCCTGAACGTGACGGGGCCC
>CD13_LsgRNA223
GATGGCAGACAGCAGCAGGACTACTGGCTG
>CD13_LsgRNA224
CCACGCAGGACCACCCTGTGCCCTGGCTG
>CD13_LsgRNA225
AGAAGCAGGCATCCAATGGTGTCTTGGTAT
>CD13_LsgRNA226
CCTTGCAGGTGAAACGGACGGTGCTGGAGC
>CD13_LsgRNA227
TCCTGCAGGTGGTCCCACAGGTTTCAGGTAG
>CD13_LsgRNA228
GGAAGCATGTTGGACAGGGCTGTCAGGTCC
>CD13_LsgRNA229
GTCTGCCATCTCTGATGGATGTGATGGGCA
>CD13_LsgRNA230
CCAGGCCCTGCTTGAATACGTCCTCGGACA
>CD13_LsgRNA231
CCCAGCCTCATACCAAGACACCATTGGATG
>CD13_LsgRNA232
CTTCGCCCTCTACGTGGAGTACCTGGGTGC
>CD13_LsgRNA233
AGAAGCTCAACTACACCCTCAGCCAGGGGC
>CD13_LsgRNA234
ACCAGCTCAGTCTTGTCAATGTCGGGGGGC
>CD13_LsgRNA235
ACACGCTGAAACCCGATTCTTACCGGGTGA
>CD13_LsgRNA236
TCAGGCTGCTCAGGGCGGCCTCCAGGGCA
>CD13_LsgRNA237
TTCGGGAACCTGGTGACCATAGAGTGGTGG
>CD13_LsgRNA238
GACAGGAAGCTGGAGAGCATCCTGAGGACT
>CD13_LsgRNA239
TTCTGGAAGTGGGGTGCTGGGACCTGGGCA
>CD13_LsgRNA240
GGTAGGAATCGGGTTTCAGCGTGTGGGGA

>CD13_LsgRNA241
TGTTGGACAGGGCTGTCAGGTCCTTGGGGT
>CD13_LsgRNA242
AGGAGGACAGGGGTTCGAACAGCAGGGAGT
>CD13_LsgRNA243
AGGCGGACGGGGTGGTGGAGGCCACGGGGG
>CD13_LsgRNA244
CCGAGGACGTATTCAAGCAGGGCCTGGCGG
>CD13_LsgRNA245
AGCTGGAGAGCATCCTGAGGACTGAGGCGC
>CD13_LsgRNA246
GGAGGGAGATCCCAGAAAACCTGATGGACC
>CD13_LsgRNA247
TCAAGGAGGAAGTGCTCCTGGGAAAGGGTC
>CD13_LsgRNA248
CCCAGGAGGATCCCCAGGATGCCAGGGAC
>CD13_LsgRNA249
TGGTGGAGGCCACGGGGGAGCTGTTGGCGT
>CD13_LsgRNA250
AGGGGGAGTTGGCAGATGACCTGGCGGGCT
>CD13_LsgRNA251
TTAAGGATGGGGCCCGTCACGTTTCAGGGCA
>CD13_LsgRNA252
CGCAGGCAGGGCCCACTCACCTTTGGGAAG
>CD13_LsgRNA253
CCTGGGCATCCTGGGGATCCTCCTGGGCGT
>CD13_LsgRNA254
TCTAGGCCATCCCTGTCATCAATCGGGCAC
>CD13_LsgRNA255
TACAGGCCCTGTCATTGGGGGTGAGGTAC
>CD13_LsgRNA256
TCTGGGCCCGGCCAGTGCCATTGCGGCGG
>CD13_LsgRNA257
TGGTGGCCGAGGCGGGTTGGTGGTGGCTG
>CD13_LsgRNA258
CCTGGGCGATAGCGTTGCAGTAGACGGTGG
>CD13_LsgRNA259
CCGAGGCGGGGTGGTGGTGGCTGAGGCGG
>CD13_LsgRNA260
GAGGGGCGGGTAACATTGGAATCGGGGTCA
>CD13_LsgRNA261
GGCCGGCGTGTTGATCTCCGAGGCGGGTGT
>CD13_LsgRNA262
TGTTGGCGTTCCTGTTCTTCTCCTGGGAGT

>CD13_LsgRNA263
TGGTGGCTGAGGCGGACGGGGTGGTGGAGG
>CD13_LsgRNA264
GGCTGGCTGCTACTGACCTCCTGCAGGTGG
>CD13_LsgRNA265
GGCTGGGAGCCTCCCACACCACGCAGGACC
>CD13_LsgRNA266
CCAGGGGCACAGGGTGGTCTCGTGGTGT
>CD13_LsgRNA267
CCCTGGGCATCCTGGGGATCCTCCTGGGCG
>CD13_LsgRNA268
TGAGGGGCGGGTAACATTGGAATCGGGGTC
>CD13_LsgRNA269
GACAGGGCTGTCAGGTCCTTGGGGTGGATA
>CD13_LsgRNA270
CTGAGGGGCGGGTAACATTGGAATCGGGGT
>CD13_LsgRNA271
TCGAGGGGGAGTTGGCAGATGACCTGGCGG
>CD13_LsgRNA272
AAGAGGGGTGTGACCTGCTTCTTCAGGTAG
>CD13_LsgRNA273
AGGCGGGGTTGGTGGTGGCTGAGGCGGACG
>CD13_LsgRNA274
AGGCGGTTGTGGACAGCGGGTGGGAGGAGG
>CD13_LsgRNA275
TCGGGGTCAAGGAGGAAGTGCTCCTGGGAA
>CD13_LsgRNA276
TGGTGGTGCACCTCAAGGGCTCCCTGGTGA
>CD13_LsgRNA277
AGCTGGTGGAGCCCACCGAGTACCTGGTGG
>CD13_LsgRNA278
GGGTGGTGGCCACTACACAGATGCAGGCTG
>CD13_LsgRNA279
AGGTGGTGGCCGAGGCGGGGTTGGTGGTGG
>CD13_LsgRNA280
TGGTGGTGGCTGAGGCGGACGGGGTGGTGG
>CD13_LsgRNA281
CCAAGGTGGTGGCCGAGGCGGGGTTGGTGG
>CD13_LsgRNA282
GGTTGGTGGTGGCTGAGGCGGACGGGGTGG
>CD13_LsgRNA283
CACAGGTTGAGGTAGATGGTGTCTGGTGG
>CD13_LsgRNA284
AAACGTACAGGCCCTGTCATTGGGGTGA

>CD13_LsgRNA285
GACCGTACCTCACCCCAATGACAGGGGCC
>CD13_LsgRNA286
TGGAGTACCTGGGTGCTGACTATGCGGAGC
>CD13_LsgRNA287
CCGAGTACCTGGTGGTGCACCTCAAGGGCT
>CD13_LsgRNA288
TCTGGTAGGCAAAGGTGTGGAGGTAGGACT
>CD13_LsgRNA289
TGGCGTCAAACAGCTCACTGATCTGGGCCG
>CD13_LsgRNA290
CGGGGTCAAGGAGGAAGTGCTCCTGGGAAA
>CD13_LsgRNA291
TTTGGTCCAAGGTGGTGGCCGAGGCGGGGT
>CD13_LsgRNA292
GGTGGTCCCACAGGTTTCAGGTAGATGGTGT
>CD13_LsgRNA293
TCCTGTCCGAGGACGTATTCAAGCAGGGCC
>CD13_LsgRNA294
CCCTGTCCTCCTCCAGCAGCAACAAGGAGC
>CD13_LsgRNA295
TACTGTCTCTCTTCAATCAGGAAGAGGGTG
>CD13_LsgRNA296
TGGGGTCTTCTGGAAGTGGGGTGCTGGGAC
>CD13_LsgRNA297
TGAGGTGCACCACCAGGTACTCGGTGGGCT
>CD13_LsgRNA298
TGCTGTGGATGATGATGACGTCAGTGGCCT
>CD13_LsgRNA299
CGCCGTGGCCCGCCGAATGGCACTGGGCC
>CD13_LsgRNA300
CAGGGTGGTCCTGCGTGGTGTGGGAGGCTC
>CD13_LsgRNA301
GTGAGTTCGACTACGTGGAGAAGCAGGCAT
>CD13_LsgRNA302
GCGTGTGATCTCCGAGGCGGGTGTGGACA
>CD13_LsgRNA303
CCTTGTGCTGCTGGAGGAGGACAGGGGGT
>CD13_LsgRNA304
TCCAGTTGGGGTCTTCTGGAAGTGGGGTGC
>CD13_LsgRNA305
CTCTGTTTATTTCCAGTGCCCATTAAGGTCC
>CD13_LsgRNA306
TCGGGTTTCAGCGTGTGGGGAGGCGGTAA

>CD13_LsgRNA307
CGGGTAACATTGGAATCGGGGTCAAGGAGG
>CD13_LsgRNA308
CTTCTACCGCAGCGAGTACATGGAGGGCAA
>CD13_LsgRNA309
ACCGTACCTCACCCCAATGACAGGGGCCT
>CD13_LsgRNA310
CGAGTACCTGGTGGTGCACCTCAAGGGCTC
>CD13_LsgRNA311
TGAATACGTCCTCGGACAGGAAGCTGGAGA
>CD13_LsgRNA312
CGTCTACTGCAACGCTATCGCCCAGGGCGG
>CD13_LsgRNA313
GGACTACTGGCTGATAGATGTAAGAGGTAA
>CD13_LsgRNA314
GCAGTAGACGGTGGACCGCAGGTTGGGGTG
>CD13_LsgRNA315
ACGCTATCGCCCAGGGCGGGGAGGAGGAGT
>CD13_LsgRNA316
GTATTATTTCTGAAGTGAATGAAGAGGGGT
>CD13_LsgRNA317
AACCTCAATGTGACGGGCTATTACCGGGTG
>CD13_LsgRNA318
CTGCTCACTTGAATTCTGAGGGGCGGGTAA
>CD13_LsgRNA319
CACTTCAGAAATAATACCAACAACCTGGAGG
>CD13_LsgRNA320
TTGGTCCAAGGTGGTGGCCGAGGCGGGGTT
>CD13_LsgRNA321
TATTTCCAAGTCCCTGGGCATCCTGGGGAT
>CD13_LsgRNA322
TCATTCCACCACTCTATGGTCACCAGGTTC
>CD13_LsgRNA323
CCAGTCCCAGTTCTCCATGGCGCCGGCGT
>CD13_LsgRNA324
CCTGTCCGAGGACGTATTCAAGCAGGGCCT
>CD13_LsgRNA325
GGGTTCTCCATCCACTGCTTGAAAAGGCCA
>CD13_LsgRNA326
CCCATCTGCTCACTTGAATTCTGAGGGGCG
>CD13_LsgRNA327
GAAGTCTGGCAGGCCAATCTGGTCTGGGGA
>CD13_LsgRNA328
GTGTTCTGGTAGGCAAAGGTGTGGAGGTAG

>CD13_LsgRNA329
GGGGTCTTCTGGAAGTGGGGTGCTGGGACC
>CD13_LsgRNA330
TCAGTCTTGTCAATGTCTGGGGGGCTGGGAG
>CD13_LsgRNA331
TGGATCTTTAATTGCAGCTACGTGTGGATT
>CD13_LsgRNA332
CGGGTGAAC TACGACGAAGAGAACTGGAGG
>CD13_LsgRNA333
AGCTTGAAGTAGCTCAGGCTGCTCAGGGCG
>CD13_LsgRNA334
GCGTTGAAGTCTGGCAGGCCAATCTGGTCT
>CD13_LsgRNA335
TGTTTGACGCCATCTCCTACAGCAAGGTGC
>CD13_LsgRNA336
AGTATGAGATGGACAGCGAGTTCGAGGGGG
>CD13_LsgRNA337
TGGCTGAGGCGGACGGGGTGGTGGAGGCCA
>CD13_LsgRNA338
TTCATGATGTCCCGCACGGTGGTGGGGAGT
>CD13_LsgRNA339
CTACTGCAACGCTATCGCCCAGGGCGGGGA
>CD13_LsgRNA340
ATTGTGCACACGGCTGCCACGCCCAGGAGG
>CD13_LsgRNA341
CATCTGCAGCCTGCATCTGTGTAGTGGCCA
>CD13_LsgRNA342
GCGTTGCAGTAGACGGTGGACCGCAGGTTG
>CD13_LsgRNA343
TCTGTGCCCGATTGATGACAGGGATGGCCT
>CD13_LsgRNA344
ACATTGCCCTCCATGTACTCGCTGCGGTAG
>CD13_LsgRNA345
ACTATGCGGAGCCCACCTGGAAC TTGGTAA
>CD13_LsgRNA346
ACCGTGCGGGACATCATGAACCGCTGGACC
>CD13_LsgRNA347
TGGCTGCTACTGACCTCCTGCAGGTGGTCC
>CD13_LsgRNA348
TGATTGCTCATGAGCTGGCCCACCAGGTAG
>CD13_LsgRNA349
TTGTTGCTGCTGGAGGAGGACAGGGGGTTCG
>CD13_LsgRNA350
TACGTGGACATCTTGGGCGTGGTGTGGAAC

>CD13_LsgRNA351
GTGCTGGAGCCCTTAAAAACGTACAGGCC
>CD13_LsgRNA352
GCCGTGGCCCGCCGCAATGGCACTGGGCCG
>CD13_LsgRNA353
TCAGTGGCCTCCTTGCAGGTGAAACGGACG
>CD13_LsgRNA354
CTGTTGGCGTTCTTGTCTTCTCCTGGGAG
>CD13_LsgRNA355
TTTCTGGGATCTCCCTCCAGTTGTTGGTAT
>CD13_LsgRNA356
ACGGTGGTGGGGAGTTGGATGGACCGTTG
>CD13_LsgRNA357
GGGTTGGTGGTGGCTGAGGCGGACGGGGTG
>CD13_LsgRNA358
GGCATGTACTGTCTCTCTTCAATCAGGAAG
>CD13_LsgRNA359
AGGGTGTAGTTGAGCTTCTTGCTGTGGATG
>CD13_LsgRNA360
TCATTGTCAGTGAGTTCGACTACGTGGAGA
>CD13_LsgRNA361
CTGATGTGCTGAAGAGATCGTTCTGGGCTG
>CD13_LsgRNA362
CGGGTGTGGACAGCGGGTGGGAGGAGCCA
>CD13_LsgRNA363
ATGGTGTCTGGTAGGCAAAGGTGTGGAGG
>CD13_LsgRNA364
TCCTTGTGCTGCTGGAGGAGGACAGGGGG
>CD13_LsgRNA365
ATATTTCCAAGTCCCTGGGCATCCTGGGGA
>CD13_LsgRNA366
AACCTTCCTGTTGGGGCAGGGTGGTGGCCA
>CD13_LsgRNA367
GGGCTTCTATATTTCCAAGTCCCTGGGCAT
>CD13_LsgRNA368
TGAATTCTGAGGGGCGGGTAACATTGGAAT
>CD13_LsgRNA369
GATGTTGAACTCGGCCTTCATGGCCGGCTC
>CD13_LsgRNA370
CTTGTGCTGCTGGAGGAGGACAGGGGGTC
>CD13_LsgRNA371
TACTTTGGTCCAAGGTGGTGGCCGAGGCGG
>CD13_LsgRNA372
GGGGTGGTGGTGGCTGAGGCGGACGGGGT

>CD13_LsgRNA373
 GGTGTTGTTTCAGCGCCAGAGTGACAGGGAC
 >CD13_LsgRNA374
 ACGCTTTACTTTGGTCCAAGGTGGTGGCCG
 >CD13_LsgRNA375
 ATTATTTCTGAAGTGAATGAAGAGGGGTGT
 >CD13_LsgRNA376
 CATGTTTGACCGCTCCGAGGTCTATGGCCC
 >CD13_LsgRNA377
 CACCTTTGGGAAGCATGTTGGACAGGGCTG

(19) S_2^- : 218 low on-target activity sgRNAs targeting CD15

>CD15_LsgRNA1
 GGAAAAGCAGGTACGAGGCCAGGGAGGAGG
 >CD15_LsgRNA2
 TCGAAAGCCAGGTAGAACTTGTAGCGGGCC
 >CD15_LsgRNA3
 GTTGAAGCGCAGCCGGCAGTCAGGGGGCGG
 >CD15_LsgRNA4
 GTGGAAGTAGCGGCGATAGACCGCGGGGT
 >CD15_LsgRNA5
 CCGAAATTGGGCTCCTGCACACAGTGGCCC
 >CD15_LsgRNA6
 CCGAACACGTCCACGGTCACATGTTGGCTC
 >CD15_LsgRNA7
 GGAAACAGGGGCTGGTGGCATGGGTGGTGA
 >CD15_LsgRNA8
 TTCCACCACCGCGACCTCGTGAAGGGGCC
 >CD15_LsgRNA9
 GGGCACCGTGGGGCTCGCCGACGGCGGGCGG
 >CD15_LsgRNA10
 GGCGACCTCCAGCCCCAGGCCCCCGGGCCA
 >CD15_LsgRNA11
 AGCCACTGGGACGAGCGCCAGGCCCCGGGTC
 >CD15_LsgRNA12
 CGATAGACCGCGGGGTTGCGGTGAGGAAA
 >CD15_LsgRNA13
 ACACAGACGGTCCATGGCAGCCCCGGCCT
 >CD15_LsgRNA14
 CAGCAGCACGCCCACCGGTGCGGACGGGGT
 >CD15_LsgRNA15
 CGAAAGCCAGGTAGAACTTGTAGCGGGCCA
 >CD15_LsgRNA16
 ACCCAGCGCTGGCCCCGGGGCCTGGGGCTG

>CD15_LsgRNA17
AGGCAGCGGCGGCGGCAGAAAGCCCTGGCGA
>CD15_LsgRNA18
CCGTAGGACGCGCGGTTCGGTGAGCAGGCGG
>CD15_LsgRNA19
GTGCAGGAGCCCAATTTTCGGGCACCGGCTG
>CD15_LsgRNA20
TACGAGGCCAGGGAGGAGGCACTTGGGAAG
>CD15_LsgRNA21
GGCCAGGCCTGAGGGCGGGTCGCCGGGGTG
>CD15_LsgRNA22
TGGAAGTAGCGGCGATAGACCGCGGGTTG
>CD15_LsgRNA23
GGCCAGTCGGGGGGCCCTTCACGAGGTCG
>CD15_LsgRNA24
GGACAGTGGCGGGGCCAGGCCTGAGGGCGG
>CD15_LsgRNA25
CGGCAGTGTGCGCCTGGATGCCCCAGGGCG
>CD15_LsgRNA26
TCGAAGTTCATCCAAACCCAGCGCTGGCCC
>CD15_LsgRNA27
GTCCAGTTGAAGAGGTTACTTGCCAGGCTT
>CD15_LsgRNA28
GTTTCATCCAAACCCAGCGCTGGCCCGGGG
>CD15_LsgRNA29
TGCCATGGACCGTCTGTGTGCTGGCGGCCG
>CD15_LsgRNA30
CCCAATTTTCGGGCACCGGCTGCCCCGGCCC
>CD15_LsgRNA31
GGCACAAAGCGCTCGTAGTTGGCACGGTCT
>CD15_LsgRNA32
GGCGCAACGCGTTGCTCGCTGGGGCGGTGC
>CD15_LsgRNA33
TTTCCACCACCGCGACCTCGTGAAGGGGCC
>CD15_LsgRNA34
AAGCCACCCCGGCGACCCGCCCTCAGGCCT
>CD15_LsgRNA35
GCAGCACGCCACCGGTTCGCGACGGGGTTG
>CD15_LsgRNA36
CCAACACGCGCAGATCCACCTCCTCGGCAG
>CD15_LsgRNA37
CGTCCACGTGGATGAAGGCGCCGCGGGGCA
>CD15_LsgRNA38
TGATCAGCGCCGTACACGTCAAGCCGGCGG

>CD15_LsgRNA39
AACCCAGCGCTGGCCCGGGGCTGGGGCT
>CD15_LsgRNA40
TGGACAGCGTAGCTCCGGCGCCAGTGGAAG
>CD15_LsgRNA41
GCGGCAGCTGCCCCAGCAAGCGTAGGTGA
>CD15_LsgRNA42
GCCCCAGGCCCCCGGGCCAGCGCTGGGTTT
>CD15_LsgRNA43
GGGCCAGGCCTGAGGGCGGGTCGCCGGGGT
>CD15_LsgRNA44
GCCCCAGGCGGGGGCCAGTCGGGGGGCCC
>CD15_LsgRNA45
AAAGCAGGTACGAGGCCAGGGAGGAGGCAC
>CD15_LsgRNA46
TGGACAGTGGCGGGGCCAGGCCTGAGGGCG
>CD15_LsgRNA47
GGGGCATCCAGGCGCACACTGCCGAGGAGG
>CD15_LsgRNA48
CCAACATGTGACCGTGGACGTGTTCCGGCCG
>CD15_LsgRNA49
TCATCAAACCCAGCGCTGGCCCGGGGGCC
>CD15_LsgRNA50
AAACCAGCGCTGGCCCGGGGCTGGGGC
>CD15_LsgRNA51
AGCCCCAGGCCCCCGGGCCAGCGCTGGGTT
>CD15_LsgRNA52
GCATCCAGGCGCACACTGCCGAGGAGGTGG
>CD15_LsgRNA53
TGCCCCAGGCGGGGGCCAGTCGGGGGGCC
>CD15_LsgRNA54
CACGCCACCGGTCGCGACGGGGTTGGCGA
>CD15_LsgRNA55
ATGCCCCAGGCGGGGGCCAGTCGGGGGGC
>CD15_LsgRNA56
GATGCCCCAGGCGGGGGCCAGTCGGGGGG
>CD15_LsgRNA57
GGGCCCCCGACTGGCCCCCGCCCTGGGGC
>CD15_LsgRNA58
GGCCCCCGACTGGCCCCCGCCCTGGGGCA
>CD15_LsgRNA59
GCCCCCGACTGGCCCCCGCCCTGGGGCAT
>CD15_LsgRNA60
TGGCCCCGCCACTGTCCAGGAAACAGGGGC

>CD15_LsgRNA61
GAAGCCCTGGCGACCTCCAGCCCCAGGCC
>CD15_LsgRNA62
TGCCCCGCGGCGCCTTCATCCACGTGGACG
>CD15_LsgRNA63
GGCACCGGCTGCCCCGGCCCCGGCCG
>CD15_LsgRNA64
TCGGCCGGGGCGGGCCGGGGCAGCCGGTGC
>CD15_LsgRNA65
TCCACCTCCTCGGCAGTGTGCGCCTGGATG
>CD15_LsgRNA66
ATCACCTCCTTCTGGGACGAGCCTTGGTGC
>CD15_LsgRNA67
AGCCCCTGTTTCCTGGACAGTGGCGGGGCC
>CD15_LsgRNA68
GGCCCCCTCACGAGGTCGCGGTGGTGAAA
>CD15_LsgRNA69
TCGCCGACGGCGGCGGGCGGGCGGCGC
>CD15_LsgRNA70
GTCCGACGGGGTTGGCGACCCCAGGGCA
>CD15_LsgRNA71
TCGGCGAGCCCCACGGTGCCCCCATGGCGC
>CD15_LsgRNA72
ACTTCGAGTCGCCCTCGCACTCCCCGGGGC
>CD15_LsgRNA73
GAAGCGCAGCCGGCAGTCAGGGGGCGGCCT
>CD15_LsgRNA74
GCGCCGCCCGCCCGCCGCGCCGTCGGCGA
>CD15_LsgRNA75
GGCTCGCCGACGGCGGCGGGCGGGCGG
>CD15_LsgRNA76
TCAGCGCCGTACACGTCAAGCCGGCGGCCG
>CD15_LsgRNA77
TGTGCGCCTGGATGCCCCAGGGCGGGGGCC
>CD15_LsgRNA78
TGTTTCGCGCCATGGGGGCACCGTGGGGCTC
>CD15_LsgRNA79
GCGGCGGGGTGGCGCCGAGCCGGGGGCT
>CD15_LsgRNA80
GCAACGCGTTGCGCCAGAGCTTCTCGGTGA
>CD15_LsgRNA81
AAAGCGCTCGTAGTTGGCACGGTCTGGGCC
>CD15_LsgRNA82
ACGGCGCTGATCACCTACGCTTGCTGGGGG

>CD15_LsgRNA83
CAGCCGCTGATGTTGAAGCGCAGCCGGCAG
>CD15_LsgRNA84
CAGCCGGCAGTCAGGGGGCGGCCTCGGGGC
>CD15_LsgRNA85
ACCCCGGCGACCCGCCCTCAGGCCTGGCCC
>CD15_LsgRNA86
ACGGCGGCGGGCGGGCGGGCGGGCGGGTGG
>CD15_LsgRNA87
GCGGCGGCGGGCGGGCGGGCGGGTGGCGC
>CD15_LsgRNA88
CTGCCGGCTGCGCTTCAACATCAGCGGCTG
>CD15_LsgRNA89
TCGCCGGGTGGCTTCTGGGGTAGAGGTAG
>CD15_LsgRNA90
AGGGCGGGTCGCCGGGGTGGCTTCTGGGGT
>CD15_LsgRNA91
TCCACGGTCACATGTTGGCTCAGTTGGTGG
>CD15_LsgRNA92
GGCACGGTCTGGGCCAGCACCACCGGCAC
>CD15_LsgRNA93
CGACCGGTGGGCGTGCTGCTGTGGTGGGAG
>CD15_LsgRNA94
GGCTCGTCCCAGAAGGAGGTGATGTGGACA
>CD15_LsgRNA95
TGGACGTGTTTCGGCCGGGGCGGGCCGGGGC
>CD15_LsgRNA96
TGGACTACGAGGAGGCAGCGGCGGGCAG
>CD15_LsgRNA97
CCTGCTCACCGACCGCGCTCCTACGGAGA
>CD15_LsgRNA98
CGCACTCCCCGGGGCTGCGAAGCCTGGCAA
>CD15_LsgRNA99
CTACCTTACCCAGAAGCCACCCGGCGA
>CD15_LsgRNA100
AGGCCTGAGGGCGGGTCGCCGGGGTGGCTT
>CD15_LsgRNA101
GGCGCTGATCACCTACGCTTGCTGGGGGCA
>CD15_LsgRNA102
CGTGCTGCTGTGGTGGGAGCCCTTCGGGGG
>CD15_LsgRNA103
TCAACTGGACGCTCTCCTACCGGGCGGACT
>CD15_LsgRNA104
AGCGCTGGCCCGGGGCCTGGGGCTGGAGG

>CD15_LsgRNA105
GCTTCTGGGGTAGAGGTAGCCATAAGGCAC
>CD15_LsgRNA106
TACGCTGTCCACATCACCTCCTTCTGGGAC
>CD15_LsgRNA107
GCTGCTGTGGTGGGAGCCCTTCGGGGGGCG
>CD15_LsgRNA108
GTTACTTGCCAGGCTTCGAGCCCCGGGGA
>CD15_LsgRNA109
CGAGGAAAAGCAGGTACGAGGCCAGGGAGG
>CD15_LsgRNA110
CCAGGAAACAGGGGCTGGTGGCATGGGTGG
>CD15_LsgRNA111
TGTTGAAGCGCAGCCGGCAGTCAGGGGGCG
>CD15_LsgRNA112
AGTGGAAGTAGCGGCGATAGACCGCGGGGT
>CD15_LsgRNA113
TTGGGAAGTCGTCCACGTGGATGAAGGCGC
>CD15_LsgRNA114
TCGCGACCGGTGGGCGTGCTGCTGTGGTGG
>CD15_LsgRNA115
ATGTGACCGTGGACGTGTTTCGGCCGGGGCG
>CD15_LsgRNA116
TGGCGACCTCCAGCCCCAGGCCCCGGGCC
>CD15_LsgRNA117
TCGCGACGGGGTTGGCGACGCCAGGGCAG
>CD15_LsgRNA118
CAAAGACGTCCGAGTCCGCCCGGTAGGAGA
>CD15_LsgRNA119
TGGTGAGCCACTGGGACGAGCGCCAGGCCC
>CD15_LsgRNA120
GTACGAGGCCAGGGAGGAGGCACTTGGGAA
>CD15_LsgRNA121
CTTCGAGTCGCCCTCGCACTCCCCGGGGCT
>CD15_LsgRNA122
AGCAGCACGCCACCGGTCGCGACGGGGTT
>CD15_LsgRNA123
GGGGGCAGCTGCCGCCGCTGCCCTGGGCGT
>CD15_LsgRNA124
GCCGGCAGTCAGGGGGCGCCCTCGGGGCGC
>CD15_LsgRNA125
GGCCGCCAGCACACAGACGGTCCATGGCAG
>CD15_LsgRNA126
GGCTGCCATGGACCGTCTGTGTGCTGGCGG

>CD15_LsgRNA127
GGATGCCCCAGGGCGGGGGCCAGTCGGGGG
>CD15_LsgRNA128
ACTGGCCCCCGCCCTGGGGCATCCAGGCGC
>CD15_LsgRNA129
GCTGGCCCCGGGGCCTGGGGCTGGAGGTTCG
>CD15_LsgRNA130
TGGCGCCGAGGCCGGGGGCTGCCATGGACC
>CD15_LsgRNA131
CGCCGCCCGCGTCGGCGAGCCCCACGGTGC
>CD15_LsgRNA132
GTGCGCCTGGATGCCCCAGGGCGGGGGCCA
>CD15_LsgRNA133
TCAGGCCTGGCCCCGCCACTGTCCAGGAAA
>CD15_LsgRNA134
GGGGGCCTGGGGCTGGAGGTCCAGGGCT
>CD15_LsgRNA135
TCTGGCGCAACGCGTTGCTCGCTGGGGCGG
>CD15_LsgRNA136
GTGTGCGCCTGGATGCCCCAGGGCGGGGGC
>CD15_LsgRNA137
GGCGGCGCGGTTGGCGCCGAGCCGGGGGC
>CD15_LsgRNA138
ATCTGCGCGTGTGGACTACGAGGAGGCAG
>CD15_LsgRNA139
CGGGGCGCTATCGCGCCCCCGAAGGGCTC
>CD15_LsgRNA140
GACGGCGGCGGCGGGCGGGCGGCGGGGTG
>CD15_LsgRNA141
CGGCGCGGTTGGCGCCGAGCCGGGGGCTG
>CD15_LsgRNA142
CGTTGCTCGCTGGGGCGGTGCCGGTGGTGC
>CD15_LsgRNA143
AAGCGCTCGTAGTTGGCACGGTCTGGGCCC
>CD15_LsgRNA144
GGACGCTCTCCTACCGGGCGGACTCGGACG
>CD15_LsgRNA145
CGGCGCTGATCACCTACGCTTGCTGGGGGC
>CD15_LsgRNA146
CAGCGCTGCCTGTTTCGCGCCATGGGGGCAC
>CD15_LsgRNA147
AGGTGCTGCGAGTTCTCGAAAGCCAGGTAG
>CD15_LsgRNA148
CAGAGCTTCTCGGTGATATAATCCAGGTGC

>CD15_LsgRNA149
TCGAGGAAAAGCAGGTACGAGGCCAGGGAG
>CD15_LsgRNA150
TCCAGGAAACAGGGGCTGGTGGCATGGGTG
>CD15_LsgRNA151
TGTTGGACTACGAGGAGGCAGCGGCGGCGG
>CD15_LsgRNA152
CCGAGGAGGTGGATCTGCGCGTGTGGACT
>CD15_LsgRNA153
TGGGGGCACCGTGGGGCTCGCCGACGGCGG
>CD15_LsgRNA154
CCGGGGCAGCCGGTGCCCGAAATTGGGCTC
>CD15_LsgRNA155
TGGGGGCAGCTGCCGCGCTGCCCTGGGCG
>CD15_LsgRNA156
AGCCGGCAGTCAGGGGGCGGCTCGGGGCG
>CD15_LsgRNA157
CAGTGGCCCGCTACAAGTTCTACCTGGCTT
>CD15_LsgRNA158
TGGCGGCCGCGGCTTGACGTGTACGGCGC
>CD15_LsgRNA159
GCCAGGCCTGAGGGCGGGTCGCCGGGTGG
>CD15_LsgRNA160
GGTTGGCGACGCCAGGGCAGCGGCGGCAG
>CD15_LsgRNA161
TAGCGGCGATAGACCGGGGTTGCGGTCCG
>CD15_LsgRNA162
CTCTGGCGCAACGCGTTGCTCGCTGGGGCG
>CD15_LsgRNA163
TCCAGGCGCACACTGCCGAGGAGGTGGATC
>CD15_LsgRNA164
GGGCGGCGCGGTGGCGCCGAGCCGGGGG
>CD15_LsgRNA165
TCGGGGCGCTATCGCGCCCCCGAAGGGCT
>CD15_LsgRNA166
AGCCGGCGGCCCGCCAGCACACAGACGGTCC
>CD15_LsgRNA167
CAGTGGCGGGGCCAGGCCTGAGGGCGGGTC
>CD15_LsgRNA168
TGTTGGCTCAGTTGGTGGTAGTAGCGGACC
>CD15_LsgRNA169
GTGGGGCTCGCCGACGGCGGCGGCGGCGG
>CD15_LsgRNA170
CGCGGGGCACAAAGCGCTCGTAGTTGGCAC

>CD15_LsgRNA171
GCCGGGGCAGCCGGTGCCCGAAATTGGGCT
>CD15_LsgRNA172
GGGCGGGCGGCGGGGTGGCGCCGAGGCCG
>CD15_LsgRNA173
CGTGGGGCTCGCCGACGGCGGGCGGGCG
>CD15_LsgRNA174
CGCTGGGGCGGTGCCGGTGGTGCTGGGCCC
>CD15_LsgRNA175
TTCGGGGGCGCGATAGCGCCCCGAGGCCG
>CD15_LsgRNA176
GGGCGGGTCGCCGGGTGGCTTCTGGGGTA
>CD15_LsgRNA177
TGGTGGTAGTAGCGGACCCGGGCCTGGCGC
>CD15_LsgRNA178
GGCGGGTCGCCGGGTGGCTTCTGGGGTAG
>CD15_LsgRNA179
CACTGTCCAGGAAACAGGGGCTGGTGGCAT
>CD15_LsgRNA180
GGGCGTCGCAACCCCGTCGCGACCGGTGG
>CD15_LsgRNA181
GACCGTCTGTGTGCTGGCGGCCCGGCTT
>CD15_LsgRNA182
GACCGTGGACGTGTTCCGGCCGGGCGGGCC
>CD15_LsgRNA183
CACCGTGGGGCTCGCCGACGGCGGGCGGCG
>CD15_LsgRNA184
CACTGTGTGCAGGAGCCCAATTTTCGGGCAC
>CD15_LsgRNA185
GGACGTGTTTCGGCCGGGGCGGGCCGGGGCA
>CD15_LsgRNA186
ACGCGTTGCTCGCTGGGGCGGTGCCGGTGG
>CD15_LsgRNA187
GCGTGTGGACTACGAGGAGGCAGCGGCGG
>CD15_LsgRNA188
CGGGGTTGGCGACGCCAGGGCAGCGGCGG
>CD15_LsgRNA189
TTCATCCAAACCCAGCGCTGGCCCCGGGGG
>CD15_LsgRNA190
ACGGTCCATGGCAGCCCCCGGCCTCGGCGC
>CD15_LsgRNA191
TGTTTCCTGGACAGTGGCGGGGCCAGGCCT
>CD15_LsgRNA192
GGGCTCGCCGACGGCGGGCGGGCGGGCG

>CD15_LsgRNA193
CTGTTTCGCGCCATGGGGGCACCGTGGGGCT
>CD15_LsgRNA194
GGACTCGGACGTCTTTGTGCCTTATGGCTA
>CD15_LsgRNA195
GACCTCGTGAAGGGGCCCGACTGGCCC
>CD15_LsgRNA196
GCGGTCTATCGCCGCTACTTCCACTGGCGC
>CD15_LsgRNA197
TGGATCTGCGCGTGTGGACTACGAGGAGG
>CD15_LsgRNA198
ATGTTGAAGCGCAGCCGGCAGTCAGGGGGC
>CD15_LsgRNA199
CATGTGACCGTGGACGTGTTCCGGCCGGGGC
>CD15_LsgRNA200
GCGCTGATCACCTACGCTTGCTGGGGGCAG
>CD15_LsgRNA201
CCCATGCCACCAGCCCCTGTTTCCTGGACA
>CD15_LsgRNA202
AGTGTGCGCCTGGATGCCCCAGGGCGGGGG
>CD15_LsgRNA203
GTGCTGCTGTGGTGGGAGCCCTTCGGGGGG
>CD15_LsgRNA204
ACCGTGGACGTGTTCCGGCCGGGGCGGGCCG
>CD15_LsgRNA205
AGCCTGGCAAGTAACCTCTTCAACTGGACG
>CD15_LsgRNA206
CTGGTGGCATGGGTGGTGAGCCACTGGGAC
>CD15_LsgRNA207
GCTCTGGCGCAACGCGTTGCTCGCTGGGGC
>CD15_LsgRNA208
TCGCTGGGGCGGTGCCGGTGGTGCTGGGCC
>CD15_LsgRNA209
ACGCTGTCCACATCACCTCCTTCTGGGACG
>CD15_LsgRNA210
CTGCTGTGGTGGGAGCCCTTCGGGGGGCGC
>CD15_LsgRNA211
CCACTGTGTGCAGGAGCCCAATTCGGGGCA
>CD15_LsgRNA212
GACGTGTTCCGGCCGGGGCGGGCCGGGGCAG
>CD15_LsgRNA213
CCTGTTTCGCGCCATGGGGGCACCGTGGGGC
>CD15_LsgRNA214
GATGTTGAAGCGCAGCCGGCAGTCAGGGGG

>CD15_LsgRNA215
TTACTTGCCAGGCTTCGCAGCCCCGGGGAG
>CD15_LsgRNA216
TCAGTTGGTGGTAGTAGCGGACCCGGGCCT
>CD15_LsgRNA217
TGCTTTTCCTCGACCGCAACCCCGCGGTCT
>CD15_LsgRNA218
TGGCTTTCGAGAACTCGCAGCACCTGGATT

(20) S_3^- : 126 low on-target activity sgRNAs targeting CD33

>CD33_LsgRNA1
GAGGAAAGCAGCCAGGACAGCAGTGGGCAG
>CD33_LsgRNA2
ATCCAAATTTCTGGCTGCAAGTGCAGGAGT
>CD33_LsgRNA3
CAGGAATGACACCCACCCTACCACAGGGTC
>CD33_LsgRNA4
GGAAACAAGAGACCAGAGCAGGAGTGGTTC
>CD33_LsgRNA5
GCTCACAGGCCCAGGACACAGAGCAGGTCA
>CD33_LsgRNA6
ACTTACAGGTGACGTTGAGCTGGATGGTTC
>CD33_LsgRNA7
AGAGACCAGAGCAGGAGTGGTTCATGGGGC
>CD33_LsgRNA8
AATCACCCACGGCCCCAGGACCACGGCAC
>CD33_LsgRNA9
GAGCACCGAGGAGTGAGTAGTCCTGGGGCC
>CD33_LsgRNA10
AAAAACCTGACCTGCTCTGTGTCTGGGCC
>CD33_LsgRNA11
CCTGACCTGTCAGGTGAAGTTCGCTGGAGC
>CD33_LsgRNA12
AAGAACTCCCCAGTTCATGGTTACTGGTTC
>CD33_LsgRNA13
CAGCACTTACAGGTGACGTTGAGCTGGATG
>CD33_LsgRNA14
AGCCAGAAATTTGGATCCATAGCCAGGGCC
>CD33_LsgRNA15
ATCAAGAAGTACAGGAGGAGACTCAGGGCA
>CD33_LsgRNA16
CCACAGGCCCAAATCCTCATCCCTGGCAC
>CD33_LsgRNA17
GGGGAGGCTGACCCTGTGGTAGGGTGGGTG

>CD33_LsgRNA18
GCTCAGGGAGCAGTTGTTCTACTGGGATC
>CD33_LsgRNA19
ACTCAGGGCAGATTCCGCCTCCTTGGGGAT
>CD33_LsgRNA20
CAGCAGGGGCAGCAGTAGCAGCAGCGGCAT
>CD33_LsgRNA21
GGTCAGGTTGGTGCCGTGGTCTTGGGGCCG
>CD33_LsgRNA22
AGTGAGTAGTCCTGGGGCCCAGGGAGGTGG
>CD33_LsgRNA23
GAGTAGTCCTGGGGCCCAGGGAGGTGGGGG
>CD33_LsgRNA24
GAGGAGTGAGTAGTCCTGGGGCCCAGGGAG
>CD33_LsgRNA25
CTAGAGTGCCAGGGATGAGGATTTTGGGCC
>CD33_LsgRNA26
CCCCAGTTCATGGTTACTGGTTCCGGGAAG
>CD33_LsgRNA27
AGGGATAATGGTTCATACTTCTTTCCGGATG
>CD33_LsgRNA28
AGGAATGACACCCACCCTACCACAGGGTCA
>CD33_LsgRNA29
GAAAAATGCTCACATGAAGAAGATGAGGCAG
>CD33_LsgRNA30
TGTCATTCTGCCCCTGCTGTCTGGCTG
>CD33_LsgRNA31
CAAACAAGCTAGATCAAGAAGTACAGGAGG
>CD33_LsgRNA32
TGAGCACCGAGGAGTGAGTAGTCCTGGGGC
>CD33_LsgRNA33
CACTCACCGGGGAGGCTGACCCGTGGGTAG
>CD33_LsgRNA34
CAGCCACTCACCTGCCCACAGCAGGGGCAG
>CD33_LsgRNA35
AGACCAGAGCAGGAGTGGTTCATGGGGCCA
>CD33_LsgRNA36
AAAGCAGCCAGGACAGCAGTGGGCAGGAAT
>CD33_LsgRNA37
TCCCCAGCTCTCTGTGCATGTGACAGGTGA
>CD33_LsgRNA38
TGCTCAGGGAGCAGTTGTTCTACTGGGAT
>CD33_LsgRNA39
GACTCAGGGCAGATTCCGCCTCCTTGGGGA

>CD33_LsgRNA40
CTGTCAGGTGAAGTTCGCTGGAGCTGGTGT
>CD33_LsgRNA41
AGGTCAGGTTGGTGCCGTGGTCCTGGGGCC
>CD33_LsgRNA42
TCCCCAGTTCATGGTTACTGGTTCCGGGAA
>CD33_LsgRNA43
TGCTCATAATCACCCACGGCCCCAGGACC
>CD33_LsgRNA44
TGAGCATCGTAGACGCCAGGAGGAGGATA
>CD33_LsgRNA45
GGTTCATGGGGCCATTGGAGGAGCTGGTGT
>CD33_LsgRNA46
AGTTCATGGTTACTGGTTCCGGGAAGGAGC
>CD33_LsgRNA47
GAGACCAGAGCAGGAGTGGTTCATGGGGCC
>CD33_LsgRNA48
TCTCCCATCAGAGTGAAGACCCACAGGAGG
>CD33_LsgRNA49
AAGACCCACAGGAGGAAAGCAGCCAGGACA
>CD33_LsgRNA50
CAGGCCCAGGACACAGAGCAGGTCAGGTTT
>CD33_LsgRNA51
GTTTCCCACAGGGGCCCTGGCTATGGATC
>CD33_LsgRNA52
TGGGCCCCAGGACTACTCACTCCTCGGTGC
>CD33_LsgRNA53
GCTGCCCCCACCCTCCCTGGGCCCCAGGACT
>CD33_LsgRNA54
TGCTCCCTGAGCATCGTAGACGCCAGGAGG
>CD33_LsgRNA55
AGCACCGAGGAGTGAGTAGTCCTGGGGCCC
>CD33_LsgRNA56
TTCTCCTCACTAGACTTGACCCACAGGCCC
>CD33_LsgRNA57
AAAACCTGACCTGCTCTGTGTCCTGGGCCT
>CD33_LsgRNA58
CTGTCTGGCTGCTTTCCTCCTGTGGGTCT
>CD33_LsgRNA59
TAGTCCTGGGGCCCAGGGAGGTGGGGGCAG
>CD33_LsgRNA60
CCAGCGAACTTCACCTGACAGGTCAGGTTG
>CD33_LsgRNA61
AGTTCGCTGGAGCTGGTGTGACTACGGAGA

>CD33_LsgRNA62
TTCCCGGAACCAGTAACCATGAACTGGGGA
>CD33_LsgRNA63
ACCACGGCACCAACCTGACCTGTCAGGTGA
>CD33_LsgRNA64
AGATCGGGGGTGTTCCTGCTCACAGGCC
>CD33_LsgRNA65
GCAGCTGACAACCAGGAGAAGATCGGGGGT
>CD33_LsgRNA66
GCTACTGCTGCCCCTGCTGTGGGCAGGTGA
>CD33_LsgRNA67
TCACCTGTCACATGCACAGAGAGCTGGGGA
>CD33_LsgRNA68
CGAACTTCACCTGACAGGTCAGGTTGGTGC
>CD33_LsgRNA69
GGAGGAAAGCAGCCAGGACAGCAGTGGGCA
>CD33_LsgRNA70
GCCAGAAATTTGGATCCATAGCCAGGGCCC
>CD33_LsgRNA71
CAGGGAACACCCCGATCTTCTCCTGGTTG
>CD33_LsgRNA72
TCAAGAAGTACAGGAGGAGACTCAGGGCAG
>CD33_LsgRNA73
CTACGACAAGAACTCCCCAGTTCATGGTTA
>CD33_LsgRNA74
ACCTGACAGGTCAGGTTGGTGCCGTGGTCC
>CD33_LsgRNA75
CGTAGACGCCAGGAGGAGGGATAATGGTTC
>CD33_LsgRNA76
TGAGGCAGAGACAAAGAGCGAGCAGGGCTG
>CD33_LsgRNA77
CACAGCCACTCACCTGCCACAGCAGGGGC
>CD33_LsgRNA78
TTCCGCCTCCTTGGGGATCCCAGTAGGAAC
>CD33_LsgRNA79
TGCTGCTACTGCTGCCCCTGCTGTGGGCAG
>CD33_LsgRNA80
ACAAGCTAGATCAAGAAGTACAGGAGGAGA
>CD33_LsgRNA81
GGCAGCTGACAACCAGGAGAAGATCGGGGG
>CD33_LsgRNA82
TCCGGGAAGGAGCCATTATATCCAGGGACT
>CD33_LsgRNA83
AGCAGGAGTGTTTCATGGGGCCATTGGAGG

>CD33_LsgRNA84
ATGAGGCAGAGACAAAGAGCGAGCAGGGCT
>CD33_LsgRNA85
GGGAGGCTGACCCTGTGGTAGGGTGGGTGT
>CD33_LsgRNA86
TGCAGGGAAACAAGAGACCAGAGCAGGAGT
>CD33_LsgRNA87
TTCCGGGAAGGAGCCATTATATCCAGGGAC
>CD33_LsgRNA88
GCTGGGGAGATTTGTAAGTGTATTTGGTAC
>CD33_LsgRNA89
ACCGGGGAGGCTGACCCTGTGGTAGGGTGG
>CD33_LsgRNA90
CTCAGGGCAGATTCCGCCTCCTTGGGGATC
>CD33_LsgRNA91
CACCGGGGAGGCTGACCCTGTGGTAGGGTG
>CD33_LsgRNA92
AACTGGGGAGTTCTTGTTCGTAGTAGGGTAT
>CD33_LsgRNA93
GGGAGGTGGGGGCAGCTGACAACCAGGAGA
>CD33_LsgRNA94
GGTTGTCAGCTGCCCCACCTCCCTGGGCC
>CD33_LsgRNA95
AGTAGTCCTGGGGCCAGGGAGGTGGGGGC
>CD33_LsgRNA96
AGGAGTGAGTAGTCCTGGGGCCAGGGAGG
>CD33_LsgRNA97
GTTGGTGCCGTGGTCCTGGGGCCGTGGGGT
>CD33_LsgRNA98
AGGAGTGGTTCATGGGGCCATTGGAGGAGC
>CD33_LsgRNA99
CTCTGTGTCCTGGGCCTGTGAGCAGGGAAC
>CD33_LsgRNA100
CCGGGTCTAGAGTGCCAGGGATGAGGATT
>CD33_LsgRNA101
ACCCTACCACAGGGTCAGCCTCCCCGGTGA
>CD33_LsgRNA102
TTCTACTGGGATCCCCAAGGAGGCGGAAT
>CD33_LsgRNA103
TTCATACTTCTTTTCGGATGGAGAGAGGAAG
>CD33_LsgRNA104
GTTGTCAGCTGCCCCACCTCCCTGGGCC
>CD33_LsgRNA105
CAGGTCAGGTTGGTGCCGTGGTCCTGGGGC

>CD33_LsgRNA106
CAGCTCCAGCGAACTTCACCTGACAGGTCA
>CD33_LsgRNA107
TTGTTCTACTGGGATCCCCAAGGAGGCGG
>CD33_LsgRNA108
GCTGTCTGGCTGCTTTCCTCCTGTGGGTC
>CD33_LsgRNA109
GTAGTCCTGGGGCCAGGGAGGTGGGGGCA
>CD33_LsgRNA110
TTGATCTAGCTTGTGTTGTGGCCACTGGAGA
>CD33_LsgRNA111
AGTATGAACCATTATCCCTCCTCCTGGCGT
>CD33_LsgRNA112
CTCCTGCACTTGCAGCCAGAAATTTGGATC
>CD33_LsgRNA113
AGGATGCCCCATCACTCACCGGGGAGGCTG
>CD33_LsgRNA114
TTGGTGCCGTGGTCCTGGGGCCGTGGGGTG
>CD33_LsgRNA115
CTGCTGCTACTGCTGCCCCTGCTGTGGGCA
>CD33_LsgRNA116
CCACTGGAGAGTCCCTGGATATAATGGCTC
>CD33_LsgRNA117
TCCCTGGATATAATGGCTCCTTCCCGAAC
>CD33_LsgRNA118
GGAGTGGCCGGTTCTAGAGTGCCAGGGAT
>CD33_LsgRNA119
GCCCTGGCTATGGATCCAAATTTCTGGCTG
>CD33_LsgRNA120
GAACTGGGGAGTTCTTGTCTAGTAGGGTA
>CD33_LsgRNA121
ATAATGGTTCATACTTCTTTCGGATGGAGA
>CD33_LsgRNA122
GGGCTGTAACACCAGCTCCTCCAATGGCCC
>CD33_LsgRNA123
GCTCTGTGTCCTGGGCCTGTGAGCAGGGAA
>CD33_LsgRNA124
GGGGTGTTCCTGCTCACAGGCCAGGACA
>CD33_LsgRNA125
GTA CT TCTTGATCTAGCTTGTGTTGTGGCCA
>CD33_LsgRNA126
GGAGTTCTTGTCTAGTAGGGTATGGGATG

(21) S_4^- : 119 low on-target activity sgRNAs targeting CCDC101

>CCDC101_LsgRNA1
TGAGAAGTTCTGCAATGCGGGAATCGGCAG
>CCDC101_LsgRNA2
CCCCACAGCCCCAGGATGACTACTCGGTCC
>CCDC101_LsgRNA3
TCAAACAGGACCGAGTAGTCATCCTGGGGC
>CCDC101_LsgRNA4
ACTCACAGGCCCCACCCCTCTGTGGGGCC
>CCDC101_LsgRNA5
GTGAACATCCAGAAGACCCATGAGCGGATG
>CCDC101_LsgRNA6
TGTCACCAGGCTTCCCGATCCACAGGGGCA
>CCDC101_LsgRNA7
GGCCACGCAGCTTTGTCCGGTAATAGGGAG
>CCDC101_LsgRNA8
TTCCACTGGGGCAGCGGGATGACACGGCGC
>CCDC101_LsgRNA9
GTGTAGAGGCCACGCAGCTTTGTCCGGTAA
>CCDC101_LsgRNA10
TAGAAGCAGGTAGTCTGGGGATACAGGGCC
>CCDC101_LsgRNA11
GGGCAGCCACCTTGTCTCCAGGTCTGGCCA
>CCDC101_LsgRNA12
GGGGAGGGGAATAGCCATCTGCATAGGAGG
>CCDC101_LsgRNA13
GGCCATGACCCTGCCCTGTGGATCGGGAA
>CCDC101_LsgRNA14
AGGGATGGCCCCACAGAGGGGTGGGGGCCT
>CCDC101_LsgRNA15
AGTCATTGTAGAGACCGGCAATCTTGGCCG
>CCDC101_LsgRNA16
GAGACAAGGTGGCTGCCCGGGTGAAGGCCG
>CCDC101_LsgRNA17
CCCTCAATGTGGCTCAGAGATACGTGGTGG
>CCDC101_LsgRNA18
TTGTCACCAGGCTTCCCGATCCACAGGGGC
>CCDC101_LsgRNA19
CTCACAGGCCCCACCCCTCTGTGGGGCCA
>CCDC101_LsgRNA20
TCTGCATAGGAGGTGTCTTCAAACAGGACC
>CCDC101_LsgRNA21
GGGTCATCAGCACCCCTCTGCGCATGGTCT
>CCDC101_LsgRNA22
CTGGCCACGTAGTCTCCTGAGGCAGGGATG

>CCDC101_LsgRNA23
GGATCCACTGCTCGTCCCCATCCACGGCCT
>CCDC101_LsgRNA24
AGGGCCAGCACGAGCTGCTCCTTCTGGAAC
>CCDC101_LsgRNA25
TCCCCCAGGAGACACACCCTGAGCCGGCGC
>CCDC101_LsgRNA26
CCTTCCCACAGCGGCCAAGATTGCCGGTCT
>CCDC101_LsgRNA27
CGTCCCCATCCACGGCCTTCACCCGGGCAG
>CCDC101_LsgRNA28
TCGTCCCCATCCACGGCCTTCACCCGGGCA
>CCDC101_LsgRNA29
GCCACCCCGGAAGACCATGCGCAGAGGGGT
>CCDC101_LsgRNA30
AGCACCCCTCTGCGCATGGTCTTCCGGGGT
>CCDC101_LsgRNA31
CCTGCCCTGTGGATCGGGAAGCCTGGTGA
>CCDC101_LsgRNA32
CCACCCCGGAAGACCATGCGCAGAGGGGTG
>CCDC101_LsgRNA33
GCTGCCCGGGTGAAGGCCGTGGATGGGGAC
>CCDC101_LsgRNA34
GCACCCCTCTGCGCATGGTCTTCCGGGGTG
>CCDC101_LsgRNA35
CGGACCCCTGAGGCCTTGTTCCAGAAGGAGC
>CCDC101_LsgRNA36
CCATCCCTGCCTCAGGAGACTACGTGGCCA
>CCDC101_LsgRNA37
GGCGCCGGCTCAGGGTGTGTCTCCTGGGGG
>CCDC101_LsgRNA38
CTGCCCGGGTGAAGGCCGTGGATGGGGACG
>CCDC101_LsgRNA39
AAGGCCGTGGATGGGGACGAGCAGTGGATC
>CCDC101_LsgRNA40
CACCCCTCTGCGCATGGTCTTCCGGGGTGG
>CCDC101_LsgRNA41
TTTTCTTACAGGAAGAGCGTTCGCGGAGC
>CCDC101_LsgRNA42
TGCTCCTTCTGGAACAAGGCCTCAGGGTCC
>CCDC101_LsgRNA43
GGGACGAGCAGTGGATCCTGGCCGAGGTGG
>CCDC101_LsgRNA44
GCCACGCAGCTTTGTCCGGTAATAGGGAGA

>CCDC101_LsgRNA45
AGATCGCGGAAATCAAGTCTCTGTTGGAAG
>CCDC101_LsgRNA46
AGGGCGCGGTAGAAGCAGGTAGTCTGGGGA
>CCDC101_LsgRNA47
CAGTCGGCCATGACCCTGCCCTGTGGATC
>CCDC101_LsgRNA48
GCATCGGCCTTGGCGGTTGTGTAGAGGCCA
>CCDC101_LsgRNA49
GCGCCGGCTCAGGGTGTGTCTCCTGGGGGA
>CCDC101_LsgRNA50
CACCCGGCAGCCACCTTGTCTCCAGGTCT
>CCDC101_LsgRNA51
ACCACGTATCTCTGAGCCACATTGAGGGGA
>CCDC101_LsgRNA52
ACTACGTGGCCAGACCTGGAGACAAGGTGG
>CCDC101_LsgRNA53
TGCACTCAGCCTCTGCATCGGCCTTGGCGG
>CCDC101_LsgRNA54
CCGTCTCCGGGTTGGCCTTCCACTGGGGCA
>CCDC101_LsgRNA55
GTATCTCTGAGCCACATTGAGGGGAGGGGA
>CCDC101_LsgRNA56
TGTTCTCTGTCTGCATCCGCTCATGGGTCT
>CCDC101_LsgRNA57
TCCTCTGCAGTTTCTCCCTATTACCGGACA
>CCDC101_LsgRNA58
CCCTCTGCGCATGGTCTTCCGGGGTGGCTC
>CCDC101_LsgRNA59
AGACCTGGAGACAAGGTGGCTGCCCGGGTG
>CCDC101_LsgRNA60
AGCTCTGTGAGAAGTTCTGCAATGCGGGAA
>CCDC101_LsgRNA61
GTCTCTGTTGGAAGAGAGCGGATTGGTGA
>CCDC101_LsgRNA62
CAGGCTTCCCGATCCACAGGGGCAGGGTCA
>CCDC101_LsgRNA63
CTCACTTGCACTCAGCCTCTGCATCGGCCT
>CCDC101_LsgRNA64
GTTTGAAGACACCTCCTATGCAGATGGCTA
>CCDC101_LsgRNA65
CTCAGAGATACGTGGTGGCTTGTAAGGAAC
>CCDC101_LsgRNA66
GCACGAGCTGCTCCTTCTGGAACAAGGCCT

>CCDC101_LsgRNA67
TCCCGATCCACAGGGGCAGGGTCATGGCCG
>CCDC101_LsgRNA68
CCCTGATCCATGCGCCCCACAGCGGGTAA
>CCDC101_LsgRNA69
GCGGGATGACACGGCGCCGGCTCAGGGTGT
>CCDC101_LsgRNA70
TGCTGATGACCCTGCTGCAGCAGTCGGCCA
>CCDC101_LsgRNA71
CAGGGATGGCCCCACAGAGGGGTGGGGGCC
>CCDC101_LsgRNA72
TGGGGCAGCGGGATGACACGGCGCCGGCTC
>CCDC101_LsgRNA73
TGAGGCAGGGATGGCCCCACAGAGGGTGG
>CCDC101_LsgRNA74
GTCTGCATCCGCTCATGGGTCTTCTGGATG
>CCDC101_LsgRNA75
TCTGGCCACGTAGTCTCCTGAGGCAGGGAT
>CCDC101_LsgRNA76
CGCTGCCCCAGTGAAGGCCAACCCGGAGA
>CCDC101_LsgRNA77
GGCTGCCCCGGGTGAAGGCCGTGGATGGGGA
>CCDC101_LsgRNA78
CAATGCGGGAATCGGCAGACACGAGGGCCA
>CCDC101_LsgRNA79
GGGCGCGGTAGAAGCAGGTAGTCTGGGGAT
>CCDC101_LsgRNA80
ACCCGCTGTGGGGGCGCATGGATCAGGGCG
>CCDC101_LsgRNA81
CCAGGCTTCCCGATCCACAGGGGCAGGGTC
>CCDC101_LsgRNA82
GAGGGGAATAGCCATCTGCATAGGAGGTGT
>CCDC101_LsgRNA83
CTCAGGAGACTACGTGGCCAGACCTGGAGA
>CCDC101_LsgRNA84
CCCTGGAGGCTGCTTTACCCGCTGTGGGGG
>CCDC101_LsgRNA85
CTGAGGCAGGGATGGCCCCACAGAGGGGTG
>CCDC101_LsgRNA86
ACGTGGCCAGACCTGGAGACAAGGTGGCTG
>CCDC101_LsgRNA87
AGGTGGCTGCCCGGGTGAAGGCCGTGGATG
>CCDC101_LsgRNA88
GGCAGGGATGGCCCCACAGAGGGGTGGGGG

>CCDC101_LsgRNA89
TGTGGGGGCGCATGGATCAGGGCGCGGTAG
>CCDC101_LsgRNA90
ACCTGGGTTTGTGGATCAGCTGATGGAGC
>CCDC101_LsgRNA91
CCAGGGTTGGTGTCACTCACTTGTGGTGG
>CCDC101_LsgRNA92
TGAGGTAGATGACATCGATGAAGAAGGCAA
>CCDC101_LsgRNA93
CCACGTAGTCTCCTGAGGCAGGGATGGCCC
>CCDC101_LsgRNA94
CCACGTATCTCTGAGCCACATTGAGGGGAG
>CCDC101_LsgRNA95
CCCAGTGGAAGGCCAACCCGGAGACGGACC
>CCDC101_LsgRNA96
CGCCGTGTCATCCCGCTGCCCCAGTGGAAG
>CCDC101_LsgRNA97
CACGTATCTCTGAGCCACATTGAGGGGAGG
>CCDC101_LsgRNA98
TCCCTATTACCGGACAAAGCTGCGTGGCCT
>CCDC101_LsgRNA99
GAAATCAAGTCTCTGTTGGAAGAGAGGCGG
>CCDC101_LsgRNA100
GGTGTCACTCACTTGTGGTGGCATGGCTG
>CCDC101_LsgRNA101
AGGGTCATGGCCGACTGCTGCAGCAGGGTC
>CCDC101_LsgRNA102
CTTCTCCCCGCCCTCAGCATCCTTCGGAAA
>CCDC101_LsgRNA103
CTGCTCCTTCTGGAACAAGGCCTCAGGGTC
>CCDC101_LsgRNA104
CCTGTCTGCCTGCCCCACAGCCCCAGGATG
>CCDC101_LsgRNA105
GCCATGACCCTGCCCCTGTGGATCGGGAAG
>CCDC101_LsgRNA106
GCCCTGATCCATGCGCCCCACAGCGGGTA
>CCDC101_LsgRNA107
AGATTGCCGGTCTCTACAATGACTCGGAGC
>CCDC101_LsgRNA108
GCAATGCGGGAATCGGCAGACACGAGGGCC
>CCDC101_LsgRNA109
CAGCTGCTGCCCTCACTTGTCCACCAGGCTT
>CCDC101_LsgRNA110
TGCGTGGCCTCTACACAACCGCCAAGGCCG


```

>CCDC101_LsgRNA111
GGGTTGGCCTTCCACTGGGGCAGCGGGATG
>CCDC101_LsgRNA112
TGGATGGGGACGAGCAGTGGATCCTGGCCG
>CCDC101_LsgRNA113
GGGTTGGTGTCACTCACTTGGTGGGCAT
>CCDC101_LsgRNA114
TGGCTGTAACTGACCACCTCGGCCAGGATC
>CCDC101_LsgRNA115
GCTCTGTGAGAAGTTCTGCAATGCGGGAAT
>CCDC101_LsgRNA116
TCAATGTGGCTCAGAGATACGTGGTGGCTT
>CCDC101_LsgRNA117
CCTCTGTGGGGCCATCCCTGCCTCAGGAGA
>CCDC101_LsgRNA118
TGCTTTACCCGCTGTGGGGGCGCATGGATC
>CCDC101_LsgRNA119
CGGGTTGGCCTTCCACTGGGGCAGCGGGAT

```

(22) S_5^- : 1478 low on-target activity sgRNAs targeting MED12

```

>MED12_LsgRNA1
GCCAAAAACCAGGGGCCGGTGCTGAGGGCA
>MED12_LsgRNA2
GCCAAAAACCAGGGGCCGGTGCTGAGGGCA
>MED12_LsgRNA3
TGAGAAACATAAGGAGTATAGCCCTGGAGG
>MED12_LsgRNA4
TGAGAAACATAAGGAGTATAGCCCTGGAGG
>MED12_LsgRNA5
CCAAAAACCAGGGGCCGGTGCTGAGGGCAC
>MED12_LsgRNA6
CCAAAAACCAGGGGCCGGTGCTGAGGGCAC
>MED12_LsgRNA7
TGTTAAAGGCTGCTGGGGAAGAATTGGAGA
>MED12_LsgRNA8
TGTTAAAGGCTGCTGGGGAAGAATTGGAGA
>MED12_LsgRNA9
CCGCAAAGGGACAGCAGAACTGGTGGGTT
>MED12_LsgRNA10
CCGCAAAGGGACAGCAGAACTGGTGGGTT
>MED12_LsgRNA11
GAGGAACAGAAGAACTTCCAGAGGAGGAGG
>MED12_LsgRNA12
CAGCAACAGACAGCAGCTTTGGTCCGGCAA

```

>MED12_LsgRNA13
CAGCAACAGACAGCAGCTTTGGTCCGGCAA
>MED12_LsgRNA14
GGTCAACATGTCTCTTCTTAACCTTGGTCT
>MED12_LsgRNA15
GGTCAACATGTCTCTTCTTAACCTTGGTCT
>MED12_LsgRNA16
ATAGAACCAGGGTTTGGGTGGTGCAGGAGG
>MED12_LsgRNA17
ATAGAACCAGGGTTTGGGTGGTGCAGGAGG
>MED12_LsgRNA18
CTTCAACCCCTCAAAAAGATCCCAGGGCGA
>MED12_LsgRNA19
TTCGAACGCACCTCCTTCTGTTTGGGGTCC
>MED12_LsgRNA20
TTCGAACGCACCTCCTTCTGTTTGGGGTCC
>MED12_LsgRNA21
CCTTAACTACAGGCAAGGCTCCATAGGCCT
>MED12_LsgRNA22
CCTTAACTACAGGCAAGGCTCCATAGGCCT
>MED12_LsgRNA23
GATGAACTGCACATGCTGCACCAGAGGCAA
>MED12_LsgRNA24
GATGAACTGCACATGCTGCACCAGAGGCAA
>MED12_LsgRNA25
TTTCAACTGTCCCCTCAGGTGGGGAGGATG
>MED12_LsgRNA26
TTTCAACTGTCCCCTCAGGTGGGGAGGATG
>MED12_LsgRNA27
TAGGAAGAGCTGGGAGTCATCTGATGGACA
>MED12_LsgRNA28
TAGGAAGAGCTGGGAGTCATCTGATGGACA
>MED12_LsgRNA29
GCTGAAGCCCCTGGCGCTGGAAGTGGGTGG
>MED12_LsgRNA30
GCTGAAGCCCCTGGCGCTGGAAGTGGGTGG
>MED12_LsgRNA31
AAGCAAGGATACAGCGCTCTGCAGAGGAGC
>MED12_LsgRNA32
TGGTAAGGCTGGCTGGAGTAGCTGGGGGGC
>MED12_LsgRNA33
TGGTAAGGCTGGCTGGAGTAGCTGGGGGGC
>MED12_LsgRNA34
TTTCAATAACCAGCCTGCTGTCTCTGGGGA

>MED12_LsgRNA35
TTTCAATAACCAGCCTGCTGTCTCTGGGGA
>MED12_LsgRNA36
TCCAAATATGTTGGTACTGGGCTGTGGCTG
>MED12_LsgRNA37
TCCAAATATGTTGGTACTGGGCTGTGGCTG
>MED12_LsgRNA38
AGAAAATCACCAAGGATATCTTGAAGGTTC
>MED12_LsgRNA39
AGAAAATCACCAAGGATATCTTGAAGGTTC
>MED12_LsgRNA40
CTGCAATCCCACATGAGAAACATAAGGAGT
>MED12_LsgRNA41
CTGCAATCCCACATGAGAAACATAAGGAGT
>MED12_LsgRNA42
ATGAAATCCCAGTGCCTTACCCGCAGGATC
>MED12_LsgRNA43
ATGAAATCCCAGTGCCTTACCCGCAGGATC
>MED12_LsgRNA44
CTCCAATGAGTGCCAGGGCGTCCAGGCAG
>MED12_LsgRNA45
CTCCAATGAGTGCCAGGGCGTCCAGGCAG
>MED12_LsgRNA46
GCAGACAAAGCTGTAGCGGTTAGCAGGGTT
>MED12_LsgRNA47
GCAGACAAAGCTGTAGCGGTTAGCAGGGTT
>MED12_LsgRNA48
AAGAACAATTTGGGGAGCTCTTCAGGTAA
>MED12_LsgRNA49
AAGAACAATTTGGGGAGCTCTTCAGGTAA
>MED12_LsgRNA50
GCCCACAACCATGACTGGCGTCATGGGTTT
>MED12_LsgRNA51
GCCCACAACCATGACTGGCGTCATGGGTTT
>MED12_LsgRNA52
ATCTACAAGAGTAGGATTGGTAGAAGGGTG
>MED12_LsgRNA53
ATCTACAAGAGTAGGATTGGTAGAAGGGTG
>MED12_LsgRNA54
TATAACACACCTTAACTACAGGCAAGGCTC
>MED12_LsgRNA55
TATAACACACCTTAACTACAGGCAAGGCTC
>MED12_LsgRNA56
GCAAACACGGCTCCATCCACGATGCGGTTC

>MED12_LsgRNA57
GTACACAGAGGTCTTATAAGAGGAGGGTTC
>MED12_LsgRNA58
GTACACAGAGGTCTTATAAGAGGAGGGTTC
>MED12_LsgRNA59
TCACACAGGACTATGGAATGGGCCCGGGTC
>MED12_LsgRNA60
TCACACAGGACTATGGAATGGGCCCGGGTC
>MED12_LsgRNA61
AGAGACAGGCGGAGATTGAGGCTGAGGTTA
>MED12_LsgRNA62
AGAGACAGGCGGAGATTGAGGCTGAGGTTA
>MED12_LsgRNA63
AACCACAGGGGATGCGGAACTGAAAGGTTC
>MED12_LsgRNA64
AACCACAGGGGATGCGGAACTGAAAGGTTC
>MED12_LsgRNA65
TGACACATACCTGCAGTAGCTTCTGGCAT
>MED12_LsgRNA66
TGACACATACCTGCAGTAGCTTCTGGCAT
>MED12_LsgRNA67
ATCCACATCGACTGCTGGACAATGAGGATG
>MED12_LsgRNA68
ATCCACATCGACTGCTGGACAATGAGGATG
>MED12_LsgRNA69
GTAAACATCGGGAGGCCCCAGCCGCGGCCG
>MED12_LsgRNA70
GTAAACATCGGGAGGCCCCAGCCGCGGCCG
>MED12_LsgRNA71
CTCGACATCTGGCTTCTCAGGGGATGGACT
>MED12_LsgRNA72
CTCGACATCTGGCTTCTCAGGGGATGGACT
>MED12_LsgRNA73
TGGAACATGCCTCCTTCTTGAAGATGGAAT
>MED12_LsgRNA74
TGGAACATGCCTCCTTCTTGAAGATGGAAT
>MED12_LsgRNA75
TAACACATGTCCCTGGACTGAGGTGGGCAG
>MED12_LsgRNA76
TAACACATGTCCCTGGACTGAGGTGGGCAG
>MED12_LsgRNA77
AGGGACATGTGTTAAAGGCTGCTGGGGAAG
>MED12_LsgRNA78
AGGGACATGTGTTAAAGGCTGCTGGGGAAG

>MED12_LsgRNA79
GCAAACCAAAGCAGCTTATGCATGAGGCAC
>MED12_LsgRNA80
GCAAACCAAAGCAGCTTATGCATGAGGCAC
>MED12_LsgRNA81
CGATACCAAGGGCAACAAGATTGCTGGCTT
>MED12_LsgRNA82
CGATACCAAGGGCAACAAGATTGCTGGCTT
>MED12_LsgRNA83
GTGAACCAAGTGTTAATGGCACTCTGGGAT
>MED12_LsgRNA84
GTGAACCAAGTGTTAATGGCACTCTGGGAT
>MED12_LsgRNA85
TGAAACCACAAGTGCCATTGTTAGAGGAGC
>MED12_LsgRNA86
TGAAACCACAAGTGCCATTGTTAGAGGAGC
>MED12_LsgRNA87
CTCTACCACACACACCTGAGGCCCGGCC
>MED12_LsgRNA88
CTCTACCACACACACCTGAGGCCCGGCC
>MED12_LsgRNA89
ATACACCAGAGCGCTCTAGAGAGCTGGAGA
>MED12_LsgRNA90
ATACACCAGAGCGCTCTAGAGAGCTGGAGA
>MED12_LsgRNA91
TTCCACCCGCTCACTCTCACTTCGAGGGTC
>MED12_LsgRNA92
TTCCACCCGCTCACTCTCACTTCGAGGGTC
>MED12_LsgRNA93
GCGGACCCTCGAAGTGAGAGTGAGCGGGTG
>MED12_LsgRNA94
GCGGACCCTCGAAGTGAGAGTGAGCGGGTG
>MED12_LsgRNA95
GATGACCCTGTCTCTGCTGACTGTTGGAAA
>MED12_LsgRNA96
GATGACCCTGTCTCTGCTGACTGTTGGAAA
>MED12_LsgRNA97
GAACACCGGCCCTGAAGCGGCCGCGGCTG
>MED12_LsgRNA98
GAACACCGGCCCTGAAGCGGCCGCGGCTG
>MED12_LsgRNA99
TGGGACCTAGCAAGGATGGGCATGAGGTAA
>MED12_LsgRNA100
TGGGACCTAGCAAGGATGGGCATGAGGTAA

>MED12_LsgRNA101
GCTTACCTCATGCCCATCCTTGCTAGGTCC
>MED12_LsgRNA102
GCTTACCTCATGCCCATCCTTGCTAGGTCC
>MED12_LsgRNA103
TCACACCTTCACCTACACGGGGCTAGGCAA
>MED12_LsgRNA104
TCACACCTTCACCTACACGGGGCTAGGCAA
>MED12_LsgRNA105
AGCTACGAACACCGGCCCTGAAGCGGCCG
>MED12_LsgRNA106
AGCTACGAACACCGGCCCTGAAGCGGCCG
>MED12_LsgRNA107
AGGAACGCAAGAAGAAGTCCACCAAGGGCA
>MED12_LsgRNA108
AGGAACGCAAGAAGAAGTCCACCAAGGGCA
>MED12_LsgRNA109
GTACACGGAGACTGGCCCTGCAGCTGGATG
>MED12_LsgRNA110
GTACACGGAGACTGGCCCTGCAGCTGGATG
>MED12_LsgRNA111
AGGCACTAGGACAGCACAGGAGGATGGTCT
>MED12_LsgRNA112
AGGCACTAGGACAGCACAGGAGGATGGTCT
>MED12_LsgRNA113
CCCTACTATGCCCTGTGAGGGGAAGGGCAG
>MED12_LsgRNA114
CCCTACTATGCCCTGTGAGGGGAAGGGCAG
>MED12_LsgRNA115
CAGGACTATGGAATGGGCCCGGTTCGGAGC
>MED12_LsgRNA116
CAGGACTATGGAATGGGCCCGGTTCGGAGC
>MED12_LsgRNA117
AGGCACTCAAACCTGCGGCTCAACCTGGTGA
>MED12_LsgRNA118
AGGCACTCAAACCTGCGGCTCAACCTGGTGA
>MED12_LsgRNA119
TGCCACTCACACAGGACTATGGAATGGGCC
>MED12_LsgRNA120
TGCCACTCACACAGGACTATGGAATGGGCC
>MED12_LsgRNA121
TGGCACTCACCTGCAGGTAGTGGCTGGTTC
>MED12_LsgRNA122
AGCCACTCACGCAACTAGCCAAAAAGGTAA

>MED12_LsgRNA123
AGCCACTCACGCAACTAGCCAAAAAGGTAA
>MED12_LsgRNA124
CTGCACTCAGTGACTTGCAATAGCCGGTCA
>MED12_LsgRNA125
CTATACTCCTTATGTTTCTCATGTGGGATT
>MED12_LsgRNA126
CTATACTCCTTATGTTTCTCATGTGGGATT
>MED12_LsgRNA127
ACTGACTGATAGCAGAATTAAGACCGGCTC
>MED12_LsgRNA128
ACTGACTGATAGCAGAATTAAGACCGGCTC
>MED12_LsgRNA129
ATCGACTGCTGGACAATGAGGATGGGGAAA
>MED12_LsgRNA130
ATCGACTGCTGGACAATGAGGATGGGGAAA
>MED12_LsgRNA131
GGGTACTTCATACTTTGGAAGTGCTGGACA
>MED12_LsgRNA132
GGGTACTTCATACTTTGGAAGTGCTGGACA
>MED12_LsgRNA133
TAACACTTGGTTCACTGACTTGGCTGGCAC
>MED12_LsgRNA134
TAACACTTGGTTCACTGACTTGGCTGGCAC
>MED12_LsgRNA135
GAGCAGAAAGGGAGCCAGAGGCGATGGAAC
>MED12_LsgRNA136
GAGCAGAAAGGGAGCCAGAGGCGATGGAAC
>MED12_LsgRNA137
GAACAGAAGAACTTCCAGAGGAGGAGGGAG
>MED12_LsgRNA138
GAACAGAAGAACTTCCAGAGGAGGAGGGAG
>MED12_LsgRNA139
TTACAGAAGATGGCTGAATACTACCGGCCA
>MED12_LsgRNA140
TTACAGAAGATGGCTGAATACTACCGGCCA
>MED12_LsgRNA141
AAGGAGAAGATTGAAGGGACCCCTTGGGGTT
>MED12_LsgRNA142
AAGGAGAAGATTGAAGGGACCCCTTGGGGTT
>MED12_LsgRNA143
GATAAGAAGGGCTGCTGGCTCAATAGGGAC
>MED12_LsgRNA144
GATAAGAAGGGCTGCTGGCTCAATAGGGAC

>MED12_LsgRNA145
TCAAAGACCTGTGCCATCTGGTCCTGGTTG
>MED12_LsgRNA146
TCAAAGACCTGTGCCATCTGGTCCTGGTTG
>MED12_LsgRNA147
CTCTAGAGCGCTCTGGTGTATGGCTGGTGG
>MED12_LsgRNA148
CTCTAGAGCGCTCTGGTGTATGGCTGGTGG
>MED12_LsgRNA149
CTAGAGAGCTGTTGTTGAAGTTGCCGGACC
>MED12_LsgRNA150
CTAGAGAGCTGTTGTTGAAGTTGCCGGACC
>MED12_LsgRNA151
AGGGAGAGGGAGGCCGGGGACCAGGGGCTC
>MED12_LsgRNA152
AGGGAGAGGGAGGCCGGGGACCAGGGGCTC
>MED12_LsgRNA153
ATGTAGAGGTGGCAATCCGGCAGTGGGATT
>MED12_LsgRNA154
ATGTAGAGGTGGCAATCCGGCAGTGGGATT
>MED12_LsgRNA155
CTCTAGAGTGTTCGATCATGAACTCAGGTGC
>MED12_LsgRNA156
CTCTAGAGTGTTCGATCATGAACTCAGGTGC
>MED12_LsgRNA157
ACTCAGATCATCACCAAGTACTTATGGGAG
>MED12_LsgRNA158
ACTCAGATCATCACCAAGTACTTATGGGAG
>MED12_LsgRNA159
CCAGAGATCTGTACCTGGTGCACCTGGCTG
>MED12_LsgRNA160
CCAGAGATCTGTACCTGGTGCACCTGGCTG
>MED12_LsgRNA161
ACTTAGCAAAGATATCTTCAGCAGTGGGGA
>MED12_LsgRNA162
ACTTAGCAAAGATATCTTCAGCAGTGGGGA
>MED12_LsgRNA163
CAGCAGCAGCAGCAGCAGATCCTGCGGGTA
>MED12_LsgRNA164
CAGCAGCAGCAGCAGCAGATCCTGCGGGTA
>MED12_LsgRNA165
CAGCAGCAGCAGCAGTACCACATCCGGCAG
>MED12_LsgRNA166
CAGCAGCAGCAGCAGTACCACATCCGGCAG

>MED12_LsgRNA167
ACATAGCCACTGGGCCGCTGTTGCAGGTGG
>MED12_LsgRNA168
ACATAGCCACTGGGCCGCTGTTGCAGGTGG
>MED12_LsgRNA169
AGGCAGCCAGCAGGTGGCGGTCGCAGGAGG
>MED12_LsgRNA170
AGGCAGCCAGCAGGTGGCGGTCGCAGGAGG
>MED12_LsgRNA171
CTGTAGCCATTTAAAGAACAAATTTGGGGA
>MED12_LsgRNA172
CTGTAGCCATTTAAAGAACAAATTTGGGGA
>MED12_LsgRNA173
GAGCAGCCCCGGTTTGTTCAGTTTGGGGG
>MED12_LsgRNA174
GAGCAGCCCCGGTTTGTTCAGTTTGGGGG
>MED12_LsgRNA175
TTGAAGCCGTCAGCACCACTCTCTTGGGGC
>MED12_LsgRNA176
TTGAAGCCGTCAGCACCACTCTCTTGGGGC
>MED12_LsgRNA177
TCCAAGCCTTACTCGGAGAAGCAGAGGCAG
>MED12_LsgRNA178
TCCAAGCCTTACTCGGAGAAGCAGAGGCAG
>MED12_LsgRNA179
AACCAGCGTTGGTCGTACTGTTTGGGGTG
>MED12_LsgRNA180
AACCAGCGTTGGTCGTACTGTTTGGGGTG
>MED12_LsgRNA181
CAGCAGCTACCTGGGGCTGGGACTGGGGCT
>MED12_LsgRNA182
CAGCAGCTACCTGGGGCTGGGACTGGGGCT
>MED12_LsgRNA183
CTGCAGCTCACACCTTACCTACACGGGGC
>MED12_LsgRNA184
CTGCAGCTCACACCTTACCTACACGGGGC
>MED12_LsgRNA185
CAGGAGGAACAGAAGAACTTCCAGAGGAGG
>MED12_LsgRNA186
CAGGAGGAACAGAAGAACTTCCAGAGGAGG
>MED12_LsgRNA187
GAACAGGACTCTGAGCCAGGGGCCCGGCTT
>MED12_LsgRNA188
GAACAGGACTCTGAGCCAGGGGCCCGGCTT

>MED12_LsgRNA189
CTGCAGGAGGACATCCTGGAAAATGGGAGC
>MED12_LsgRNA190
CTGCAGGAGGACATCCTGGAAAATGGGAGC
>MED12_LsgRNA191
GGGTAGGATCTACAAGAGTAGGATTGGTAG
>MED12_LsgRNA192
GGGTAGGATCTACAAGAGTAGGATTGGTAG
>MED12_LsgRNA193
TGGCAGGATTGAAGCTGACGTTCTTGGCAC
>MED12_LsgRNA194
TGGCAGGATTGAAGCTGACGTTCTTGGCAC
>MED12_LsgRNA195
GTCCAGGCACTACTCACATTGTTAGGGGTC
>MED12_LsgRNA196
GTCCAGGCACTACTCACATTGTTAGGGGTC
>MED12_LsgRNA197
CTGAAGGCAGCAGCAGCAGCAAGCTGGAAG
>MED12_LsgRNA198
TAATAGGCGCGGGGCCGGGGCCTCAGGTGT
>MED12_LsgRNA199
TAATAGGCGCGGGGCCGGGGCCTCAGGTGT
>MED12_LsgRNA200
GAGCAGGCGGCTCCTCATCTTCTGGGGGCA
>MED12_LsgRNA201
GAGCAGGCGGCTCCTCATCTTCTGGGGGCA
>MED12_LsgRNA202
GGTAAGGCTGGCTGGAGTAGCTGGGGGGCA
>MED12_LsgRNA203
GGTAAGGCTGGCTGGAGTAGCTGGGGGGCA
>MED12_LsgRNA204
GCACAGGCTTGGTCTTGCTGCTGCTGGGCA
>MED12_LsgRNA205
GCACAGGCTTGGTCTTGCTGCTGCTGGGCA
>MED12_LsgRNA206
TGAAAGGGCAGGATGAACAACGCGAGGGAC
>MED12_LsgRNA207
TGAAAGGGCAGGATGAACAACGCGAGGGAC
>MED12_LsgRNA208
CTCCAGGTAATAGGCGCGGGGCCGGGGCCT
>MED12_LsgRNA209
CTCCAGGTAATAGGCGCGGGGCCGGGGCCT
>MED12_LsgRNA210
AAGCAGGTCACTAAAGGGAGTCGAGGGTGT

>MED12_LsgRNA211
AAGCAGGTCACTAAAGGGAGTCGAGGGTGT
>MED12_LsgRNA212
GTGTAGGTGAAGGTGTGAGCTGCAGGGTTC
>MED12_LsgRNA213
GTGTAGGTGAAGGTGTGAGCTGCAGGGTTC
>MED12_LsgRNA214
ACTGAGGTGGGCAGTTTAGCAATGAGGGGG
>MED12_LsgRNA215
TTTCAGTAAGAAGGAAGAGGTGTTTGGGTA
>MED12_LsgRNA216
TTTCAGTAAGAAGGAAGAGGTGTTTGGGTA
>MED12_LsgRNA217
CAAGAGTAGGATTGGTAGAAGGGTGGGTGC
>MED12_LsgRNA218
CAAGAGTAGGATTGGTAGAAGGGTGGGTGC
>MED12_LsgRNA219
CAGAAGTAGGCAAGCCGGCGGGACAGGTAT
>MED12_LsgRNA220
CAGAAGTAGGCAAGCCGGCGGGACAGGTAT
>MED12_LsgRNA221
CTGAAGTCAGAGCGTTCAAACTATGGCTG
>MED12_LsgRNA222
CTGAAGTCAGAGCGTTCAAACTATGGCTG
>MED12_LsgRNA223
CCTCAGTCCAGGGACATGTGTTAAAGGCTG
>MED12_LsgRNA224
CCTCAGTCCAGGGACATGTGTTAAAGGCTG
>MED12_LsgRNA225
GAACAGTCCGAGTGGACCGGCGAGTGGCTC
>MED12_LsgRNA226
GAACAGTCCGAGTGGACCGGCGAGTGGCTC
>MED12_LsgRNA227
TTGTAGTGAACAGGACTCTGAGCCAGGGGC
>MED12_LsgRNA228
TTGTAGTGAACAGGACTCTGAGCCAGGGGC
>MED12_LsgRNA229
TGAGAGTGCAAGTATACATGTTGTGGGAGA
>MED12_LsgRNA230
AATGAGTGCCAGGGCGTCCAGGCAGGCGT
>MED12_LsgRNA231
AATGAGTGCCAGGGCGTCCAGGCAGGCGT
>MED12_LsgRNA232
TCCTAGTGGCTGGCACTCACCTGCAGGTAG

>MED12_LsgRNA233
TCCTAGTGGCTGGCACTCACCTGCAGGTAG
>MED12_LsgRNA234
CAGAAGTTATCCTTCTGGTTCACCTGGGGC
>MED12_LsgRNA235
CAGAAGTTATCCTTCTGGTTCACCTGGGGC
>MED12_LsgRNA236
TGCTAGTTGGGGGCTGAGGAGCAGGGGTGG
>MED12_LsgRNA237
TGCTAGTTGGGGGCTGAGGAGCAGGGGTGG
>MED12_LsgRNA238
TTCAATAACCAGCCTGCTGTCTCTGGGGAT
>MED12_LsgRNA239
TTCAATAACCAGCCTGCTGTCTCTGGGGAT
>MED12_LsgRNA240
GATCATCAAAGGGAGAGGGAGGCCGGGGAC
>MED12_LsgRNA241
GATCATCAAAGGGAGAGGGAGGCCGGGGAC
>MED12_LsgRNA242
GTTCGATCACGTTCTTTGCGTGAAGAGGAAC
>MED12_LsgRNA243
GTTCGATCACGTTCTTTGCGTGAAGAGGAAC
>MED12_LsgRNA244
GAGAATCAGAAGCCGCAGATGAGAAGGGTT
>MED12_LsgRNA245
GAGAATCAGAAGCCGCAGATGAGAAGGGTT
>MED12_LsgRNA246
CCCAATCCAAAGATTTCGGTTACAAAGGGAG
>MED12_LsgRNA247
CCCAATCCAAAGATTTCGGTTACAAAGGGAG
>MED12_LsgRNA248
CTCCATCCACGATGCGGTTCTGGGAGGCAG
>MED12_LsgRNA249
TGCCATCCCTTCACTCCTTAATGCTGGTGA
>MED12_LsgRNA250
TGCCATCCCTTCACTCCTTAATGCTGGTGA
>MED12_LsgRNA251
TTCTATCCGACCTGAGCACAGGCTTGGTCT
>MED12_LsgRNA252
TTCTATCCGACCTGAGCACAGGCTTGGTCT
>MED12_LsgRNA253
GGACATCCTGGAAAATGGGAGCACTGGGAG
>MED12_LsgRNA254
GGACATCCTGGAAAATGGGAGCACTGGGAG

>MED12_LsgRNA255
CCTCATCGACTTTGCCATTTCAGGTGGGGAA
>MED12_LsgRNA256
CCTCATCGACTTTGCCATTTCAGGTGGGGAA
>MED12_LsgRNA257
AGCCATCGGAATCAAATATGCGCTGGGCAC
>MED12_LsgRNA258
AGCCATCGGAATCAAATATGCGCTGGGCAC
>MED12_LsgRNA259
CGTGATGACATCTCGGGTCTGCTTGGGCAG
>MED12_LsgRNA260
CGTGATGACATCTCGGGTCTGCTTGGGCAG
>MED12_LsgRNA261
ACCCATGACGCCAGTCATGGTTGTGGGCAG
>MED12_LsgRNA262
ACCCATGACGCCAGTCATGGTTGTGGGCAG
>MED12_LsgRNA263
TACCATGACTCCAATGAGTGCCCAGGGCGT
>MED12_LsgRNA264
TACCATGACTCCAATGAGTGCCCAGGGCGT
>MED12_LsgRNA265
TCAGATGACTCCCAGCTCTTCCTACGGTTT
>MED12_LsgRNA266
TCAGATGACTCCCAGCTCTTCCTACGGTTT
>MED12_LsgRNA267
GGACATGCTGAGCGTGCTCATCAATGGGAC
>MED12_LsgRNA268
GGACATGCTGAGCGTGCTCATCAATGGGAC
>MED12_LsgRNA269
GGACATGGACTGACCTCCACTCAAAGGTAC
>MED12_LsgRNA270
GGACATGGACTGACCTCCACTCAAAGGTAC
>MED12_LsgRNA271
GAAGATGGCTGAATACTACCGGCCAGGGCC
>MED12_LsgRNA272
GAAGATGGCTGAATACTACCGGCCAGGGCC
>MED12_LsgRNA273
ACTTATGGGAGCAGTTACAGAAGATGGCTG
>MED12_LsgRNA274
ACTTATGGGAGCAGTTACAGAAGATGGCTG
>MED12_LsgRNA275
CATCATGGGGCAAGGGCCCTATCGTGGAAC
>MED12_LsgRNA276
CATCATGGGGCAAGGGCCCTATCGTGGAAC

>MED12_LsgRNA277
AGTCATGGTTGTGGGCAGCACTCCAGGGTA
>MED12_LsgRNA278
AGTCATGGTTGTGGGCAGCACTCCAGGGTA
>MED12_LsgRNA279
GCGGATTCCTACTGTAGGCTTGTCTGGGGA
>MED12_LsgRNA280
GCGGATTCCTACTGTAGGCTTGTCTGGGGA
>MED12_LsgRNA281
CAGGATTGAACTTACTGAGAAATCAGGCTT
>MED12_LsgRNA282
CAGGATTGAACTTACTGAGAAATCAGGCTT
>MED12_LsgRNA283
CCGGATTGCCACCTCTACATCATGGGGCAA
>MED12_LsgRNA284
CCGGATTGCCACCTCTACATCATGGGGCAA
>MED12_LsgRNA285
AAGAATTGGAGAAGGGTCAGCACCTGGGTT
>MED12_LsgRNA286
AAGAATTGGAGAAGGGTCAGCACCTGGGTT
>MED12_LsgRNA287
CCACCAAACAGAAGATCTCGCCCTGGGATC
>MED12_LsgRNA288
TCCTCAAAGAGAACACTGGAACTAGGGTCA
>MED12_LsgRNA289
TCCTCAAAGAGAACACTGGAACTAGGGTCA
>MED12_LsgRNA290
TTAGCAAAGATATCTTCAGCAGTGGGGAAG
>MED12_LsgRNA291
CAGACAAAGCTGTAGCGGTTAGCAGGGTTC
>MED12_LsgRNA292
CAGACAAAGCTGTAGCGGTTAGCAGGGTTC
>MED12_LsgRNA293
TCCTCAACCAGGACCAGATGGCACAGGTCT
>MED12_LsgRNA294
TCCTCAACCAGGACCAGATGGCACAGGTCT
>MED12_LsgRNA295
GCTTCAACCCCTCAAAAAGATCCCAGGGCG
>MED12_LsgRNA296
TCTCCAAGAGGGAGTTCATCTCCTGGGGAG
>MED12_LsgRNA297
TCTCCAAGAGGGAGTTCATCTCCTGGGGAG
>MED12_LsgRNA298
TCTACAAGAGTAGGATTGGTAGAAGGGTGG

>MED12_LsgRNA299
TCTACAAGAGTAGGATTGGTAGAAGGGTGG
>MED12_LsgRNA300
AAAACAAGCGTGCATACATGAACCTGGCGA
>MED12_LsgRNA301
AAAACAAGCGTGCATACATGAACCTGGCGA
>MED12_LsgRNA302
TGCCCACAACCATGACTGGCGTCATGGGTT
>MED12_LsgRNA303
TGCCCACAACCATGACTGGCGTCATGGGTT
>MED12_LsgRNA304
GGTACACAGAGGTCTTATAAGAGGAGGGTT
>MED12_LsgRNA305
GGTACACAGAGGTCTTATAAGAGGAGGGTT
>MED12_LsgRNA306
AGGGCACATAAGCAGGTCACTAAAGGGAGT
>MED12_LsgRNA307
AGGGCACATAAGCAGGTCACTAAAGGGAGT
>MED12_LsgRNA308
TTAACACATGTCCCTGGACTGAGGTGGGCA
>MED12_LsgRNA309
ATGACACCACAGCATCATCATCTGAGGAGA
>MED12_LsgRNA310
ATGACACCACAGCATCATCATCTGAGGAGA
>MED12_LsgRNA311
TGTGCACCAGCAGGCCCCACCTATGGACA
>MED12_LsgRNA312
TGTGCACCAGCAGGCCCCACCTATGGACA
>MED12_LsgRNA313
CCCCCACCCAAGGAGAAGATTGAAGGGACC
>MED12_LsgRNA314
CCCCCACCCAAGGAGAAGATTGAAGGGACC
>MED12_LsgRNA315
GCAGCACCAGCAGACCACGGAGTGGGCCA
>MED12_LsgRNA316
GCAGCACCAGCAGACCACGGAGTGGGCCA
>MED12_LsgRNA317
CCGCCACCTGCAACAGCGGCCAGTGGCTA
>MED12_LsgRNA318
CCGCCACCTGCAACAGCGGCCAGTGGCTA
>MED12_LsgRNA319
GCAGCACTCCAGGGTAAGTTGGTCGGGTGG
>MED12_LsgRNA320
GCAGCACTCCAGGGTAAGTTGGTCGGGTGG

>MED12_LsgRNA321
TAGCCACTGGGCCGCTGTTGCAGGTGGCGG
>MED12_LsgRNA322
TAGCCACTGGGCCGCTGTTGCAGGTGGCGG
>MED12_LsgRNA323
CCCCACTTCCTGCAGGCCCTGGCCGGTAG
>MED12_LsgRNA324
CCCCACTTCCTGCAGGCCCTGGCCGGTAG
>MED12_LsgRNA325
CACCCAGAACCAGCCACTACCTGCAGGTGA
>MED12_LsgRNA326
GGTTCAGAACCTTCAAGATATCCTTGGTGA
>MED12_LsgRNA327
GGTTCAGAACCTTCAAGATATCCTTGGTGA
>MED12_LsgRNA328
CTGGCAGAGTTGTCTCACCTTGGCAGGATT
>MED12_LsgRNA329
CTGGCAGAGTTGTCTCACCTTGGCAGGATT
>MED12_LsgRNA330
GGAGCAGATCACGAGCTTTGCCCTTGGCAT
>MED12_LsgRNA331
GGAGCAGATCACGAGCTTTGCCCTTGGCAT
>MED12_LsgRNA332
GGACCAGATGGCACAGGTCTTTGAGGGGTA
>MED12_LsgRNA333
GGACCAGATGGCACAGGTCTTTGAGGGGTA
>MED12_LsgRNA334
ATTGCAGCAACACACAGGCCCTGCAGGTAC
>MED12_LsgRNA335
ATTGCAGCAACACACAGGCCCTGCAGGTAC
>MED12_LsgRNA336
GCAGCAGCAACCTGCGGTGCCCCAAGGACA
>MED12_LsgRNA337
GCAGCAGCAACCTGCGGTGCCCCAAGGACA
>MED12_LsgRNA338
CCGTCAGCACTCTCTTGGGGCTGGTTT
>MED12_LsgRNA339
CCGTCAGCACTCTCTTGGGGCTGGTTT
>MED12_LsgRNA340
CAGCCAGCAGGTGGCGGTTCGAGGAGGAGC
>MED12_LsgRNA341
CAGCCAGCAGGTGGCGGTTCGAGGAGGAGC
>MED12_LsgRNA342
AGGACAGCCACGATGCACAGGCACAGGCTA

>MED12_LsgRNA343
AGGACAGCCACGATGCACAGGCACAGGCTA
>MED12_LsgRNA344
GCCACAGCCCAGTACCAACATATTTGGACG
>MED12_LsgRNA345
GCCACAGCCCAGTACCAACATATTTGGACG
>MED12_LsgRNA346
CCAGCAGCCTTTAACACATGTCCCTGGACT
>MED12_LsgRNA347
CCAGCAGCCTTTAACACATGTCCCTGGACT
>MED12_LsgRNA348
TGCCCAGCGCATATTTGATTCCGATGGCTC
>MED12_LsgRNA349
TGCCCAGCGCATATTTGATTCCGATGGCTC
>MED12_LsgRNA350
CAACCAGCGGTTGGTCGTACTGTTTGGGGT
>MED12_LsgRNA351
CAACCAGCGGTTGGTCGTACTGTTTGGGGT
>MED12_LsgRNA352
CCAGCAGCTACCTGGGGCTGGGACTGGGGC
>MED12_LsgRNA353
CCAGCAGCTACCTGGGGCTGGGACTGGGGC
>MED12_LsgRNA354
TTGTCAGCTTCCTCAGGAATGGGTAGGAGA
>MED12_LsgRNA355
TTGTCAGCTTCCTCAGGAATGGGTAGGAGA
>MED12_LsgRNA356
CACACAGGACTATGGAATGGGCCCGGGTTCG
>MED12_LsgRNA357
CACACAGGACTATGGAATGGGCCCGGGTTCG
>MED12_LsgRNA358
ACTGCAGGAGGACATCCTGGAAAATGGGAG
>MED12_LsgRNA359
ACTGCAGGAGGACATCCTGGAAAATGGGAG
>MED12_LsgRNA360
GGTCCAGGCACTACTCACATTGTTAGGGGT
>MED12_LsgRNA361
GGTCCAGGCACTACTCACATTGTTAGGGGT
>MED12_LsgRNA362
CCAGCAGGCCCCACCTATGGACATGGACT
>MED12_LsgRNA363
CCAGCAGGCCCCACCTATGGACATGGACT
>MED12_LsgRNA364
GGAGCAGGCGGCTCCTCATCTTCTGGGGGC

>MED12_LsgRNA365
GGAGCAGGCGGCTCCTCATCTTCTGGGGGC
>MED12_LsgRNA366
GAACCAGGGTTTGGGTGGTGCAGGAGGTCC
>MED12_LsgRNA367
GAACCAGGGTTTGGGTGGTGCAGGAGGTCC
>MED12_LsgRNA368
GCTCCAGGTAATAGGCGCGGGGCCGGGGCC
>MED12_LsgRNA369
GCTCCAGGTAATAGGCGCGGGGCCGGGGCC
>MED12_LsgRNA370
TGCTCAGGTAGGATGGCTGTTGAACGGACG
>MED12_LsgRNA371
TGCTCAGGTAGGATGGCTGTTGAACGGACG
>MED12_LsgRNA372
TAAGCAGGTCACTAAAGGGAGTCGAGGGTG
>MED12_LsgRNA373
TAAGCAGGTCACTAAAGGGAGTCGAGGGTG
>MED12_LsgRNA374
CACTCAGTACACCCCATACCTATCGGGATC
>MED12_LsgRNA375
CACTCAGTACACCCCATACCTATCGGGATC
>MED12_LsgRNA376
AGGTCAGTCCATGTCCATAGGTGGGGCCT
>MED12_LsgRNA377
AGGTCAGTCCATGTCCATAGGTGGGGCCT
>MED12_LsgRNA378
GGGCCAGTCTCCGTGTACAGAAGTAGGCAA
>MED12_LsgRNA379
GGCCCAGTGGCTATGTGCACCAGCAGGCCC
>MED12_LsgRNA380
GGCCCAGTGGCTATGTGCACCAGCAGGCCC
>MED12_LsgRNA381
GTTCCAGTGTTCTCTTTGAGGACATGGAGA
>MED12_LsgRNA382
GTTCCAGTGTTCTCTTTGAGGACATGGAGA
>MED12_LsgRNA383
CCACCAGTTTCTGCTGTCCCTTTGCGGTTC
>MED12_LsgRNA384
CCACCAGTTTCTGCTGTCCCTTTGCGGTTC
>MED12_LsgRNA385
ACACCATAAGGGCCGCTCCGACCCGGGCCC
>MED12_LsgRNA386
ACACCATAAGGGCCGCTCCGACCCGGGCCC

>MED12_LsgRNA387
GGATCATCAAAGGGAGAGGGAGGCCGGGGA
>MED12_LsgRNA388
GGATCATCAAAGGGAGAGGGAGGCCGGGGA
>MED12_LsgRNA389
CCCGCATCACAGGCACTGTGTATTTGGCTA
>MED12_LsgRNA390
CCCGCATCACAGGCACTGTGTATTTGGCTA
>MED12_LsgRNA391
ACAGCATCATCATCTGAGGAGATCTGGAGA
>MED12_LsgRNA392
ACAGCATCATCATCTGAGGAGATCTGGAGA
>MED12_LsgRNA393
TGCTCATCCCCAGAGACAGCAGGCTGGTTA
>MED12_LsgRNA394
TGCTCATCCCCAGAGACAGCAGGCTGGTTA
>MED12_LsgRNA395
GCCTCATCGACTTTGCCATTCAGGTGGGGA
>MED12_LsgRNA396
GCCTCATCGACTTTGCCATTCAGGTGGGGA
>MED12_LsgRNA397
GAGCCATCGGAATCAAATATGCGCTGGGCA
>MED12_LsgRNA398
GAGCCATCGGAATCAAATATGCGCTGGGCA
>MED12_LsgRNA399
GAAACATGAACATGGCCAGCTTCTCGGTGT
>MED12_LsgRNA400
GAAACATGAACATGGCCAGCTTCTCGGTGT
>MED12_LsgRNA401
AACCCATGACGCCAGTCATGGTTGTGGGCA
>MED12_LsgRNA402
AACCCATGACGCCAGTCATGGTTGTGGGCA
>MED12_LsgRNA403
GTACCATGACTCCAATGAGTGCCCAGGGCG
>MED12_LsgRNA404
GTACCATGACTCCAATGAGTGCCCAGGGCG
>MED12_LsgRNA405
TGCACATGCTGCACCAGAGGCAAGTGGTAT
>MED12_LsgRNA406
TGCACATGCTGCACCAGAGGCAAGTGGTAT
>MED12_LsgRNA407
GAAGCATGGGATGAACCGGTCCGATGGCTC
>MED12_LsgRNA408
TTGGCATGTCATAACCACTTGCCCTCTGGTGC

>MED12_LsgRNA409
TTGGCATGTCATACCACTTGCCCTCTGGTGC
>MED12_LsgRNA410
TCTCCATGTCCTCAAAGAGAACTGGAAC
>MED12_LsgRNA411
TCTCCATGTCCTCAAAGAGAACTGGAAC
>MED12_LsgRNA412
AGGGCATTGCAGACAAAGCTGTAGCGGTTA
>MED12_LsgRNA413
AGGGCATTGCAGACAAAGCTGTAGCGGTTA
>MED12_LsgRNA414
TCCACCAAACAGAAGATCTCGCCCTGGGAT
>MED12_LsgRNA415
ACGACCAACCGCTGGTTGCACTCATGGCTG
>MED12_LsgRNA416
ACGACCAACCGCTGGTTGCACTCATGGCTG
>MED12_LsgRNA417
TTCTCCAAGAGGGAGTTCATCTCCTGGGGA
>MED12_LsgRNA418
TTCTCCAAGAGGGAGTTCATCTCCTGGGGA
>MED12_LsgRNA419
TGAACCAAGTGTTAATGGCACTCTGGGATC
>MED12_LsgRNA420
TGAACCAAGTGTTAATGGCACTCTGGGATC
>MED12_LsgRNA421
GGAACCACAGCCCCACTTCCTGCAGGCC
>MED12_LsgRNA422
GGAACCACAGCCCCACTTCCTGCAGGCC
>MED12_LsgRNA423
GCCCCACCCAAGGAGAAGATTGAAGGGAC
>MED12_LsgRNA424
GCCCCACCCAAGGAGAAGATTGAAGGGAC
>MED12_LsgRNA425
ATTTCCACCCAGTTCCAGCGCCAGGGGCTT
>MED12_LsgRNA426
ATTTCCACCCAGTTCCAGCGCCAGGGGCTT
>MED12_LsgRNA427
ACTGCCACCTCCTCCCTCCTCCTGGAAG
>MED12_LsgRNA428
ACTGCCACCTCCTCCCTCCTCCTGGAAG
>MED12_LsgRNA429
AGCACCCTCTCTTGGGGCTGGTTTGAAC
>MED12_LsgRNA430
AGCACCCTCTCTTGGGGCTGGTTTGAAC

>MED12_LsgRNA431
TGAACCAGAAGGATAACTTCTGGCTGGTGA
>MED12_LsgRNA432
TGAACCAGAAGGATAACTTCTGGCTGGTGA
>MED12_LsgRNA433
AGGACCAGATGGCACAGGTCTTTGAGGGGT
>MED12_LsgRNA434
AGGACCAGATGGCACAGGTCTTTGAGGGGT
>MED12_LsgRNA435
AACACCAGCAGCAACAGCAGCAACAGGCGG
>MED12_LsgRNA436
AACACCAGCAGCAACAGCAGCAACAGGCGG
>MED12_LsgRNA437
TGAGCCAGCAGCCCTTCTTATCGCTGGTGC
>MED12_LsgRNA438
TGAGCCAGCAGCCCTTCTTATCGCTGGTGC
>MED12_LsgRNA439
GTCACCAGCCAGAAGTTATCCTTCTGGTTC
>MED12_LsgRNA440
GTCACCAGCCAGAAGTTATCCTTCTGGTTC
>MED12_LsgRNA441
GCAGCCAGCCAGCTACCAAGACAGAGGTGA
>MED12_LsgRNA442
GCAGCCAGCCAGCTACCAAGACAGAGGTGA
>MED12_LsgRNA443
AGCACCAGCGATAAGAAGGGCTGCTGGCTC
>MED12_LsgRNA444
AGCACCAGCGATAAGAAGGGCTGCTGGCTC
>MED12_LsgRNA445
CTCCCCAGGAGATGAACTCCCTCTTGGAGA
>MED12_LsgRNA446
CTCCCCAGGAGATGAACTCCCTCTTGGAGA
>MED12_LsgRNA447
GTCTCCAGGATTCAGAGGCACAATAGGAGC
>MED12_LsgRNA448
GTCTCCAGGATTCAGAGGCACAATAGGAGC
>MED12_LsgRNA449
CCGGCCAGGGCCTGCAGGAAGTGGGGGCTG
>MED12_LsgRNA450
CCGGCCAGGGCCTGCAGGAAGTGGGGGCTG
>MED12_LsgRNA451
GATCCCAGGGCGAGATCTTCTGTTTGGTGG
>MED12_LsgRNA452
GATCCCAGGGCGAGATCTTCTGTTTGGTGG

>MED12_LsgRNA453
CACTCCAGGGTAAGTTGGTCCGGTGGGCAG
>MED12_LsgRNA454
CACTCCAGGGTAAGTTGGTCCGGTGGGCAG
>MED12_LsgRNA455
GGCTCCAGGTAATAGGCGCGGGGCCGGGGC
>MED12_LsgRNA456
GGCTCCAGGTAATAGGCGCGGGGCCGGGGC
>MED12_LsgRNA457
AGCGCCAGTCAGACAGTCTGGAAAAGGTTC
>MED12_LsgRNA458
AGCGCCAGTCAGACAGTCTGGAAAAGGTTC
>MED12_LsgRNA459
CACACCATAAGGGCCGCTCCGACCCGGGCC
>MED12_LsgRNA460
CACACCATAAGGGCCGCTCCGACCCGGGCC
>MED12_LsgRNA461
GTAGCCATTTAAAGAACAAATTTGGGGAGC
>MED12_LsgRNA462
GTAGCCATTTAAAGAACAAATTTGGGGAGC
>MED12_LsgRNA463
GCTGCCACCCGACCAACTTACCCTGGAGT
>MED12_LsgRNA464
GCTGCCACCCGACCAACTTACCCTGGAGT
>MED12_LsgRNA465
CGATCCCAGAGTGCCATTAACACTTGGTTC
>MED12_LsgRNA466
CGATCCCAGAGTGCCATTAACACTTGGTTC
>MED12_LsgRNA467
AGGCCCCAGCCGCGCCGCTTCAGGGGCCG
>MED12_LsgRNA468
AGGCCCCAGCCGCGCCGCTTCAGGGGCCG
>MED12_LsgRNA469
AAGACCCAGTGTGAGTAGTGCCAGGCGC
>MED12_LsgRNA470
AAGACCCAGTGTGAGTAGTGCCAGGCGC
>MED12_LsgRNA471
AGCCCCCAAACACTGACAAACCGGGGGCTG
>MED12_LsgRNA472
AGCCCCCAAACACTGACAAACCGGGGGCTG
>MED12_LsgRNA473
AGCTCCCCAAATTTGTTCTTTAAATGGCTA
>MED12_LsgRNA474
AGCTCCCCAAATTTGTTCTTTAAATGGCTA

>MED12_LsgRNA475
ATCTCCCAACTTCCCCACCTGAATGGCAA
>MED12_LsgRNA476
ATCTCCCAACTTCCCCACCTGAATGGCAA
>MED12_LsgRNA477
CCAGCCCCAAGAGAGTGGTGCTGACGGCTT
>MED12_LsgRNA478
CCAGCCCCAAGAGAGTGGTGCTGACGGCTT
>MED12_LsgRNA479
GGTGCCCCACACAGACGTGCATAAGGGCAT
>MED12_LsgRNA480
GGTGCCCCACACAGACGTGCATAAGGGCAT
>MED12_LsgRNA481
GAGGCCCCAGCCGCGGCCGCTTCAGGGGCC
>MED12_LsgRNA482
GAGGCCCCAGCCGCGGCCGCTTCAGGGGCC
>MED12_LsgRNA483
TACACCCCATACCTATCGGGATCATGGTGC
>MED12_LsgRNA484
TACACCCCATACCTATCGGGATCATGGTGC
>MED12_LsgRNA485
GAGCCCCCAAACACTGACAAACCGGGGGCT
>MED12_LsgRNA486
GAGCCCCCAAACACTGACAAACCGGGGGCT
>MED12_LsgRNA487
ACAGCCCCCACTTCCTGCAGGCCCTGGCCG
>MED12_LsgRNA488
ACAGCCCCCACTTCCTGCAGGCCCTGGCCG
>MED12_LsgRNA489
AGAGCCCCCAAACACTGACAAACCGGGGGC
>MED12_LsgRNA490
AGAGCCCCCAAACACTGACAAACCGGGGGC
>MED12_LsgRNA491
TTCTCCCCTACTATGCCCTGTGAGGGGAAG
>MED12_LsgRNA492
CCTTCCCCTCACAGGGCATAGTAGGGGAGA
>MED12_LsgRNA493
CCTTCCCCTCACAGGGCATAGTAGGGGAGA
>MED12_LsgRNA494
CCGGCCCCTGAAGCGGCCGCGGCTGGGGCC
>MED12_LsgRNA495
CCGGCCCCTGAAGCGGCCGCGGCTGGGGCC
>MED12_LsgRNA496
TCCACCCGCTCACTCTCACTTCGAGGGTCC

>MED12_LsgRNA497
TCCACCCGCTCACTCTCACTTCGAGGGTCC
>MED12_LsgRNA498
CCCACCCGTGAACCACAGGGGATGCGGAAC
>MED12_LsgRNA499
CCCACCCGTGAACCACAGGGGATGCGGAAC
>MED12_LsgRNA500
TTTACCCTCAGGACCCCAAACAGAAGGAGG
>MED12_LsgRNA501
TTTACCCTCAGGACCCCAAACAGAAGGAGG
>MED12_LsgRNA502
CGGACCCTCGAAGTGAGAGTGAGCGGGTGG
>MED12_LsgRNA503
CGGACCCTCGAAGTGAGAGTGAGCGGGTGG
>MED12_LsgRNA504
CGGCCCTGAAGCGGCCGCGGCTGGGGCCT
>MED12_LsgRNA505
CGGCCCTGAAGCGGCCGCGGCTGGGGCCT
>MED12_LsgRNA506
AATACCCTTCCTGACACTGGTCGCAGGAAG
>MED12_LsgRNA507
AATACCCTTCCTGACACTGGTCGCAGGAAG
>MED12_LsgRNA508
GGCCCCGGCCCCGCGCCTATTACCTGGAGC
>MED12_LsgRNA509
GGCCCCGGCCCCGCGCCTATTACCTGGAGC
>MED12_LsgRNA510
TGGACCGGCGAGTGGCTCGAGGAGAGGAGC
>MED12_LsgRNA511
TGGACCGGCGAGTGGCTCGAGGAGAGGAGC
>MED12_LsgRNA512
GAGGCCGGGGACCAGGGGCTCCAAAGGCAA
>MED12_LsgRNA513
GAGGCCGGGGACCAGGGGCTCCAAAGGCAA
>MED12_LsgRNA514
GGGCCCGGGTCGGAGCGGCCCTTATGGTGT
>MED12_LsgRNA515
GGGCCCGGGTCGGAGCGGCCCTTATGGTGT
>MED12_LsgRNA516
GAAGCCGTCAGCACCACTCTCTTGGGGCTG
>MED12_LsgRNA517
GAAGCCGTCAGCACCACTCTCTTGGGGCTG
>MED12_LsgRNA518
GGTACCTAAGAATGTCAGGTCTCCAGGATT

>MED12_LsgRNA519
GGTACCTAAGAATGTCAGGTCTCCAGGATT
>MED12_LsgRNA520
TGCTCCTATTGTGCCTCTGAATCCTGGAGA
>MED12_LsgRNA521
TGCTCCTATTGTGCCTCTGAATCCTGGAGA
>MED12_LsgRNA522
TACCCCTCAAAGACCTGTGCCATCTGGTCC
>MED12_LsgRNA523
TACCCCTCAAAGACCTGTGCCATCTGGTCC
>MED12_LsgRNA524
GTGGCCTCATCGACTTTGCCATTCAGGTGG
>MED12_LsgRNA525
GTGGCCTCATCGACTTTGCCATTCAGGTGG
>MED12_LsgRNA526
CCTCCCTCTACAGCCAGGTGCACCAGGTAC
>MED12_LsgRNA527
CCTCCCTCTACAGCCAGGTGCACCAGGTAC
>MED12_LsgRNA528
TGCTCCTCTCCTCGAGCCACTCGCCGGTCC
>MED12_LsgRNA529
CTCACCTCTGTCTTGGTAGCTGGCTGGCTG
>MED12_LsgRNA530
CTCACCTCTGTCTTGGTAGCTGGCTGGCTG
>MED12_LsgRNA531
CCCACCTGAATGGCAAAGTCGATGAGGCCA
>MED12_LsgRNA532
CCCACCTGAATGGCAAAGTCGATGAGGCCA
>MED12_LsgRNA533
AGGGCCTGCAGGAAGTGGGGCTGTGGTTC
>MED12_LsgRNA534
AGGGCCTGCAGGAAGTGGGGCTGTGGTTC
>MED12_LsgRNA535
CTTTCCTGCCTCAGGATGAACTGACGGCCT
>MED12_LsgRNA536
CTTTCCTGCCTCAGGATGAACTGACGGCCT
>MED12_LsgRNA537
GCTTCCTGCGACCAGTGTGTCAGGAAGGGTAT
>MED12_LsgRNA538
GCTTCCTGCGACCAGTGTGTCAGGAAGGGTAT
>MED12_LsgRNA539
CTACCCTGCTAGAGCCTGAGAAAAAGGCTC
>MED12_LsgRNA540
CTACCCTGCTAGAGCCTGAGAAAAAGGCTC

>MED12_LsgRNA541
GAATCCTGGAGACCTGACATTCTTAGGTAC
>MED12_LsgRNA542
GAATCCTGGAGACCTGACATTCTTAGGTAC
>MED12_LsgRNA543
TGCACCTGGCTGTAGAGGGAGGTAAGGAGT
>MED12_LsgRNA544
TGCACCTGGCTGTAGAGGGAGGTAAGGAGT
>MED12_LsgRNA545
TGCGCCTGGGCACTACTCAAACTGGGTCT
>MED12_LsgRNA546
TGCGCCTGGGCACTACTCAAACTGGGTCT
>MED12_LsgRNA547
TGTACCTGGTGCACCTGGCTGTAGAGGGAG
>MED12_LsgRNA548
TGTACCTGGTGCACCTGGCTGTAGAGGGAG
>MED12_LsgRNA549
TCTTCCTGTGCCTGCAGAAGGAGTTGGGGG
>MED12_LsgRNA550
TCTTCCTGTGCCTGCAGAAGGAGTTGGGGG
>MED12_LsgRNA551
TCCTCCTGTGCTGTCCTAGTGCCTTGTTTT
>MED12_LsgRNA552
TCCTCCTGTGCTGTCCTAGTGCCTTGTTTT
>MED12_LsgRNA553
GCCGCCTGTTGCTGCTGTTGCTGCTGGTGT
>MED12_LsgRNA554
GCCGCCTGTTGCTGCTGTTGCTGCTGGTGT
>MED12_LsgRNA555
GACTCCTTACCTCCCTCTACAGCCAGGTGC
>MED12_LsgRNA556
TCCTCCTTAGGCTTCACCATTGGACGGGTA
>MED12_LsgRNA557
TCCTCCTTAGGCTTCACCATTGGACGGGTA
>MED12_LsgRNA558
GGTCCCTTCAATCTTCTCCTTGGGTGGGGG
>MED12_LsgRNA559
GGTCCCTTCAATCTTCTCCTTGGGTGGGGG
>MED12_LsgRNA560
GCTGCCTTCAGCCTCCTTGTGCTCTGGGTC
>MED12_LsgRNA561
GCTGCCTTCAGCCTCCTTGTGCTCTGGGTC
>MED12_LsgRNA562
ACCTCCTTCTGTTTGGGGTCCTGAGGGTAA

>MED12_LsgRNA563
ACCTCCTTCTGTTTGGGGTCCTGAGGGTAA
>MED12_LsgRNA564
GTGGCCTTGGCGATGTTCTCCAAGAGGGAG
>MED12_LsgRNA565
GTGGCCTTGGCGATGTTCTCCAAGAGGGAG
>MED12_LsgRNA566
CTTGCCTTTGGAGCCCCTGGTCCCCGGCCT
>MED12_LsgRNA567
TTTTCGAACGCACCTCCTTCTGTTTGGGGT
>MED12_LsgRNA568
TTTTCGAACGCACCTCCTTCTGTTTGGGGT
>MED12_LsgRNA569
ACATCGACTGCTGGACAATGAGGATGGGGA
>MED12_LsgRNA570
ACATCGACTGCTGGACAATGAGGATGGGGA
>MED12_LsgRNA571
AGATCGAGCAGCAGATCAAGGAGCGGGGAC
>MED12_LsgRNA572
AGATCGAGCAGCAGATCAAGGAGCGGGGAC
>MED12_LsgRNA573
GAGTCGAGGGTGTGCTGCTAGTTGGGGGCT
>MED12_LsgRNA574
TGCTCGATCTCCCGCAACTTTGCACGGACC
>MED12_LsgRNA575
TGCTCGATCTCCCGCAACTTTGCACGGACC
>MED12_LsgRNA576
GCTTCGATTCCATCTTCAAGAAGGAGGCAT
>MED12_LsgRNA577
GCTTCGATTCCATCTTCAAGAAGGAGGCAT
>MED12_LsgRNA578
GAACCGCAAAGGGACAGCAGAACTGGTGG
>MED12_LsgRNA579
GAACCGCAAAGGGACAGCAGAACTGGTGG
>MED12_LsgRNA580
GGAACGCAAGAAGAAGTCCACCAAGGGCAA
>MED12_LsgRNA581
GGAACGCAAGAAGAAGTCCACCAAGGGCAA
>MED12_LsgRNA582
TCATCGCTCGGCAGTGTGCTCCTGGAAG
>MED12_LsgRNA583
TCATCGCTCGGCAGTGTGCTCCTGGAAG
>MED12_LsgRNA584
GTGCCGCTGATGATGATCTCCAGGAGGAGC

>MED12_LsgRNA585
GTGCCGCTGATGATGATCTCCAGGAGGAGC
>MED12_LsgRNA586
AAGGCGCTGTCCTTGGGGCACCGCAGGTTG
>MED12_LsgRNA587
AAGGCGCTGTCCTTGGGGCACCGCAGGTTG
>MED12_LsgRNA588
GGGCCGCTGTTGCAGGTGGCGGGTAGGATC
>MED12_LsgRNA589
GGGCCGCTGTTGCAGGTGGCGGGTAGGATC
>MED12_LsgRNA590
AATGCGCTTTATGCGCTGCCGCTGGGGGTT
>MED12_LsgRNA591
AATGCGCTTTATGCGCTGCCGCTGGGGGTT
>MED12_LsgRNA592
GATGCGGCAGGTAAGCCGGGCCCTGGCTC
>MED12_LsgRNA593
CTACCGGCCAGGGCCTGCAGGAAGTGGGGG
>MED12_LsgRNA594
CTACCGGCCAGGGCCTGCAGGAAGTGGGGG
>MED12_LsgRNA595
GTGGCGGGTAGGATCTACAAGAGTAGGATT
>MED12_LsgRNA596
GTGGCGGGTAGGATCTACAAGAGTAGGATT
>MED12_LsgRNA597
TGGTCGGGTGGGCAGCTTCTGCATTGGTAA
>MED12_LsgRNA598
TGGTCGGGTGGGCAGCTTCTGCATTGGTAA
>MED12_LsgRNA599
GTGGCGTACTGCACGTGTCGTGGCTGGTTCG
>MED12_LsgRNA600
GTGGCGTACTGCACGTGTCGTGGCTGGTTCG
>MED12_LsgRNA601
AGAACGTCAGCTTCAATCCTGCCAAGGTGA
>MED12_LsgRNA602
AGAACGTCAGCTTCAATCCTGCCAAGGTGA
>MED12_LsgRNA603
GTAGCGTCCAAATATGTTGGTACTGGGCTG
>MED12_LsgRNA604
GTAGCGTCCAAATATGTTGGTACTGGGCTG
>MED12_LsgRNA605
TGAGCGTGCTCATCAATGGGACATTGGCTG
>MED12_LsgRNA606
GATCCTACCGCCACCTGCAACAGCGGCC

>MED12_LsgRNA607
GATCCTACCCGCCACCTGCAACAGCGGCC
>MED12_LsgRNA608
GGCGCTACGGGCTGGGCAAGATGGCGGCCT
>MED12_LsgRNA609
GGCGCTACGGGCTGGGCAAGATGGCGGCCT
>MED12_LsgRNA610
CTTCCTACGGTTTGCAGACTTCCCAGGTAA
>MED12_LsgRNA611
CTTCCTACGGTTTGCAGACTTCCCAGGTAA
>MED12_LsgRNA612
CCATCTACTGCAACGTGGAGCCATCGGAAT
>MED12_LsgRNA613
CCATCTACTGCAACGTGGAGCCATCGGAAT
>MED12_LsgRNA614
ACCACTACTTTGGGTACCTTTGAGTGGAGG
>MED12_LsgRNA615
ACCACTACTTTGGGTACCTTTGAGTGGAGG
>MED12_LsgRNA616
GCTGCTAGTTGGGGGCTGAGGAGCAGGGGT
>MED12_LsgRNA617
GCTGCTAGTTGGGGGCTGAGGAGCAGGGGT
>MED12_LsgRNA618
GGTTCTATAACACACCTTAACTACAGGCAA
>MED12_LsgRNA619
GGTTCTATAACACACCTTAACTACAGGCAA
>MED12_LsgRNA620
CTCACTATCTTTGCCTGGAGCTGTTGGCGA
>MED12_LsgRNA621
CTCACTATCTTTGCCTGGAGCTGTTGGCGA
>MED12_LsgRNA622
TCTTCTCAAAACACTCAAGCACCCAGGTCA
>MED12_LsgRNA623
GCTTCTCAAATCCTCGGATCTGGTGGGCAG
>MED12_LsgRNA624
TGTTCTCAAGGCTGTGTTTGTACTTGGTAC
>MED12_LsgRNA625
TGTTCTCAAGGCTGTGTTTGTACTTGGTAC
>MED12_LsgRNA626
GCAGCTCAATCCTTGCCAGTCTGATGGAAG
>MED12_LsgRNA627
GCAGCTCAATCCTTGCCAGTCTGATGGAAG
>MED12_LsgRNA628
GCCACTCACACAGGACTATGGAATGGGCC

>MED12_LsgRNA629
GCCACTCACACAGGACTATGGAATGGGCCC
>MED12_LsgRNA630
GCAGCTCACACCTTCACCTACACGGGGCTA
>MED12_LsgRNA631
GTGGCTCACACGTGATGACATCTCGGGTCT
>MED12_LsgRNA632
GTGGCTCACACGTGATGACATCTCGGGTCT
>MED12_LsgRNA633
GGCGCTCACCTCTGTCTTGGTAGCTGGCTG
>MED12_LsgRNA634
GGCGCTCACCTCTGTCTTGGTAGCTGGCTG
>MED12_LsgRNA635
TGGTCTCAGAGATTGCTGCATAGTAGGCAC
>MED12_LsgRNA636
TGGTCTCAGAGATTGCTGCATAGTAGGCAC
>MED12_LsgRNA637
GGGGCTCAAAGGCAAGGTCCCCTCGGGAG
>MED12_LsgRNA638
GGGGCTCAAAGGCAAGGTCCCCTCGGGAG
>MED12_LsgRNA639
ACGGCTCCATCCACGATGCGGTTCTGGGAG
>MED12_LsgRNA640
ACGGCTCCATCCACGATGCGGTTCTGGGAG
>MED12_LsgRNA641
TGTTCTCCCCTACTATGCCCTGTGAGGGGA
>MED12_LsgRNA642
TGTTCTCCCCTACTATGCCCTGTGAGGGGA
>MED12_LsgRNA643
AGATCTCCTCAGATGATGATGCTGTGGTGT
>MED12_LsgRNA644
AGATCTCCTCAGATGATGATGCTGTGGTGT
>MED12_LsgRNA645
GGACCTCCTGCACCACCCAAACCCTGGTTC
>MED12_LsgRNA646
GGACCTCCTGCACCACCCAAACCCTGGTTC
>MED12_LsgRNA647
CAGCCTCCTTGTGCTCTGGGTCATCGGCAG
>MED12_LsgRNA648
CAGCCTCCTTGTGCTCTGGGTCATCGGCAG
>MED12_LsgRNA649
CCTTCTCGACATCTGGCTTCTCAGGGGATG
>MED12_LsgRNA650
CCTTCTCGACATCTGGCTTCTCAGGGGATG

>MED12_LsgRNA651
GTGGCTCGAGGAGAGGAGCAGCAGCGGTTG
>MED12_LsgRNA652
GTGGCTCGAGGAGAGGAGCAGCAGCGGTTG
>MED12_LsgRNA653
AGCTCTCTAGAGCGCTCTGGTGTATGGCTG
>MED12_LsgRNA654
AGCTCTCTAGAGCGCTCTGGTGTATGGCTG
>MED12_LsgRNA655
CTCACTCTCACTTCGAGGGTCCGCTGGAGG
>MED12_LsgRNA656
CTCACTCTCACTTCGAGGGTCCGCTGGAGG
>MED12_LsgRNA657
ACATCTCTGTGGAGACAGCCAGTCTGGATG
>MED12_LsgRNA658
ACATCTCTGTGGAGACAGCCAGTCTGGATG
>MED12_LsgRNA659
ACACCTCTTCCTTCTTACTGAAAAATGGGGA
>MED12_LsgRNA660
ACACCTCTTCCTTCTTACTGAAAAATGGGGA
>MED12_LsgRNA661
AAGTCTGCAAACCGTAGGAAGAGCTGGGAG
>MED12_LsgRNA662
AAGTCTGCAAACCGTAGGAAGAGCTGGGAG
>MED12_LsgRNA663
CGCTCTGCAGAGGAGCCATCGGACCGGTTT
>MED12_LsgRNA664
CGCTCTGCAGAGGAGCCATCGGACCGGTTT
>MED12_LsgRNA665
TCACCTGCAGGTAGTGGCTGGTTCTGGGTG
>MED12_LsgRNA666
TCACCTGCAGGTAGTGGCTGGTTCTGGGTG
>MED12_LsgRNA667
TGAGCTGCATGAGGCGCTGCGCCTGGGCAC
>MED12_LsgRNA668
TGAGCTGCATGAGGCGCTGCGCCTGGGCAC
>MED12_LsgRNA669
TCCTCTGCCACTCACACAGGACTATGGAAT
>MED12_LsgRNA670
TCCTCTGCCACTCACACAGGACTATGGAAT
>MED12_LsgRNA671
GCTGCTGCTGCTGCTCAGGTAGGATGGCTG
>MED12_LsgRNA672
GCTGCTGCTGCTGCTCAGGTAGGATGGCTG

>MED12_LsgRNA673
GGGCCTGCTGGTGCACATAGCCACTGGGCC
>MED12_LsgRNA674
GGGCCTGCTGGTGCACATAGCCACTGGGCC
>MED12_LsgRNA675
AAAGCTGCTGTCTGTTGCTGCTGCTGGGTC
>MED12_LsgRNA676
AAAGCTGCTGTCTGTTGCTGCTGCTGGGTC
>MED12_LsgRNA677
CTGGCTGGCTGCGTTTCTTGCCCTTGGTGG
>MED12_LsgRNA678
CTGGCTGGCTGCGTTTCTTGCCCTTGGTGG
>MED12_LsgRNA679
TTACCTGGGAAGTCTGCAAACCGTAGGAAG
>MED12_LsgRNA680
TTACCTGGGAAGTCTGCAAACCGTAGGAAG
>MED12_LsgRNA681
CGGGCTGGGCAAGATGGCGGCCTTCGGGAT
>MED12_LsgRNA682
CGGGCTGGGCAAGATGGCGGCCTTCGGGAT
>MED12_LsgRNA683
CGCCCTGGGCACTCATTGGAGTCATGGTAC
>MED12_LsgRNA684
CGCCCTGGGCACTCATTGGAGTCATGGTAC
>MED12_LsgRNA685
GTGGCTGGTCGTAAAGAACCCCAAGGGTCC
>MED12_LsgRNA686
GTACCTGGTGCACCTGGCTGTAGAGGGAGG
>MED12_LsgRNA687
GTACCTGGTGCACCTGGCTGTAGAGGGAGG
>MED12_LsgRNA688
ATCGCTGGTGCTAACATGTCTGAAAGGGCA
>MED12_LsgRNA689
ATCGCTGGTGCTAACATGTCTGAAAGGGCA
>MED12_LsgRNA690
GGGGCTGGTTTGGAACAGTCCGAGTGGACC
>MED12_LsgRNA691
GGGGCTGGTTTGGAACAGTCCGAGTGGACC
>MED12_LsgRNA692
CTGGCTGTCTCCACAGAGATGTTGCGGCCA
>MED12_LsgRNA693
CTTCCTGTGCCTGCAGAAGGAGTTGGGGGA
>MED12_LsgRNA694
CTTCCTGTGCCTGCAGAAGGAGTTGGGGGA

>MED12_LsgRNA695
CAGGCTGTGTGGCGTCGTGAAGCATGGGAT
>MED12_LsgRNA696
ATGGCTGTTGAACGGACGCCTGCCTGGACG
>MED12_LsgRNA697
ATGGCTGTTGAACGGACGCCTGCCTGGACG
>MED12_LsgRNA698
CCTCCTTAGGCTTCACCATTGGACGGGTAC
>MED12_LsgRNA699
CCTCCTTAGGCTTCACCATTGGACGGGTAC
>MED12_LsgRNA700
TCCTCTTATAAGACCTCTGTGTACCGGCAG
>MED12_LsgRNA701
TCCTCTTATAAGACCTCTGTGTACCGGCAG
>MED12_LsgRNA702
GTCCCTTCAATCTTCTCCTTGGGTGGGGGC
>MED12_LsgRNA703
GTCCCTTCAATCTTCTCCTTGGGTGGGGGC
>MED12_LsgRNA704
CTGCCTTCAGCCTCCTTGTGCTCTGGGTCA
>MED12_LsgRNA705
CTGCCTTCAGCCTCCTTGTGCTCTGGGTCA
>MED12_LsgRNA706
AGAACTTCCAGAGGAGGAGGGAGGAGGTGG
>MED12_LsgRNA707
AGAACTTCCAGAGGAGGAGGGAGGAGGTGG
>MED12_LsgRNA708
ACCTCTTCCTTCTTACTGAAAATGGGGACC
>MED12_LsgRNA709
ACCTCTTCCTTCTTACTGAAAATGGGGACC
>MED12_LsgRNA710
CTGGCTTCGATTCCATCTTCAAGAAGGAGG
>MED12_LsgRNA711
CTGGCTTCGATTCCATCTTCAAGAAGGAGG
>MED12_LsgRNA712
ACTTCTTCTTGCCTTCCTCAGTACTGGGTG
>MED12_LsgRNA713
ACTTCTTCTTGCCTTCCTCAGTACTGGGTG
>MED12_LsgRNA714
GGCCCTTGCCCCATGATGTAGAGGTGGCAA
>MED12_LsgRNA715
GGCCCTTGCCCCATGATGTAGAGGTGGCAA
>MED12_LsgRNA716
TGGCCTTGGCGATGTTCTCCAAGAGGGAGT

>MED12_LsgRNA717
TGGCCTTGGCGATGTTCTCCAAGAGGGAGT
>MED12_LsgRNA718
GAATCTTTGGATTGGGACCTAGCAAGGATG
>MED12_LsgRNA719
GAATCTTTGGATTGGGACCTAGCAAGGATG
>MED12_LsgRNA720
ACTACTTTGGGTACCTTTGAGTGGAGGTCA
>MED12_LsgRNA721
ACTACTTTGGGTACCTTTGAGTGGAGGTCA
>MED12_LsgRNA722
GTTGGAAAACCTCGATTGTGGCCTTGGCGA
>MED12_LsgRNA723
GTTGGAAAACCTCGATTGTGGCCTTGGCGA
>MED12_LsgRNA724
TCCAGAACTGCAGGAGGACATCCTGGAAA
>MED12_LsgRNA725
TCCAGAACTGCAGGAGGACATCCTGGAAA
>MED12_LsgRNA726
ACATGAACCTGGCGAAGAAGTTGCAGGTAA
>MED12_LsgRNA727
ACATGAACCTGGCGAAGAAGTTGCAGGTAA
>MED12_LsgRNA728
TTTCGAACGCACCTCCTTCTGTTTGGGGTC
>MED12_LsgRNA729
TTTCGAACGCACCTCCTTCTGTTTGGGGTC
>MED12_LsgRNA730
AGAAGAACTTCCAGAGGAGGAGGGAGGAGG
>MED12_LsgRNA731
AACAGAAGAACTTCCAGAGGAGGAGGGAGG
>MED12_LsgRNA732
AACAGAAGAACTTCCAGAGGAGGAGGGAGG
>MED12_LsgRNA733
TGGAGAAGAGACAGGCGGAGATTGAGGCTG
>MED12_LsgRNA734
TGGAGAAGAGACAGGCGGAGATTGAGGCTG
>MED12_LsgRNA735
AGGAGAAGATTGAAGGGACCCTTGGGGTTC
>MED12_LsgRNA736
AGGAGAAGATTGAAGGGACCCTTGGGGTTC
>MED12_LsgRNA737
CTGAGAAGCCAGATGTCTGAGAAGGAGGTGA
>MED12_LsgRNA738
CTGAGAAGCCAGATGTCTGAGAAGGAGGTGA

>MED12_LsgRNA739
GCAGGAAGCCCCAAGTGAACCAGAAGGATA
>MED12_LsgRNA740
TGCTGAAGCCCCTGGCGCTGGAAGTGGGTG
>MED12_LsgRNA741
TGCTGAAGCCCCTGGCGCTGGAAGTGGGTG
>MED12_LsgRNA742
ATAAGAAGGGCTGCTGGCTCAATAGGGACA
>MED12_LsgRNA743
ATAAGAAGGGCTGCTGGCTCAATAGGGACA
>MED12_LsgRNA744
GGTAGAAGGGTGGGTGCTCTGGTAAGGCTG
>MED12_LsgRNA745
GGTAGAAGGGTGGGTGCTCTGGTAAGGCTG
>MED12_LsgRNA746
CATGGAATATTCACCTCAGCATCAGTGGCCT
>MED12_LsgRNA747
CATGGAATATTCACCTCAGCATCAGTGGCCT
>MED12_LsgRNA748
TGCTGAATGAACTGAGTGTAGTTGAGGCTG
>MED12_LsgRNA749
TGCTGAATGAACTGAGTGTAGTTGAGGCTG
>MED12_LsgRNA750
CGGGGACAGGCAGTTGAAGTTCGCTGGTCT
>MED12_LsgRNA751
CGGGGACAGGCAGTTGAAGTTCGCTGGTCT
>MED12_LsgRNA752
TGCAGACATGTCTAGCATCTCGCAAGGTAG
>MED12_LsgRNA753
TGCAGACATGTCTAGCATCTCGCAAGGTAG
>MED12_LsgRNA754
CAGGGACATGTGTTAAAGGCTGCTGGGGAA
>MED12_LsgRNA755
CAGGGACATGTGTTAAAGGCTGCTGGGGAA
>MED12_LsgRNA756
GCAAGACCAAGCCTGTGCTCAGGTCGGATA
>MED12_LsgRNA757
GCAAGACCAAGCCTGTGCTCAGGTCGGATA
>MED12_LsgRNA758
CGGGGACCAGGGGCTCCAAAGGCAAGGTCC
>MED12_LsgRNA759
CGGGGACCAGGGGCTCCAAAGGCAAGGTCC
>MED12_LsgRNA760
AGTGGACCATGCGCCAGTCTTCCTTGGAGC

>MED12_LsgRNA761
AGTGGACCATGCGCCAGTCTTCCTTGGAGC
>MED12_LsgRNA762
AGGGGACCTTGCCTTTGGAGCCCCTGGTCC
>MED12_LsgRNA763
AGGGGACCTTGCCTTTGGAGCCCCTGGTCC
>MED12_LsgRNA764
AACGGACGCCTGCCTGGACGCCCTGGGCAC
>MED12_LsgRNA765
AACGGACGCCTGCCTGGACGCCCTGGGCAC
>MED12_LsgRNA766
ACAGGACGGTATGGGTCCACACGAGGGCCA
>MED12_LsgRNA767
ACAGGACGGTATGGGTCCACACGAGGGCCA
>MED12_LsgRNA768
CATCGACTGCTGGACAATGAGGATGGGGAA
>MED12_LsgRNA769
CATCGACTGCTGGACAATGAGGATGGGGAA
>MED12_LsgRNA770
ATCAGACTGGCAAGGATTGAGCTGCGGTGT
>MED12_LsgRNA771
ATCAGACTGGCAAGGATTGAGCTGCGGTGT
>MED12_LsgRNA772
CAAGGAGAAGATTGAAGGGACCCTTGGGGT
>MED12_LsgRNA773
CAAGGAGAAGATTGAAGGGACCCTTGGGGT
>MED12_LsgRNA774
AGATGAGAAGGGTTCCATCGCCTCTGGCTC
>MED12_LsgRNA775
AGAAGAGACATGTTGACCCTTTCATGGGTG
>MED12_LsgRNA776
AGAAGAGACATGTTGACCCTTTCATGGGTG
>MED12_LsgRNA777
AAGGGAGAGGGAGGCCGGGGACCAGGGGCT
>MED12_LsgRNA778
AAGGGAGAGGGAGGCCGGGGACCAGGGGCT
>MED12_LsgRNA779
GATCGAGCAGCAGATCAAGGAGCGGGGACA
>MED12_LsgRNA780
GATCGAGCAGCAGATCAAGGAGCGGGGACA
>MED12_LsgRNA781
CCTCGAGCCACTCGCCGGTCCACTCGGACT
>MED12_LsgRNA782
CCTCGAGCCACTCGCCGGTCCACTCGGACT

>MED12_LsgRNA783
CCAGGAGGAGCATGGCCCACTCCGTGGTCT
>MED12_LsgRNA784
CCAGGAGGAGCATGGCCCACTCCGTGGTCT
>MED12_LsgRNA785
TTCAGAGGCACAATAGGAGCAAGCTGGTCT
>MED12_LsgRNA786
TTCAGAGGCACAATAGGAGCAAGCTGGTCT
>MED12_LsgRNA787
TCCGGAGGCACTGTCACACCATAAGGGCCG
>MED12_LsgRNA788
TCCGGAGGCACTGTCACACCATAAGGGCCG
>MED12_LsgRNA789
GGAGGAGGTGGCAGTGGTGGTCGGAGGCAG
>MED12_LsgRNA790
GGAGGAGGTGGCAGTGGTGGTCGGAGGCAG
>MED12_LsgRNA791
ACAAGAGTAGGATTGGTAGAAGGGTGGGTG
>MED12_LsgRNA792
ACAAGAGTAGGATTGGTAGAAGGGTGGGTG
>MED12_LsgRNA793
ATGAGAGTGCAAGTATACATGTTGTGGGAG
>MED12_LsgRNA794
ATGAGAGTGCAAGTATACATGTTGTGGGAG
>MED12_LsgRNA795
TGTGGATAGCAAATGAGCTGCATGAGGCGC
>MED12_LsgRNA796
TGTGGATAGCAAATGAGCTGCATGAGGCGC
>MED12_LsgRNA797
CAAAGATATCTTCAGCAGTGGGGAAGGCTT
>MED12_LsgRNA798
CAAAGATATCTTCAGCAGTGGGGAAGGCTT
>MED12_LsgRNA799
CTCAGATCATCACCAAGTACTTATGGGAGC
>MED12_LsgRNA800
CTCAGATCATCACCAAGTACTTATGGGAGC
>MED12_LsgRNA801
TCGTGATCTGCTCCAGAACATTCCGGGAGA
>MED12_LsgRNA802
TCGTGATCTGCTCCAGAACATTCCGGGAGA
>MED12_LsgRNA803
ACGTGATGACATCTCGGGTCTGCTTGGGCA
>MED12_LsgRNA804
ACGTGATGACATCTCGGGTCTGCTTGGGCA

>MED12_LsgRNA805
AGGGGATGCGGAACTGAAAGGTTTCAGGCTT
>MED12_LsgRNA806
AGGGGATGCGGAACTGAAAGGTTTCAGGCTT
>MED12_LsgRNA807
GGCAGATGCTGCGCAGCACGTACTTGGCAT
>MED12_LsgRNA808
GGCAGATGCTGCGCAGCACGTACTTGGCAT
>MED12_LsgRNA809
GCCGGATTGCCACCTCTACATCATGGGGCA
>MED12_LsgRNA810
GCCGGATTGCCACCTCTACATCATGGGGCA
>MED12_LsgRNA811
CAGAGATTGCTGCATAGTAGGCACAGGTCA
>MED12_LsgRNA812
CAGAGATTGCTGCATAGTAGGCACAGGTCA
>MED12_LsgRNA813
CTTAGCAAAGATATCTTCAGCAGTGGGGAA
>MED12_LsgRNA814
CTTAGCAAAGATATCTTCAGCAGTGGGGAA
>MED12_LsgRNA815
AGCAGCAAGACCAAGCCTGTGCTCAGGTCTG
>MED12_LsgRNA816
AGCAGCAAGACCAAGCCTGTGCTCAGGTCTG
>MED12_LsgRNA817
AGAGGCAAGTGGTATGACATGCCAAGGGCA
>MED12_LsgRNA818
AGAGGCAAGTGGTATGACATGCCAAGGGCA
>MED12_LsgRNA819
GAGGGCACATAAGCAGGTCACTAAAGGGAG
>MED12_LsgRNA820
GAGGGCACATAAGCAGGTCACTAAAGGGAG
>MED12_LsgRNA821
CGCAGCACCCAGCAGACCACGGAGTGGGCC
>MED12_LsgRNA822
CGCAGCACCCAGCAGACCACGGAGTGGGCC
>MED12_LsgRNA823
TGGGGCACCGCAGGTTGCTGCTGCCGGTAC
>MED12_LsgRNA824
TGGGGCACCGCAGGTTGCTGCTGCCGGTAC
>MED12_LsgRNA825
GGCAGCACTCCAGGGTAAGTTGGTCGGGTG
>MED12_LsgRNA826
GGCAGCACTCCAGGGTAAGTTGGTCGGGTG

>MED12_LsgRNA827
GTCAGCAGAGACAGGGTCATCTTCTGGAAG
>MED12_LsgRNA828
GTCAGCAGAGACAGGGTCATCTTCTGGAAG
>MED12_LsgRNA829
AGCAGCAGATCAAGGAGCGGGGACAGGCAG
>MED12_LsgRNA830
AGCAGCAGATCAAGGAGCGGGGACAGGCAG
>MED12_LsgRNA831
AGCAGCAGCAACAGACAGCAGCTTTGGTCC
>MED12_LsgRNA832
AGCAGCAGCAACAGACAGCAGCTTTGGTCC
>MED12_LsgRNA833
ACCAGCAGCAACAGCAGCAACAGGCGGCTC
>MED12_LsgRNA834
ACCAGCAGCAACAGCAGCAACAGGCGGCTC
>MED12_LsgRNA835
AGCAGCAGCAGCAGCAGATCCTGCGGGTAA
>MED12_LsgRNA836
AGCAGCAGCAGCAGCAGATCCTGCGGGTAA
>MED12_LsgRNA837
ATCGGCAGGATCATCAAAGGGAGAGGGAGG
>MED12_LsgRNA838
ATCGGCAGGATCATCAAAGGGAGAGGGAGG
>MED12_LsgRNA839
AGGAGCAGGCGGCTCCTCATCTTCTGGGGG
>MED12_LsgRNA840
AGGAGCAGGCGGCTCCTCATCTTCTGGGGG
>MED12_LsgRNA841
CATTGCAGGTCCGTGCAAAGTTGCGGGAGA
>MED12_LsgRNA842
CATTGCAGGTCCGTGCAAAGTTGCGGGAGA
>MED12_LsgRNA843
ATGTGCAGTTCATCTTCGACCTCATGGAAT
>MED12_LsgRNA844
ATGTGCAGTTCATCTTCGACCTCATGGAAT
>MED12_LsgRNA845
CACTGCCACTGCCCCAGAAGATGAGGAGC
>MED12_LsgRNA846
CACTGCCACTGCCCCAGAAGATGAGGAGC
>MED12_LsgRNA847
CGAAGCCAGCAATCTTGTTGCCCTTGGTAT
>MED12_LsgRNA848
CGAAGCCAGCAATCTTGTTGCCCTTGGTAT

>MED12_LsgRNA849
ACCGGCCAGGGCCTGCAGGAAGTGGGGGCT
>MED12_LsgRNA850
ACCGGCCAGGGCCTGCAGGAAGTGGGGGCT
>MED12_LsgRNA851
TGTAGCCATTTAAAGAACAAATTTGGGGAG
>MED12_LsgRNA852
TGTAGCCATTTAAAGAACAAATTTGGGGAG
>MED12_LsgRNA853
TGGTGCCCCACACAGACGTGCATAAGGGCA
>MED12_LsgRNA854
TGGTGCCCCACACAGACGTGCATAAGGGCA
>MED12_LsgRNA855
GGAGGCCCCAGCCGCGGCCGCTTCAGGGGC
>MED12_LsgRNA856
GGAGGCCCCAGCCGCGGCCGCTTCAGGGGC
>MED12_LsgRNA857
CAGAGCCCCCAAACACTGACAAAACCGGGGG
>MED12_LsgRNA858
CAGAGCCCCCAAACACTGACAAAACCGGGGG
>MED12_LsgRNA859
ACCGGCCCTGAAGCGGCCGCGGCTGGGGC
>MED12_LsgRNA860
ACCGGCCCTGAAGCGGCCGCGGCTGGGGC
>MED12_LsgRNA861
TAGGGCCCTTGCCCCATGATGTAGAGGTGG
>MED12_LsgRNA862
TAGGGCCCTTGCCCCATGATGTAGAGGTGG
>MED12_LsgRNA863
CCCAGCCGCGGCCGCTTCAGGGGCCGCTGT
>MED12_LsgRNA864
CCCAGCCGCGGCCGCTTCAGGGGCCGCTGT
>MED12_LsgRNA865
CGGGGCCGGGCCTCAGGTGTGTGTGGTAG
>MED12_LsgRNA866
CGGGGCCGGGCCTCAGGTGTGTGTGGTAG
>MED12_LsgRNA867
TGAAGCCGTCAGCACCACTCTCTTGGGGCT
>MED12_LsgRNA868
TGAAGCCGTCAGCACCACTCTCTTGGGGCT
>MED12_LsgRNA869
TCTTGCCTAGCCCCGTGTAGGTGAAGGTGT
>MED12_LsgRNA870
TCTTGCCTAGCCCCGTGTAGGTGAAGGTGT

>MED12_LsgRNA871
GAGTGCCTCATGCATAAGCTGCTTTGGTTT
>MED12_LsgRNA872
GAGTGCCTCATGCATAAGCTGCTTTGGTTT
>MED12_LsgRNA873
TGGGGCCTCCCGATGTTTACCCTCAGGACC
>MED12_LsgRNA874
TGGGGCCTCCCGATGTTTACCCTCAGGACC
>MED12_LsgRNA875
CTGCGCCTGGGCACTACTCAAACTGGGTC
>MED12_LsgRNA876
CTGCGCCTGGGCACTACTCAAACTGGGTC
>MED12_LsgRNA877
TGCAGCGCAGCACCCAGCAGACCACGGAGT
>MED12_LsgRNA878
GGCAGCGCATAAAGCGCATTCTCCAGGTAG
>MED12_LsgRNA879
GGCAGCGCATAAAGCGCATTCTCCAGGTAG
>MED12_LsgRNA880
GACAGCGCCTTCGCCAACAGCTCCAGGCAA
>MED12_LsgRNA881
GACAGCGCCTTCGCCAACAGCTCCAGGCAA
>MED12_LsgRNA882
TACAGCGCTCTGCAGAGGAGCCATCGGACC
>MED12_LsgRNA883
TACAGCGCTCTGCAGAGGAGCCATCGGACC
>MED12_LsgRNA884
GAATGCGCTTTATGCGCTGCCGCTGGGGGT
>MED12_LsgRNA885
GAATGCGCTTTATGCGCTGCCGCTGGGGGT
>MED12_LsgRNA886
ACCAGCGGTTGGTCGTACTGTTTGGGGTGG
>MED12_LsgRNA887
AGTAGCGTCCAAATATGTTGGTACTGGGCT
>MED12_LsgRNA888
AGTAGCGTCCAAATATGTTGGTACTGGGCT
>MED12_LsgRNA889
TGGTGCTAACATGTCTGAAAGGGCAGGATG
>MED12_LsgRNA890
TGGTGCTAACATGTCTGAAAGGGCAGGATG
>MED12_LsgRNA891
AGCAGCTACCTGGGGCTGGGACTGGGGCTG
>MED12_LsgRNA892
AGCAGCTACCTGGGGCTGGGACTGGGGCTG

>MED12_LsgRNA893
GACTGCTCACACCATCCAGCTGCAGGGCCA
>MED12_LsgRNA894
TGCAGCTCACACCTTACCTACACGGGGCT
>MED12_LsgRNA895
TGCAGCTCACACCTTACCTACACGGGGCT
>MED12_LsgRNA896
TGTGGCTCACACGTGATGACATCTCGGGTC
>MED12_LsgRNA897
TGTGGCTCACACGTGATGACATCTCGGGTC
>MED12_LsgRNA898
ATGAGCTGCATGAGGCGCTGCGCCTGGGCA
>MED12_LsgRNA899
ATGAGCTGCATGAGGCGCTGCGCCTGGGCA
>MED12_LsgRNA900
ACGTGCTGCGCAGCATCTGCCAACAGGTCA
>MED12_LsgRNA901
ACGTGCTGCGCAGCATCTGCCAACAGGTCA
>MED12_LsgRNA902
GCTGGCTGCGTTTCTTGCCCTTGGTGGACT
>MED12_LsgRNA903
GCTGGCTGCGTTTCTTGCCCTTGGTGGACT
>MED12_LsgRNA904
TGCTGCTGCTGCTGCTGCCGGATGTGGTAC
>MED12_LsgRNA905
TGCTGCTGCTGCTGCTGCCGGATGTGGTAC
>MED12_LsgRNA906
TGCTGCTGCTGCTGCTGCTCAGGTAGGATG
>MED12_LsgRNA907
TGCTGCTGCTGCTGCTGCTCAGGTAGGATG
>MED12_LsgRNA908
AGAAGCTGGCCATGTTTCATGTTTCAGGTAG
>MED12_LsgRNA909
AGAAGCTGGCCATGTTTCATGTTTCAGGTAG
>MED12_LsgRNA910
TGCTGCTGGGTCTGCTGAAGCCCCTGGCGC
>MED12_LsgRNA911
TGCTGCTGGGTCTGCTGAAGCCCCTGGCGC
>MED12_LsgRNA912
ATGGGCTGTCAGCTGCAAGCGTTCTGGTTCG
>MED12_LsgRNA913
ATGGGCTGTCAGCTGCAAGCGTTCTGGTTCG
>MED12_LsgRNA914
CTGTGCTGTCCTAGTGCCTTGGTTTGGCAC

>MED12_LsgRNA915
GCCTGCTGTCTCTGGGGATGAGCATGGCAG
>MED12_LsgRNA916
GCCTGCTGTCTCTGGGGATGAGCATGGCAG
>MED12_LsgRNA917
AGCTGCTTCTCAAATCCTCGGATCTGGTGG
>MED12_LsgRNA918
AGCTGCTTCTCAAATCCTCGGATCTGGTGG
>MED12_LsgRNA919
GTCTGCTTGGGCAGTGGCAGCAGCTGGCGA
>MED12_LsgRNA920
GTCTGCTTGGGCAGTGGCAGCAGCTGGCGA
>MED12_LsgRNA921
ATGCGCTTTATGCGCTGCCGCTGGGGTTT
>MED12_LsgRNA922
CTATGGAATGGGCCCGGGTCCGAGCGGCC
>MED12_LsgRNA923
CTATGGAATGGGCCCGGGTCCGAGCGGCC
>MED12_LsgRNA924
CCAGGGACATGTGTTAAAGGCTGCTGGGGA
>MED12_LsgRNA925
CCAGGGACATGTGTTAAAGGCTGCTGGGGA
>MED12_LsgRNA926
GAACGGACGCCTGCCTGGACGCCCTGGGCA
>MED12_LsgRNA927
GAACGGACGCCTGCCTGGACGCCCTGGGCA
>MED12_LsgRNA928
CACAGGACGGTATGGGTCCACACGAGGGCC
>MED12_LsgRNA929
CACAGGACGGTATGGGTCCACACGAGGGCC
>MED12_LsgRNA930
GGATGGACTGCCCTTCCCCTCACAGGGCAT
>MED12_LsgRNA931
GGATGGACTGCCCTTCCCCTCACAGGGCAT
>MED12_LsgRNA932
AAAGGGAGAGGGAGGCCGGGGACCAGGGGC
>MED12_LsgRNA933
AAAGGGAGAGGGAGGCCGGGGACCAGGGGC
>MED12_LsgRNA934
TGCGGGAGATCGAGCAGCAGATCAAGGAGC
>MED12_LsgRNA935
TGCGGGAGATCGAGCAGCAGATCAAGGAGC
>MED12_LsgRNA936
TGGGGGAGCGCCAGTCAGACAGTCTGGAAA

>MED12_LsgRNA937
TGGGGGAGCGCCAGTCAGACAGTCTGGAAA
>MED12_LsgRNA938
GTCCGGAGGCACTGTCACACCATAAGGGCC
>MED12_LsgRNA939
GTCCGGAGGCACTGTCACACCATAAGGGCC
>MED12_LsgRNA940
CGGGGAGGCGCTCACCTCTGTCTTGGTAG
>MED12_LsgRNA941
GAGTGGAGGTCAGTCCATGTCCATAGGTGG
>MED12_LsgRNA942
GAGTGGAGGTCAGTCCATGTCCATAGGTGG
>MED12_LsgRNA943
AGAAGGAGGTGAAGCCCCACCCAAGGAGA
>MED12_LsgRNA944
AGAAGGAGGTGAAGCCCCACCCAAGGAGA
>MED12_LsgRNA945
GGCTGGAGTAGCTGGGGGCACCATGGTAC
>MED12_LsgRNA946
GGCTGGAGTAGCTGGGGGCACCATGGTAC
>MED12_LsgRNA947
CATTGGAGTCATGGTACTTATCATGGGTGT
>MED12_LsgRNA948
CATTGGAGTCATGGTACTTATCATGGGTGT
>MED12_LsgRNA949
CCACGGAGTGGGCCATGCTCCTCCTGGAGA
>MED12_LsgRNA950
CCACGGAGTGGGCCATGCTCCTCCTGGAGA
>MED12_LsgRNA951
GGCAGGATCATCAAAGGGAGAGGGAGGCCG
>MED12_LsgRNA952
TTCGGGATCTTGAGCTACGAACACCGGCC
>MED12_LsgRNA953
TTCGGGATCTTGAGCTACGAACACCGGCC
>MED12_LsgRNA954
TCCAGGATGTCCTCCTGCAGTTTCTGGATA
>MED12_LsgRNA955
TCCAGGATGTCCTCCTGCAGTTTCTGGATA
>MED12_LsgRNA956
TGCCGGATTGCCACCTCTACATCATGGGGC
>MED12_LsgRNA957
TGCCGGATTGCCACCTCTACATCATGGGGC
>MED12_LsgRNA958
CTTTGGATTGGGACCTAGCAAGGATGGGCA

>MED12_LsgRNA959
CTTTGGATTGGGACCTAGCAAGGATGGGCA
>MED12_LsgRNA960
TCCAGGCACTACTCACATTGTTAGGGGTCT
>MED12_LsgRNA961
TGAAGGCACTGTTACCCTCTGGCATGGGCA
>MED12_LsgRNA962
TGAAGGCACTGTTACCCTCTGGCATGGGCA
>MED12_LsgRNA963
GATGGGCAGAAGCGGCGACGCAACCGGCCT
>MED12_LsgRNA964
GATGGGCAGAAGCGGCGACGCAACCGGCCT
>MED12_LsgRNA965
TGTGGGCAGCACTCCAGGGTAAGTTGGTTCG
>MED12_LsgRNA966
TGTGGGCAGCACTCCAGGGTAAGTTGGTTCG
>MED12_LsgRNA967
CATCGGCAGGATCATCAAAGGGAGAGGGAG
>MED12_LsgRNA968
CATCGGCAGGATCATCAAAGGGAGAGGGAG
>MED12_LsgRNA969
AGGTGGCAGTGGTGGTTCGGAGGCAGGGTGG
>MED12_LsgRNA970
AGGTGGCAGTGGTGGTTCGGAGGCAGGGTGG
>MED12_LsgRNA971
TACCGGCCAGGGCCTGCAGGAAGTGGGGGC
>MED12_LsgRNA972
TACCGGCCAGGGCCTGCAGGAAGTGGGGGC
>MED12_LsgRNA973
GCATGGCCCACTCCGTGGTCTGCTGGGTGC
>MED12_LsgRNA974
GCATGGCCCACTCCGTGGTCTGCTGGGTGC
>MED12_LsgRNA975
AGCAGGCGGCTCCTCATCTTCTGGGGGCAG
>MED12_LsgRNA976
AGCAGGCGGCTCCTCATCTTCTGGGGGCAG
>MED12_LsgRNA977
TTTTGGCTAGTTGCGTGAGTGGCTTGGTGC
>MED12_LsgRNA978
TTTTGGCTAGTTGCGTGAGTGGCTTGGTGC
>MED12_LsgRNA979
CAGTGGCTCCAGGTAATAGGCGCGGGGCCG
>MED12_LsgRNA980
CAGTGGCTCCAGGTAATAGGCGCGGGGCCG

>MED12_LsgRNA981
ACAGGGCTCCCTTATCGATAACCAAGGGCAA
>MED12_LsgRNA982
ACAGGGCTCCCTTATCGATAACCAAGGGCAA
>MED12_LsgRNA983
CTCAGGCTCTAGCAGGGTAGGAGCAGGCGG
>MED12_LsgRNA984
CTCAGGCTCTAGCAGGGTAGGAGCAGGCGG
>MED12_LsgRNA985
CGGGGGCTGCTCCACCCAGTACTGAGGAAC
>MED12_LsgRNA986
CGGGGGCTGCTCCACCCAGTACTGAGGAAC
>MED12_LsgRNA987
GTAAGGCTGGCTGGAGTAGCTGGGGGGCAC
>MED12_LsgRNA988
GTAAGGCTGGCTGGAGTAGCTGGGGGGCAC
>MED12_LsgRNA989
TTGGGGCTTCCTGCGACCAGTGTTCAGGAAG
>MED12_LsgRNA990
TTGGGGCTTCCTGCGACCAGTGTTCAGGAAG
>MED12_LsgRNA991
CACAGGCTTGGTCTTGCTGCTGCTGGGCAT
>MED12_LsgRNA992
CACAGGCTTGGTCTTGCTGCTGCTGGGCAT
>MED12_LsgRNA993
GCTGGGAATAGTACCTGGGGGATGGGAAA
>MED12_LsgRNA994
GCTGGGAATAGTACCTGGGGGATGGGAAA
>MED12_LsgRNA995
AAATGGGAGCACTGGGAGCAGAAAGGGAGC
>MED12_LsgRNA996
AAATGGGAGCACTGGGAGCAGAAAGGGAGC
>MED12_LsgRNA997
CACTGGGAGCAGAAAGGGAGCCAGAGGCGA
>MED12_LsgRNA998
CACTGGGAGCAGAAAGGGAGCCAGAGGCGA
>MED12_LsgRNA999
TTCTGGGAGGCAGCCAGCAGGTGGCGGTTCG
>MED12_LsgRNA1000
GAAAGGGCAGGATGAACAACGCGAGGGACT
>MED12_LsgRNA1001
GAAAGGGCAGGATGAACAACGCGAGGGACT
>MED12_LsgRNA1002
AGGTGGGCAGTTTAGCAATGAGGGGGGCCA

>MED12_LsgRNA1003
AGGTGGGCAGTTTAGCAATGAGGGGGGCCA
>MED12_LsgRNA1004
CACTGGGCCGCTGTTGCAGGTGGCGGGTAG
>MED12_LsgRNA1005
CACTGGGCCGCTGTTGCAGGTGGCGGGTAG
>MED12_LsgRNA1006
CCCAGGGCGAGATCTTCTGTTTGGTGGAAA
>MED12_LsgRNA1007
CCCAGGGCGAGATCTTCTGTTTGGTGGAAA
>MED12_LsgRNA1008
CACAGGGCTCCCTTATCGATAACCAAGGGCA
>MED12_LsgRNA1009
CACAGGGCTCCCTTATCGATAACCAAGGGCA
>MED12_LsgRNA1010
TGCTGGGGAATAGTACCTGGGGGATGGGAA
>MED12_LsgRNA1011
TGCTGGGGAATAGTACCTGGGGGATGGGAA
>MED12_LsgRNA1012
CTGGGGGCACCATGGTACCTGCAGGGCCT
>MED12_LsgRNA1013
CTGGGGGCACCATGGTACCTGCAGGGCCT
>MED12_LsgRNA1014
TCTGGGGCAGTGGCAGTGGCTCCAGGTAA
>MED12_LsgRNA1015
TCTGGGGCAGTGGCAGTGGCTCCAGGTAA
>MED12_LsgRNA1016
GTGTGGGGCCTCTATCACAGAACTTGGACC
>MED12_LsgRNA1017
AGTGGGGCTGTGGTTCCACGATAGGGCCC
>MED12_LsgRNA1018
AGTGGGGCTGTGGTTCCACGATAGGGCCC
>MED12_LsgRNA1019
GCTGGGGGCACCATGGTACCTGCAGGGCC
>MED12_LsgRNA1020
GCTGGGGGCACCATGGTACCTGCAGGGCC
>MED12_LsgRNA1021
AAGTGGGGCTGTGGTTCCACGATAGGGCC
>MED12_LsgRNA1022
AAGTGGGGCTGTGGTTCCACGATAGGGCC
>MED12_LsgRNA1023
GTTTGGGGTCCTGAGGGTAAACATCGGGAG
>MED12_LsgRNA1024
GTTTGGGGTCCTGAGGGTAAACATCGGGAG

>MED12_LsgRNA1025
TTTGGGGTCCTGAGGGTAAACATCGGGAGG
>MED12_LsgRNA1026
GGCAGGGTGGCCGCAACATCTCTGTGGAGA
>MED12_LsgRNA1027
GGCAGGGTGGCCGCAACATCTCTGTGGAGA
>MED12_LsgRNA1028
GTTTGGGTGGTGCAGGAGGTCCGGAGGCAC
>MED12_LsgRNA1029
GTTTGGGTGGTGCAGGAGGTCCGGAGGCAC
>MED12_LsgRNA1030
CATTGGTAAGCGCACAGGACGGTATGGGTC
>MED12_LsgRNA1031
CATTGGTAAGCGCACAGGACGGTATGGGTC
>MED12_LsgRNA1032
TGGAGGTCAGTCCATGTCCATAGGTGGGGG
>MED12_LsgRNA1033
TGGAGGTCAGTCCATGTCCATAGGTGGGGG
>MED12_LsgRNA1034
TGTTGGTCATAATGTGAAAGGTGCTGGAAC
>MED12_LsgRNA1035
TGTTGGTCATAATGTGAAAGGTGCTGGAAC
>MED12_LsgRNA1036
CAAGGGTCCCTTCAATCTTCTCCTTGGGTG
>MED12_LsgRNA1037
CAAGGGTCCCTTCAATCTTCTCCTTGGGTG
>MED12_LsgRNA1038
GGTGGGTGCTCTGGTAAGGCTGGCTGGAGT
>MED12_LsgRNA1039
GGTGGGTGCTCTGGTAAGGCTGGCTGGAGT
>MED12_LsgRNA1040
GGCCGGTGCTGAGGGCACATAAGCAGGTCA
>MED12_LsgRNA1041
GGCCGGTGCTGAGGGCACATAAGCAGGTCA
>MED12_LsgRNA1042
AGCAGGTGGCGGTTCGAGGAGGAGCGGATT
>MED12_LsgRNA1043
AGCAGGTGGCGGTTCGAGGAGGAGCGGATT
>MED12_LsgRNA1044
CTGAGGTGGGCAGTTTAGCAATGAGGGGGG
>MED12_LsgRNA1045
AGCGGGTGGGGATGCTTTACTTGTGGACT
>MED12_LsgRNA1046
AGCGGGTGGGGATGCTTTACTTGTGGACT

>MED12_LsgRNA1047
GGCAGGTGGGGGCATGTTTGACACGGTGC
>MED12_LsgRNA1048
GGCAGGTGGGGGCATGTTTGACACGGTGC
>MED12_LsgRNA1049
GAAGGGTGGGTGCTCTGGTAAGGCTGGCTG
>MED12_LsgRNA1050
GAAGGGTGGGTGCTCTGGTAAGGCTGGCTG
>MED12_LsgRNA1051
CTGTGGTGTCAATTGCTATGTGAATGGGCTG
>MED12_LsgRNA1052
CTGTGGTGTCAATTGCTATGTGAATGGGCTG
>MED12_LsgRNA1053
GAAAGGTTCAAGCTTCACTGTGACAGGAGG
>MED12_LsgRNA1054
GAAAGGTTCAAGCTTCACTGTGACAGGAGG
>MED12_LsgRNA1055
TTCAGTAAGAAGGAAGAGGTGTTTGGGTAC
>MED12_LsgRNA1056
ATTGGTAAGCGCACAGGACGGTATGGGTCC
>MED12_LsgRNA1057
ATTGGTAAGCGCACAGGACGGTATGGGTCC
>MED12_LsgRNA1058
TCTGGTAAGGCTGGCTGGAGTAGCTGGGGG
>MED12_LsgRNA1059
TCTGGTAAGGCTGGCTGGAGTAGCTGGGGG
>MED12_LsgRNA1060
GCCCGTACACAGAGGTCTTATAAGAGGAGG
>MED12_LsgRNA1061
GCCCGTACACAGAGGTCTTATAAGAGGAGG
>MED12_LsgRNA1062
CTCAGTACTGGGTGGAGCAGCCCCGGTTT
>MED12_LsgRNA1063
CTCAGTACTGGGTGGAGCAGCCCCGGTTT
>MED12_LsgRNA1064
TAGTGTAGCTGCCACCAGATCCGAGGATT
>MED12_LsgRNA1065
TAGTGTAGCTGCCACCAGATCCGAGGATT
>MED12_LsgRNA1066
CTTGGTATCGATAAGGGAGCCCTGTGGCTC
>MED12_LsgRNA1067
CTTGGTATCGATAAGGGAGCCCTGTGGCTC
>MED12_LsgRNA1068
CAGGGTCACTTACTTCCATCAGACTGGCAA

>MED12_LsgRNA1069
CAGGGTCACTTACTTCCATCAGACTGGCAA
>MED12_LsgRNA1070
GAATGTCAGGTCTCCAGGATTCAGAGGCAC
>MED12_LsgRNA1071
GAATGTCAGGTCTCCAGGATTCAGAGGCAC
>MED12_LsgRNA1072
GGAGGTCAGTCCATGTCCATAGGTGGGGGC
>MED12_LsgRNA1073
GGAGGTCAGTCCATGTCCATAGGTGGGGGC
>MED12_LsgRNA1074
CCAAGTCAGTGAACCAAGTGTAAATGGCAC
>MED12_LsgRNA1075
CCAAGTCAGTGAACCAAGTGTAAATGGCAC
>MED12_LsgRNA1076
CTGGGTCATCGGCAGGATCATCAAAGGGAG
>MED12_LsgRNA1077
CTGGGTCATCGGCAGGATCATCAAAGGGAG
>MED12_LsgRNA1078
TGTAGTCCAGCAGCTACCTGGGGCTGGGAC
>MED12_LsgRNA1079
TGTAGTCCAGCAGCTACCTGGGGCTGGGAC
>MED12_LsgRNA1080
CCATGTCCATAGGTGGGGCCTGCTGGTGC
>MED12_LsgRNA1081
CCATGTCCATAGGTGGGGCCTGCTGGTGC
>MED12_LsgRNA1082
AACTGTCCCCTCAGGTGGGGAGGATGGGCA
>MED12_LsgRNA1083
AACTGTCCCCTCAGGTGGGGAGGATGGGCA
>MED12_LsgRNA1084
AAGGGTCCCTTCAATCTTCTCCTTGGGTGG
>MED12_LsgRNA1085
AAGGGTCCCTTCAATCTTCTCCTTGGGTGG
>MED12_LsgRNA1086
TCTGGTCCCTGGTTGAGGATGAGGCAGGCAT
>MED12_LsgRNA1087
GGGAGTCGAGGGTGTGCTGCTAGTTGGGGG
>MED12_LsgRNA1088
GGGAGTCGAGGGTGTGCTGCTAGTTGGGGG
>MED12_LsgRNA1089
GATGGTCGTGTCTTACAGTACTCTGGGGA
>MED12_LsgRNA1090
GATGGTCGTGTCTTACAGTACTCTGGGGA

>MED12_LsgRNA1091
CCAAGTCTCACATCAACATTGCAGAGGAGA
>MED12_LsgRNA1092
CCAAGTCTCACATCAACATTGCAGAGGAGA
>MED12_LsgRNA1093
TACTGTGAGGTACCTAAGAATGTCAGGTCT
>MED12_LsgRNA1094
TACTGTGAGGTACCTAAGAATGTCAGGTCT
>MED12_LsgRNA1095
GAACGTGATCGACAAAAGCAGAAGAGGTAA
>MED12_LsgRNA1096
GAACGTGATCGACAAAAGCAGAAGAGGTAA
>MED12_LsgRNA1097
CTTGGTGATGATCTGAGTCCATTCTGGAGG
>MED12_LsgRNA1098
CTTGGTGATGATCTGAGTCCATTCTGGAGG
>MED12_LsgRNA1099
CCTGGTGCACCTGGCTGTAGAGGGAGGTAA
>MED12_LsgRNA1100
CCTGGTGCACCTGGCTGTAGAGGGAGGTAA
>MED12_LsgRNA1101
ACCTGTGCCATCTGGTCCTGGTTGAGGATG
>MED12_LsgRNA1102
ACCTGTGCCATCTGGTCCTGGTTGAGGATG
>MED12_LsgRNA1103
TTATGTGCCCTCAGCACCGGCCCTGGTTT
>MED12_LsgRNA1104
TTATGTGCCCTCAGCACCGGCCCTGGTTT
>MED12_LsgRNA1105
TCCTGTGCCTGCAGAAGGAGTTGGGGGAGC
>MED12_LsgRNA1106
TCCTGTGCCTGCAGAAGGAGTTGGGGGAGC
>MED12_LsgRNA1107
TGGAGTGCTGCCCACAACCATGACTGGCGT
>MED12_LsgRNA1108
TGGAGTGCTGCCCACAACCATGACTGGCGT
>MED12_LsgRNA1109
GGGTGTGCTGCTAGTTGGGGGCTGAGGAGC
>MED12_LsgRNA1110
GGGTGTGCTGCTAGTTGGGGGCTGAGGAGC
>MED12_LsgRNA1111
CCGAGTGGACCGGCGAGTGGCTCGAGGAGA
>MED12_LsgRNA1112
CCGAGTGGACCGGCGAGTGGCTCGAGGAGA

>MED12_LsgRNA1113
GGCAGTGGCTCCAGGTAATAGGCGCGGGGC
>MED12_LsgRNA1114
GGCAGTGGCTCCAGGTAATAGGCGCGGGGC
>MED12_LsgRNA1115
GGTAGTGGCTGGTTCTGGGTGTACAGGCCT
>MED12_LsgRNA1116
GGTAGTGGCTGGTTCTGGGTGTACAGGCCT
>MED12_LsgRNA1117
GGCAGTGGGATTACACCGAGAAGCTGGCCA
>MED12_LsgRNA1118
GGCAGTGGGATTACACCGAGAAGCTGGCCA
>MED12_LsgRNA1119
TCATGTGGGATTGCAGCAACACACAGGCC
>MED12_LsgRNA1120
TCATGTGGGATTGCAGCAACACACAGGCC
>MED12_LsgRNA1121
TCAGGTGGGGAGGATGGGCAGAAGCGGCGA
>MED12_LsgRNA1122
TCAGGTGGGGAGGATGGGCAGAAGCGGCGA
>MED12_LsgRNA1123
AGGTGTGTTATAGAACCAGGGTTTGGGTGG
>MED12_LsgRNA1124
AGGTGTGTTATAGAACCAGGGTTTGGGTGG
>MED12_LsgRNA1125
ACATGTTAGCACCAGCGATAAGAAGGGCTG
>MED12_LsgRNA1126
ACATGTTAGCACCAGCGATAAGAAGGGCTG
>MED12_LsgRNA1127
AGAAGTTATCCTTCTGGTTCACCTGGGGCT
>MED12_LsgRNA1128
AGAAGTTATCCTTCTGGTTCACCTGGGGCT
>MED12_LsgRNA1129
TTATGTTCTATGCCCTCAGGATCCAGGGCT
>MED12_LsgRNA1130
TTATGTTCTATGCCCTCAGGATCCAGGGCT
>MED12_LsgRNA1131
GCTGGTTCTGGGTGTACAGGCCTATGGAGC
>MED12_LsgRNA1132
GCTGGTTCTGGGTGTACAGGCCTATGGAGC
>MED12_LsgRNA1133
TCTTGTGCCCCTTGGTATCGATAAAGGGAGC
>MED12_LsgRNA1134
TCTTGTGCCCCTTGGTATCGATAAAGGGAGC

>MED12_LsgRNA1135
AGCTGTTGGCGAAGGCGCTGTCCTTGGGGC
>MED12_LsgRNA1136
AGCTGTTGGCGAAGGCGCTGTCCTTGGGGC
>MED12_LsgRNA1137
ATATGTTGGTACTGGGCTGTGGCTGGGTAT
>MED12_LsgRNA1138
ATATGTTGGTACTGGGCTGTGGCTGGGTAT
>MED12_LsgRNA1139
AGCGGTTGGTCGTA CTGTTTGGGGTGGGAA
>MED12_LsgRNA1140
AGCGGTTGGTCGTA CTGTTTGGGGTGGGAA
>MED12_LsgRNA1141
ACTTGTGTGGCCCTGGCAGGTGGGGGGCA
>MED12_LsgRNA1142
TTTGGTTTGCAATCATCTAAGTACTGGTCA
>MED12_LsgRNA1143
TTTGGTTTGCAATCATCTAAGTACTGGTCA
>MED12_LsgRNA1144
GTTCTAAACCCATGACGCCAGTCATGGTTG
>MED12_LsgRNA1145
GTTCTAAACCCATGACGCCAGTCATGGTTG
>MED12_LsgRNA1146
CCATTAACACTTGGTTCACTGACTTGGCTG
>MED12_LsgRNA1147
CCATTAACACTTGGTTCACTGACTTGGCTG
>MED12_LsgRNA1148
AGGGTAACAGTGCCTTCACTCAGCAGGTAT
>MED12_LsgRNA1149
AGGGTAACAGTGCCTTCACTCAGCAGGTAT
>MED12_LsgRNA1150
TCAATAACCAGCCTGCTGTCTCTGGGGATG
>MED12_LsgRNA1151
TCAATAACCAGCCTGCTGTCTCTGGGGATG
>MED12_LsgRNA1152
TCTGTA ACTGCTCCCATAAGTACTTGGTGA
>MED12_LsgRNA1153
TCTGTA ACTGCTCCCATAAGTACTTGGTGA
>MED12_LsgRNA1154
CTGGTAAGGCTGGCTGGAGTAGCTGGGGGG
>MED12_LsgRNA1155
CTGGTAAGGCTGGCTGGAGTAGCTGGGGGG
>MED12_LsgRNA1156
TAGTTAAGGTGTGTTATAGAACCAGGGTTT

>MED12_LsgRNA1157
TAGTTAAGGTGTGTTATAGAACCAGGGTTT
>MED12_LsgRNA1158
AGGATACAGCTGAGGCCAAAAACCAGGGGC
>MED12_LsgRNA1159
ATAGTACCTGGGGGATGGGAAAATGGGTGG
>MED12_LsgRNA1160
ATAGTACCTGGGGGATGGGAAAATGGGTGG
>MED12_LsgRNA1161
TGAATACTACCGCCAGGGCCTGCAGGAAG
>MED12_LsgRNA1162
TGAATACTACCGCCAGGGCCTGCAGGAAG
>MED12_LsgRNA1163
CCCCTACTATGCCCTGTGAGGGGAAGGGCA
>MED12_LsgRNA1164
CCCCTACTATGCCCTGTGAGGGGAAGGGCA
>MED12_LsgRNA1165
GCACTACTCAACACTGGGTCTTGCAGGTCA
>MED12_LsgRNA1166
GCACTACTCAACACTGGGTCTTGCAGGTCA
>MED12_LsgRNA1167
GCTATACTCCTTATGTTTCTCATGTGGGAT
>MED12_LsgRNA1168
GCTATACTCCTTATGTTTCTCATGTGGGAT
>MED12_LsgRNA1169
GATGTAGAGGTGGCAATCCGGCAGTGGGAT
>MED12_LsgRNA1170
GATGTAGAGGTGGCAATCCGGCAGTGGGAT
>MED12_LsgRNA1171
CCTTTAGCAGAGTCAGGGCATGTTGGGACA
>MED12_LsgRNA1172
CCTTTAGCAGAGTCAGGGCATGTTGGGACA
>MED12_LsgRNA1173
TGTCTAGCATCTCGCAAGGTAGCATGGAGG
>MED12_LsgRNA1174
TGTCTAGCATCTCGCAAGGTAGCATGGAGG
>MED12_LsgRNA1175
TTGCTAGGTCCCAATCCAAAGATTCGGTTA
>MED12_LsgRNA1176
TTGCTAGGTCCCAATCCAAAGATTCGGTTA
>MED12_LsgRNA1177
CGTGTAGGTGAAGGTGTGAGCTGCAGGGTT
>MED12_LsgRNA1178
CGTGTAGGTGAAGGTGTGAGCTGCAGGGTT

>MED12_LsgRNA1179
TGAGTAGTGCCAAACCAAGGCACTAGGACA
>MED12_LsgRNA1180
TGAGTAGTGCCAAACCAAGGCACTAGGACA
>MED12_LsgRNA1181
ACCCTAGTTCCAGTGTCTCTTTGAGGACA
>MED12_LsgRNA1182
ACCCTAGTTCCAGTGTCTCTTTGAGGACA
>MED12_LsgRNA1183
CTGCTAGTTGGGGGCTGAGGAGCAGGGGTG
>MED12_LsgRNA1184
TTTCTATTCTAGATTGTGAATAATTGGCGA
>MED12_LsgRNA1185
TTTCTATTCTAGATTGTGAATAATTGGCGA
>MED12_LsgRNA1186
GTCCTCAAAGAGAACACTGGAACACTAGGGTC
>MED12_LsgRNA1187
GTCCTCAAAGAGAACACTGGAACACTAGGGTC
>MED12_LsgRNA1188
ATCATCAAAGGGAGAGGGAGGCCGGGGACC
>MED12_LsgRNA1189
ATCATCAAAGGGAGAGGGAGGCCGGGGACC
>MED12_LsgRNA1190
CCCTTCAATCTTCTCCTTGGGTGGGGGCTT
>MED12_LsgRNA1191
CCCTTCAATCTTCTCCTTGGGTGGGGGCTT
>MED12_LsgRNA1192
ATCTTCAGCAGTGGGGAAGGCTTCAGGCCG
>MED12_LsgRNA1193
ATCTTCAGCAGTGGGGAAGGCTTCAGGCCG
>MED12_LsgRNA1194
ACCCTCAGGACCCCAAACAGAAGGAGGTGC
>MED12_LsgRNA1195
ACCCTCAGGACCCCAAACAGAAGGAGGTGC
>MED12_LsgRNA1196
AGGTTTCAGGCTTCACTGTGACAGGAGGAAC
>MED12_LsgRNA1197
AGGTTTCAGGCTTCACTGTGACAGGAGGAAC
>MED12_LsgRNA1198
CTTATCAGGTCTCCCGAATGTTCTGGAGC
>MED12_LsgRNA1199
CTTATCAGGTCTCCCGAATGTTCTGGAGC
>MED12_LsgRNA1200
TCACTCAGTACACCCCATACCTATCGGGAT

>MED12_LsgRNA1201
TCACTCAGTACACCCCATACCTATCGGGAT
>MED12_LsgRNA1202
TGGCTCAGTAGCGTCCAAATATGTTGGTAC
>MED12_LsgRNA1203
TGGCTCAGTAGCGTCCAAATATGTTGGTAC
>MED12_LsgRNA1204
GAGGTCAGTCCATGTCCATAGGTGGGGGCC
>MED12_LsgRNA1205
GAGGTCAGTCCATGTCCATAGGTGGGGGCC
>MED12_LsgRNA1206
TGGGTCATCGGCAGGATCATCAAAGGGAGA
>MED12_LsgRNA1207
ATCCTCATTGTCCAGCAGTCGATGTGGATA
>MED12_LsgRNA1208
ATCCTCATTGTCCAGCAGTCGATGTGGATA
>MED12_LsgRNA1209
CCAATCCAAAGATTCGGTTACAAAGGGAGT
>MED12_LsgRNA1210
CCAATCCAAAGATTCGGTTACAAAGGGAGT
>MED12_LsgRNA1211
GTTTTCCAACAGTCAGCAGAGACAGGGTCA
>MED12_LsgRNA1212
GTTTTCCAACAGTCAGCAGAGACAGGGTCA
>MED12_LsgRNA1213
TATTTCCACCCAGTTCAGCGCCAGGGGCT
>MED12_LsgRNA1214
TATTTCCACCCAGTTCAGCGCCAGGGGCT
>MED12_LsgRNA1215
GTAGTCCAGCAGCTACCTGGGGCTGGGACT
>MED12_LsgRNA1216
GTAGTCCAGCAGCTACCTGGGGCTGGGACT
>MED12_LsgRNA1217
GTTCTCCAGCTCTCTAGAGCGCTCTGGTGT
>MED12_LsgRNA1218
GTTCTCCAGCTCTCTAGAGCGCTCTGGTGT
>MED12_LsgRNA1219
AGGATCCAGGGCTCTCAGAATCTATGGACA
>MED12_LsgRNA1220
AGGATCCAGGGCTCTCAGAATCTATGGACA
>MED12_LsgRNA1221
GCACTCCAGGGTAAGTTGGTCGGGTGGGCA
>MED12_LsgRNA1222
GCACTCCAGGGTAAGTTGGTCGGGTGGGCA

>MED12_LsgRNA1223
AATGTCCATAGATTCTGAGAGCCCTGGATC
>MED12_LsgRNA1224
AATGTCCATAGATTCTGAGAGCCCTGGATC
>MED12_LsgRNA1225
CGGCTCCATCCACGATGCGGTTCTGGGAGG
>MED12_LsgRNA1226
CGGCTCCATCCACGATGCGGTTCTGGGAGG
>MED12_LsgRNA1227
GCCTTCCCCAGACAAGCCTACAGTAGGAAT
>MED12_LsgRNA1228
GTTCTCCCCTACTATGCCCTGTGAGGGGAA
>MED12_LsgRNA1229
GTTCTCCCCTACTATGCCCTGTGAGGGGAA
>MED12_LsgRNA1230
CCCTTCCCCTCACAGGGCATAGTAGGGGAG
>MED12_LsgRNA1231
CCCTTCCCCTCACAGGGCATAGTAGGGGAG
>MED12_LsgRNA1232
ACTGTCCCCTCAGGTGGGGAGGATGGGCAG
>MED12_LsgRNA1233
ACTGTCCCCTCAGGTGGGGAGGATGGGCAG
>MED12_LsgRNA1234
CATCTCCCGAGGGGACCTTGCTTTGGAGC
>MED12_LsgRNA1235
CATCTCCCGAGGGGACCTTGCTTTGGAGC
>MED12_LsgRNA1236
TGACTCCCTTTGTAACCGAATCTTTGGATT
>MED12_LsgRNA1237
TGACTCCCTTTGTAACCGAATCTTTGGATT
>MED12_LsgRNA1238
CGGCTCCTCATCTTCTGGGGCAGTGGCAG
>MED12_LsgRNA1239
CGGCTCCTCATCTTCTGGGGCAGTGGCAG
>MED12_LsgRNA1240
CTTTTCCTCCTTAGGCTTCACCATTGGACG
>MED12_LsgRNA1241
CTTTTCCTCCTTAGGCTTCACCATTGGACG
>MED12_LsgRNA1242
CTGCTCCTCTAACAATGGCACTTGTGGTTT
>MED12_LsgRNA1243
CTGCTCCTCTAACAATGGCACTTGTGGTTT
>MED12_LsgRNA1244
GGGGTCCTGAGGGTAAACATCGGGAGGCC

>MED12_LsgRNA1245
GGGGTCCTGAGGGTAAACATCGGGAGGCC
>MED12_LsgRNA1246
GGCTTCCTGCGACCAGTGTTCAGGAAGGGTA
>MED12_LsgRNA1247
GGCTTCCTGCGACCAGTGTTCAGGAAGGGTA
>MED12_LsgRNA1248
GACATCCTGGAAAATGGGAGCACTGGGAGC
>MED12_LsgRNA1249
GACATCCTGGAAAATGGGAGCACTGGGAGC
>MED12_LsgRNA1250
CACCTCCTTCTGTTTGGGGTCCCTGAGGGTA
>MED12_LsgRNA1251
CACCTCCTTCTGTTTGGGGTCCCTGAGGGTA
>MED12_LsgRNA1252
ACCCTCGAAGTGAGAGTGAGCGGGTGAAT
>MED12_LsgRNA1253
ACCCTCGAAGTGAGAGTGAGCGGGTGAAT
>MED12_LsgRNA1254
GAGATCGAGCAGCAGATCAAGGAGCGGGGA
>MED12_LsgRNA1255
GAGATCGAGCAGCAGATCAAGGAGCGGGGA
>MED12_LsgRNA1256
GGAGTCGAGGGTGTGCTGCTAGTTGGGGGC
>MED12_LsgRNA1257
GGAGTCGAGGGTGTGCTGCTAGTTGGGGGC
>MED12_LsgRNA1258
GGCGTCGTGAAGCATGGGATGAACCGGTCC
>MED12_LsgRNA1259
GGCGTCGTGAAGCATGGGATGAACCGGTCC
>MED12_LsgRNA1260
ATGGTCGTGTCTTCACAGTACTCTGGGGAA
>MED12_LsgRNA1261
ATGGTCGTGTCTTCACAGTACTCTGGGGAA
>MED12_LsgRNA1262
AGGCTCTAGCAGGGTAGGAGCAGGCGGCTC
>MED12_LsgRNA1263
AGGCTCTAGCAGGGTAGGAGCAGGCGGCTC
>MED12_LsgRNA1264
TCCTTCTCGACATCTGGCTTCTCAGGGGAT
>MED12_LsgRNA1265
TCCTTCTCGACATCTGGCTTCTCAGGGGAT
>MED12_LsgRNA1266
TGGGTCTGCTGAAGCCCCTGGCGCTGGAAC

>MED12_LsgRNA1267
TGGGTCTGCTGAAGCCCCTGGCGCTGGAAC
>MED12_LsgRNA1268
GCCATCTGGTCCTGGTTGAGGATGAGGCAG
>MED12_LsgRNA1269
GCCATCTGGTCCTGGTTGAGGATGAGGCAG
>MED12_LsgRNA1270
TCCTTCTTACTGAAAATGGGGACCTGGATG
>MED12_LsgRNA1271
CACCTCTTCCTTCTTACTGAAAATGGGGAC
>MED12_LsgRNA1272
CACCTCTTCCTTCTTACTGAAAATGGGGAC
>MED12_LsgRNA1273
CTCATCTTCTGGGGCAGTGGCAGTGGCTC
>MED12_LsgRNA1274
CTCATCTTCTGGGGCAGTGGCAGTGGCTC
>MED12_LsgRNA1275
CAAGTGAACCAGAAGGATAAATTCTGGCTG
>MED12_LsgRNA1276
CAAGTGAACCAGAAGGATAAATTCTGGCTG
>MED12_LsgRNA1277
ATCTTGAAGGTTCTGAACCGCAAAGGGACA
>MED12_LsgRNA1278
ATCTTGAAGGTTCTGAACCGCAAAGGGACA
>MED12_LsgRNA1279
GTTTTGAGAAGATCCGCCCTGGAGAGGATG
>MED12_LsgRNA1280
GTTTTGAGAAGATCCGCCCTGGAGAGGATG
>MED12_LsgRNA1281
CCCCTGAGAAGCCAGATGTTCGAGAAGGAGG
>MED12_LsgRNA1282
CCCCTGAGAAGCCAGATGTTCGAGAAGGAGG
>MED12_LsgRNA1283
TCAGTGAGCTCTTCACTACTGTGTTGGACA
>MED12_LsgRNA1284
TCAGTGAGCTCTTCACTACTGTGTTGGACA
>MED12_LsgRNA1285
GGATTGAGCTGCGGTGTCTTGAAAAGGTGA
>MED12_LsgRNA1286
CAGCTGAGGCCAAAAACCAGGGCCCGGTGC
>MED12_LsgRNA1287
CAGCTGAGGCCAAAAACCAGGGCCCGGTGC
>MED12_LsgRNA1288
CTCGTGATCTGCTCCAGAACATTCGGGAG

>MED12_LsgRNA1289
CTCGTGATCTGCTCCAGAACATTCGGGAG
>MED12_LsgRNA1290
AGTCTGCAAACCGTAGGAAGAGCTGGGAGT
>MED12_LsgRNA1291
AGTCTGCAAACCGTAGGAAGAGCTGGGAGT
>MED12_LsgRNA1292
TCTCTGCAATAATGCTGCTGAAGTTGGAAC
>MED12_LsgRNA1293
TCTCTGCAATAATGCTGCTGAAGTTGGAAC
>MED12_LsgRNA1294
ACTATGCAGCAATCTCTGAGACCAAGGTTA
>MED12_LsgRNA1295
ACTATGCAGCAATCTCTGAGACCAAGGTTA
>MED12_LsgRNA1296
CACCTGCAGGTAGTGGCTGGTTCTGGGTGT
>MED12_LsgRNA1297
CACCTGCAGGTAGTGGCTGGTTCTGGGTGT
>MED12_LsgRNA1298
ACATTGCAGGTCCGTGCAAAGTTGCGGGAG
>MED12_LsgRNA1299
ACATTGCAGGTCCGTGCAAAGTTGCGGGAG
>MED12_LsgRNA1300
CTTATGCATGAGGCACTCAAACCTGCGGCTC
>MED12_LsgRNA1301
CTTATGCATGAGGCACTCAAACCTGCGGCTC
>MED12_LsgRNA1302
GCCATGCCATCAAGAAAATCACCAAGGATA
>MED12_LsgRNA1303
GCCATGCCATCAAGAAAATCACCAAGGATA
>MED12_LsgRNA1304
GCAATGCCCTTATGCACGTCTGTGTGGGGC
>MED12_LsgRNA1305
GCAATGCCCTTATGCACGTCTGTGTGGGGC
>MED12_LsgRNA1306
ATCCTGCCGATGACCCAGAGCACAAGGAGG
>MED12_LsgRNA1307
ATCCTGCCGATGACCCAGAGCACAAGGAGG
>MED12_LsgRNA1308
ACAGTGCCGCTGATGATGATCTCCAGGAGG
>MED12_LsgRNA1309
ACAGTGCCGCTGATGATGATCTCCAGGAGG
>MED12_LsgRNA1310
ATCATGCCTGCCTCATCCTCAACCAGGACC

>MED12_LsgRNA1311
ATCATGCCTGCCTCATCCTCAACCAGGACC
>MED12_LsgRNA1312
ACAGTGCCTGTGATGCGGGCTGCCTGGCTC
>MED12_LsgRNA1313
ACAGTGCCTGTGATGCGGGCTGCCTGGCTC
>MED12_LsgRNA1314
AGAATGCGCTTTATGCGCTGCCGCTGGGGG
>MED12_LsgRNA1315
AGAATGCGCTTTATGCGCTGCCGCTGGGGG
>MED12_LsgRNA1316
TGACTGCTCACACCATCCAGCTGCAGGGCC
>MED12_LsgRNA1317
TGACTGCTCACACCATCCAGCTGCAGGGCC
>MED12_LsgRNA1318
GCCATGCTCATCCCCAGAGACAGCAGGCTG
>MED12_LsgRNA1319
GCCATGCTCATCCCCAGAGACAGCAGGCTG
>MED12_LsgRNA1320
TTGCTGCTCTACCACACACACCTGAGGCC
>MED12_LsgRNA1321
GACATGCTGAGCGTGCTCATCAATGGGACA
>MED12_LsgRNA1322
GACATGCTGAGCGTGCTCATCAATGGGACA
>MED12_LsgRNA1323
CTGTTGCTGCTGCTGCTGCTGCTCAGGTAG
>MED12_LsgRNA1324
CTGTTGCTGCTGCTGCTGCTGCTCAGGTAG
>MED12_LsgRNA1325
AGGCTGCTGGGGAAGAATTGGAGAAGGGTC
>MED12_LsgRNA1326
AGGCTGCTGGGGAAGAATTGGAGAAGGGTC
>MED12_LsgRNA1327
GGCCTGCTGGTGCACATAGCCACTGGGCCG
>MED12_LsgRNA1328
GGCCTGCTGGTGCACATAGCCACTGGGCCG
>MED12_LsgRNA1329
AAGCTGCTGTCTGTTGCTGCTGCTGGGTCT
>MED12_LsgRNA1330
AAGCTGCTGTCTGTTGCTGCTGCTGGGTCT
>MED12_LsgRNA1331
GACCTGCTTATGTGCCCTCAGCACCGGCC
>MED12_LsgRNA1332
GACCTGCTTATGTGCCCTCAGCACCGGCC

>MED12_LsgRNA1333
TGCCTGGACGCCCTGGGCACTCATTGGAGT
>MED12_LsgRNA1334
TGCCTGGACGCCCTGGGCACTCATTGGAGT
>MED12_LsgRNA1335
AGGTTGGACGGGGCAATAGGCAAGTGGTCA
>MED12_LsgRNA1336
AGGTTGGACGGGGCAATAGGCAAGTGGTCA
>MED12_LsgRNA1337
CCATTGGACGGGTACTTCATACTTTGGAAG
>MED12_LsgRNA1338
GGGATGGACTGCCCTTCCCCTCACAGGGCA
>MED12_LsgRNA1339
GGGATGGACTGCCCTTCCCCTCACAGGGCA
>MED12_LsgRNA1340
CCTATGGAGCCTTGCCTGTAGTTAAGGTGT
>MED12_LsgRNA1341
CCTATGGAGCCTTGCCTGTAGTTAAGGTGT
>MED12_LsgRNA1342
TCATTGGAGTCATGGTACTTATCATGGGTG
>MED12_LsgRNA1343
TCATTGGAGTCATGGTACTTATCATGGGTG
>MED12_LsgRNA1344
TGGCTGGCACTCACCTGCAGGTAGTGGCTG
>MED12_LsgRNA1345
TGGCTGGCACTCACCTGCAGGTAGTGGCTG
>MED12_LsgRNA1346
GCAGTGGCAGTGGCTCCAGGTAATAGGCGC
>MED12_LsgRNA1347
GCAGTGGCAGTGGCTCCAGGTAATAGGCGC
>MED12_LsgRNA1348
GAGGTGGCAGTGGTGGTTCGGAGGCAGGGTG
>MED12_LsgRNA1349
GAGGTGGCAGTGGTGGTTCGGAGGCAGGGTG
>MED12_LsgRNA1350
AGCATGGCCCACTCCGTGGTCTGCTGGGTG
>MED12_LsgRNA1351
AGCATGGCCCACTCCGTGGTCTGCTGGGTG
>MED12_LsgRNA1352
CTGTTGGCGAAGGCGCTGTCCTTGGGGCAC
>MED12_LsgRNA1353
CTGTTGGCGAAGGCGCTGTCCTTGGGGCAC
>MED12_LsgRNA1354
CCGATGGCTCCACGTTGCAGTAGATGGTGT

>MED12_LsgRNA1355
CCGATGGCTCCACGTTGCAGTAGATGGTGT
>MED12_LsgRNA1356
GCAGTGGCTCCAGGTAATAGGCGGGGGCC
>MED12_LsgRNA1357
GCAGTGGCTCCAGGTAATAGGCGGGGGCC
>MED12_LsgRNA1358
AAGATGGCTGAATACTACCGGCCAGGGCCT
>MED12_LsgRNA1359
AAGATGGCTGAATACTACCGGCCAGGGCCT
>MED12_LsgRNA1360
GGGCTGGGACTGGGGCTGGGGTTGGGGAGG
>MED12_LsgRNA1361
GGGCTGGGACTGGGGCTGGGGTTGGGGAGG
>MED12_LsgRNA1362
GGGCTGGGCAAGATGGCGGCCTTCGGGATC
>MED12_LsgRNA1363
GGGCTGGGCAAGATGGCGGCCTTCGGGATC
>MED12_LsgRNA1364
GAGGTGGGCAGTTTAGCAATGAGGGGGGCC
>MED12_LsgRNA1365
GAGGTGGGCAGTTTAGCAATGAGGGGGGCC
>MED12_LsgRNA1366
CCACTGGGCCGCTGTTGCAGGTGGCGGGTA
>MED12_LsgRNA1367
CCACTGGGCCGCTGTTGCAGGTGGCGGGTA
>MED12_LsgRNA1368
TGTGTGGGGCACCATGATCCCGATAGGTAT
>MED12_LsgRNA1369
TGTGTGGGGCACCATGATCCCGATAGGTAT
>MED12_LsgRNA1370
ATCATGGGTGTCTGCTGCAGTGTCTGGTGT
>MED12_LsgRNA1371
ATCATGGGTGTCTGCTGCAGTGTCTGGTGT
>MED12_LsgRNA1372
GGATTGGTAGAAGGGTGGGTGCTCTGGTAA
>MED12_LsgRNA1373
GGATTGGTAGAAGGGTGGGTGCTCTGGTAA
>MED12_LsgRNA1374
TCGCTGGTGCTAACATGTCTGAAAGGGCAG
>MED12_LsgRNA1375
TCGCTGGTGCTAACATGTCTGAAAGGGCAG
>MED12_LsgRNA1376
GCTGTGGTGTCAATTGCTATGTGAATGGGCT

>MED12_LsgRNA1377
GCTGTGGTGTTCATTGCTATGTGAATGGGCT
>MED12_LsgRNA1378
GTCATGGTTGTGGGCAGCACTCCAGGGTAA
>MED12_LsgRNA1379
GTCATGGTTGTGGGCAGCACTCCAGGGTAA
>MED12_LsgRNA1380
CCTTTGTAACCGAATCTTTGGATTGGGACC
>MED12_LsgRNA1381
CCTTTGTAACCGAATCTTTGGATTGGGACC
>MED12_LsgRNA1382
ACGTTGTAATACCCTTCCTGACACTGGTTCG
>MED12_LsgRNA1383
ACGTTGTAATACCCTTCCTGACACTGGTTCG
>MED12_LsgRNA1384
GAGATGTCATCACGTGTGAGCCACAGGGCT
>MED12_LsgRNA1385
GAGATGTCATCACGTGTGAGCCACAGGGCT
>MED12_LsgRNA1386
TTGCTGTCCTCACACAGAGACTTAAGGCAA
>MED12_LsgRNA1387
TTGCTGTCCTCACACAGAGACTTAAGGCAA
>MED12_LsgRNA1388
TTCCTGTGCCTGCAGAAGGAGTTGGGGGAG
>MED12_LsgRNA1389
TTCCTGTGCCTGCAGAAGGAGTTGGGGGAG
>MED12_LsgRNA1390
AGGCTGTGTGGCGTCGTGAAGCATGGGATG
>MED12_LsgRNA1391
AGGCTGTGTGGCGTCGTGAAGCATGGGATG
>MED12_LsgRNA1392
AAGGTGTGTTATAGAACCAGGGTTTGGGTG
>MED12_LsgRNA1393
AAGGTGTGTTATAGAACCAGGGTTTGGGTG
>MED12_LsgRNA1394
GCACTGTTACCCTCTGGCATGGGCAGGTTG
>MED12_LsgRNA1395
GCACTGTTACCCTCTGGCATGGGCAGGTTG
>MED12_LsgRNA1396
GACATGTTAGCACCAGCGATAAGAAGGGCT
>MED12_LsgRNA1397
GACATGTTAGCACCAGCGATAAGAAGGGCT
>MED12_LsgRNA1398
ATCTTGTTGCCCTTGGTATCGATAAGGGAG

>MED12_LsgRNA1399
ATCTTGTGCCCTTGGTATCGATAAGGGAG
>MED12_LsgRNA1400
AATATGTTGGTACTGGGCTGTGGCTGGGTA
>MED12_LsgRNA1401
AATATGTTGGTACTGGGCTGTGGCTGGGTA
>MED12_LsgRNA1402
CAGTTTAAGCAATTCATCCTCTCCAGGGCG
>MED12_LsgRNA1403
CAGTTTAAGCAATTCATCCTCTCCAGGGCG
>MED12_LsgRNA1404
GTAGTTAAGGTGTGTTATAGAACCAGGGTT
>MED12_LsgRNA1405
GTAGTTAAGGTGTGTTATAGAACCAGGGTT
>MED12_LsgRNA1406
CTGCTTACCTGCAACTTCTTCGCCAGGTTC
>MED12_LsgRNA1407
CTGCTTACCTGCAACTTCTTCGCCAGGTTC
>MED12_LsgRNA1408
TCACTTACTTCCATCAGACTGGCAAGGATT
>MED12_LsgRNA1409
TCACTTACTTCCATCAGACTGGCAAGGATT
>MED12_LsgRNA1410
CCCTTTAGCAGAGTCAGGGCATGTTGGGAC
>MED12_LsgRNA1411
TGTGTTATAGAACCAGGGTTTGGGTGGTGC
>MED12_LsgRNA1412
TGTGTTATAGAACCAGGGTTTGGGTGGTGC
>MED12_LsgRNA1413
GAAGTTATCCTTCTGGTTCACTTGGGGCTT
>MED12_LsgRNA1414
GAAGTTATCCTTCTGGTTCACTTGGGGCTT
>MED12_LsgRNA1415
GCCCTTATGGTGTGACAGTGCCTCCGGACC
>MED12_LsgRNA1416
GCCCTTATGGTGTGACAGTGCCTCCGGACC
>MED12_LsgRNA1417
TCCCTTCAATCTTCTCCTTGGGTGGGGGCT
>MED12_LsgRNA1418
TCCCTTCAATCTTCTCCTTGGGTGGGGGCT
>MED12_LsgRNA1419
GGGCTTACCTCCTTCTCGACATCTGGCTT
>MED12_LsgRNA1420
GGGCTTACCTCCTTCTCGACATCTGGCTT

>MED12_LsgRNA1421
CTATTTCCACCCAGTTCCAGCGCCAGGGGC
>MED12_LsgRNA1422
CTATTTCCACCCAGTTCCAGCGCCAGGGGC
>MED12_LsgRNA1423
GCCCTTCCCCTCACAGGGCATAGTAGGGGA
>MED12_LsgRNA1424
GCCCTTCCCCTCACAGGGCATAGTAGGGGA
>MED12_LsgRNA1425
CGGATTCCTACTGTAGGCTTGTCTGGGGAA
>MED12_LsgRNA1426
CGGATTCCTACTGTAGGCTTGTCTGGGGAA
>MED12_LsgRNA1427
GGTGTTCGTAGCTCAAGATCCCGAAGGCCG
>MED12_LsgRNA1428
GGTGTTCGTAGCTCAAGATCCCGAAGGCCG
>MED12_LsgRNA1429
TATGTTCTATGCCCTCAGGATCCAGGGCTC
>MED12_LsgRNA1430
TATGTTCTATGCCCTCAGGATCCAGGGCTC
>MED12_LsgRNA1431
CTTTTTCTCAGGCTCTAGCAGGGTAGGAGC
>MED12_LsgRNA1432
CTTTTTCTCAGGCTCTAGCAGGGTAGGAGC
>MED12_LsgRNA1433
TCTTTTCTCCCTTTAGCAGAGTCAGGGCAT
>MED12_LsgRNA1434
TCTTTTCTCCCTTTAGCAGAGTCAGGGCAT
>MED12_LsgRNA1435
CTCCTTCTCGACATCTGGCTTCTCAGGGGA
>MED12_LsgRNA1436
CTCCTTCTCGACATCTGGCTTCTCAGGGGA
>MED12_LsgRNA1437
CAGCTTCTGCATTGGTAAGCGCACAGGACG
>MED12_LsgRNA1438
CAGCTTCTGCATTGGTAAGCGCACAGGACG
>MED12_LsgRNA1439
CTTCTTCTTGCCTCCTCAGTACTGGGTGG
>MED12_LsgRNA1440
CTTCTTCTTGCCTCCTCAGTACTGGGTGG
>MED12_LsgRNA1441
TATCTTGAAGGTTCTGAACCGCAAAGGGAC
>MED12_LsgRNA1442
TATCTTGAAGGTTCTGAACCGCAAAGGGAC

>MED12_LsgRNA1443
ATCTTTGCCTGGAGCTGTTGGCGAAGGCGC
>MED12_LsgRNA1444
ATCTTTGCCTGGAGCTGTTGGCGAAGGCGC
>MED12_LsgRNA1445
AACGTTGCCTTAAGTCTCTGTGTGAGGACA
>MED12_LsgRNA1446
AACGTTGCCTTAAGTCTCTGTGTGAGGACA
>MED12_LsgRNA1447
CTTCTTGCGTTCCTCAGTACTGGGTGGAGC
>MED12_LsgRNA1448
CTTCTTGCGTTCCTCAGTACTGGGTGGAGC
>MED12_LsgRNA1449
TCATTTGCTATCCACATCGACTGCTGGACA
>MED12_LsgRNA1450
TCATTTGCTATCCACATCGACTGCTGGACA
>MED12_LsgRNA1451
CAGGTTGCTGCTGCCGGTACACAGAGGTCT
>MED12_LsgRNA1452
CAGGTTGCTGCTGCCGGTACACAGAGGTCT
>MED12_LsgRNA1453
TGGTTTGGAACAGTCCGAGTGGACCGGCGA
>MED12_LsgRNA1454
TGGTTTGGAACAGTCCGAGTGGACCGGCGA
>MED12_LsgRNA1455
AGAATTGGAGAAGGGTCAGCACCTGGGTTC
>MED12_LsgRNA1456
AGAATTGGAGAAGGGTCAGCACCTGGGTTC
>MED12_LsgRNA1457
GCTGTTGGCGAAGGCGCTGTCCCTTGGGGCA
>MED12_LsgRNA1458
GCTGTTGGCGAAGGCGCTGTCCCTTGGGGCA
>MED12_LsgRNA1459
CAGATTGGTAGTTCACCAGCATTAAAGGAGT
>MED12_LsgRNA1460
CAGATTGGTAGTTCACCAGCATTAAAGGAGT
>MED12_LsgRNA1461
GCGGTTGGTCGTACTIONGTTTGGGGTGGGAAA
>MED12_LsgRNA1462
GCGGTTGGTCGTACTIONGTTTGGGGTGGGAAA
>MED12_LsgRNA1463
CTGATTGTCAGCTTCCTCAGGAATGGGTAG
>MED12_LsgRNA1464
CTGATTGTCAGCTTCCTCAGGAATGGGTAG

>MED12_LsgRNA1465
 CTCCTTGTGCTCTGGGTCATCGGCAGGATC
 >MED12_LsgRNA1466
 CTCCTTGTGCTCTGGGTCATCGGCAGGATC
 >MED12_LsgRNA1467
 GGCCTTGTGCTGCTCCTCTAACAATGGCAC
 >MED12_LsgRNA1468
 GGCCTTGTGCTGCTCCTCTAACAATGGCAC
 >MED12_LsgRNA1469
 CTTGTTGTGGCCCTGGCAGGTGGGGGGCAT
 >MED12_LsgRNA1470
 CTTGTTGTGGCCCTGGCAGGTGGGGGGCAT
 >MED12_LsgRNA1471
 CATGTTTCTATCCGACCTGAGCACAGGCTT
 >MED12_LsgRNA1472
 CATGTTTCTATCCGACCTGAGCACAGGCTT
 >MED12_LsgRNA1473
 CTCTTTTCTCCCTTTAGCAGAGTCAGGGCA
 >MED12_LsgRNA1474
 CTCTTTTCTCCCTTTAGCAGAGTCAGGGCA
 >MED12_LsgRNA1475
 AGGGTTTGGGTGGTGCAGGAGGTCCGGAGG
 >MED12_LsgRNA1476
 AGGGTTTGGGTGGTGCAGGAGGTCCGGAGG
 >MED12_LsgRNA1477
 CAAATTTGTTCTTTAAATGGCTACAGGAGG
 >MED12_LsgRNA1478
 CAAATTTGTTCTTTAAATGGCTACAGGAGG

(23) S_6^- : 152 low on-target activity sgRNAs targeting TADA2B

>TADA2B_LsgRNA1
 AACAAAAACCTAGCCGGCTCCAAACGGGGA
 >TADA2B_LsgRNA2
 ACAAAAACCTAGCCGGCTCCAAACGGGGAA
 >TADA2B_LsgRNA3
 CAAAAACCTAGCCGGCTCCAAACGGGGAAA
 >TADA2B_LsgRNA4
 CCAAAAAGCCGCCTTCCTAGCTACCTGGACA
 >TADA2B_LsgRNA5
 GAGGAAGGAGAACAAAAACCTAGCCGGCTC
 >TADA2B_LsgRNA6
 CTACAATCTGGTGCCAGCCTTCCTGGGGAA
 >TADA2B_LsgRNA7
 TCTGACAGGAGCTCGAAGCCTGGAAGGTTTC

>TADA2B_LsgRNA8
GAGTACGAGGCAGCGCGGCATAAACGGGAG
>TADA2B_LsgRNA9
TGTCACGCGGTTGGGGATGGTGTCTCGGGAT
>TADA2B_LsgRNA10
GTGGACGGCGGGCGCTTACGCTCTGGGGG
>TADA2B_LsgRNA11
TCAAACTCCTTGCATGACATGAACTGGTAC
>TADA2B_LsgRNA12
TCACAGAAAGCGGCTGGATCTCCAGGGACG
>TADA2B_LsgRNA13
ACAGAGATGTCCAGCGGGGCAGCGGGGTG
>TADA2B_LsgRNA14
ATCGAGCAGTTCGGCTTCGAAACTGGGTG
>TADA2B_LsgRNA15
ACCTAGCCGGCTCCAAACGGGGAAAGGAGG
>TADA2B_LsgRNA16
TGGTAGCCGTGGTAGCGGCGGTGGTGGCCG
>TADA2B_LsgRNA17
GTGAAGCGCCCGCCGTCCACCAGCTGGTAG
>TADA2B_LsgRNA18
CAGCAGCTGGGCTACATGCCGCTGCGGGAT
>TADA2B_LsgRNA19
CTTTAGGACTTTGTCCAGGTAGCTAGGAAG
>TADA2B_LsgRNA20
GAGAAGGAGCTGCGCCTGAAGCTGAGGCCG
>TADA2B_LsgRNA21
ATGCAGGCCTTCCCCAGGTTCCCGTGGATG
>TADA2B_LsgRNA22
TTGGAGGGGATTCTTGCCGCTTCTGGAGG
>TADA2B_LsgRNA23
CTCGATCTCGTAATCATCCCCGAGCGGCAT
>TADA2B_LsgRNA24
TACAACTCTGGTGCCAGCCTTCTGGGGAAG
>TADA2B_LsgRNA25
GAGCATGTACATCCACGGGAACCTGGGGAA
>TADA2B_LsgRNA26
TTGAATTTCTCACAGAAAGCGGCTGGATC
>TADA2B_LsgRNA27
CTGTCAACTATGATGACGACGACGTGGAGA
>TADA2B_LsgRNA28
AGCGCAAGATCACCAAGGAGGAGAAGGAGC
>TADA2B_LsgRNA29
ACTACAATCTGGTGCCAGCCTTCTGGGGA

>TADA2B_LsgRNA30
GCCTCACCACCCCGCTGCCCCGCTGGACA
>TADA2B_LsgRNA31
CTGTCACGCGGTTGGGGATGGTGTCTGGGGA
>TADA2B_LsgRNA32
CTACCACGGCTACCAGCTGGTGGACGGCGG
>TADA2B_LsgRNA33
CTCACAGAAAGCGGCTGGATCTCCAGGGAC
>TADA2B_LsgRNA34
CCAGCAGCAGCTGCTCCTCGCGACTGGTCC
>TADA2B_LsgRNA35
GGCACAGCTCGATGTCCTGGCACTCGGTGC
>TADA2B_LsgRNA36
GCTCCATCACCTCTTGGGGAGTCCGGGAAG
>TADA2B_LsgRNA37
TGTACATCCACGGGAACCTGGGGAAGGCCT
>TADA2B_LsgRNA38
AGAACATCGCCCGTACTACAATCTGGTGC
>TADA2B_LsgRNA39
TGAGCATGTACATCCACGGGAACCTGGGGA
>TADA2B_LsgRNA40
TCCACCAGCTGGTAGCCGTGGTAGCGGCGG
>TADA2B_LsgRNA41
TGCTCCATCACCTCTTGGGGAGTCCGGGAA
>TADA2B_LsgRNA42
ACCGCCGCTACCACGGCTACCAGCTGGTGG
>TADA2B_LsgRNA43
GGTACCGCTGCAGTTCTCGGATCTTGGCCC
>TADA2B_LsgRNA44
CTTCCCGACTCCCCAAGAGGTGATGGAGC
>TADA2B_LsgRNA45
AGATCGAGCTGAAGCGCGCCACGTGGACA
>TADA2B_LsgRNA46
AGTACGAGGCAGCGCGGCATAAACGGGAGA
>TADA2B_LsgRNA47
TCGGCGCCGGCCGAGAAGCACTCGGGGCAC
>TADA2B_LsgRNA48
GCAGCGCGGCATAAACGGGAGAAGAGGAAG
>TADA2B_LsgRNA49
GTCACGCGGTTGGGGATGGTGTCTGGGGATG
>TADA2B_LsgRNA50
GAGTCGGCAGAGTACGAGGCAGCGCGGCAT
>TADA2B_LsgRNA51
TGGACGGCGGGCGCTTACGCTCTGGGGGC

>TADA2B_LsgRNA52
TAGCCGGCTCCAAACGGGGAAAGGAGGACG
>TADA2B_LsgRNA53
GTGTCTGGGGATGCAGGCCTTCCCCAGGTTC
>TADA2B_LsgRNA54
CACTCGGGGCACAGCTCGATGTCTTGGCAC
>TADA2B_LsgRNA55
CGAGCGGGGAAGATGGCGGAGCTGGGGAA
>TADA2B_LsgRNA56
CACTCGGTGCAGCGGAAGCGCAGCGGGCTC
>TADA2B_LsgRNA57
CTCACGTAATGCTCCATCACCTCTTGGGGA
>TADA2B_LsgRNA58
CCGCCGTCCACCAGCTGGTAGCCGTGGTAG
>TADA2B_LsgRNA59
GCCGCTACCACGGCTACCAGCTGGTGGACG
>TADA2B_LsgRNA60
CGTCTCCTTTCCCCGTTTGGAGCCGGCTA
>TADA2B_LsgRNA61
CGTACTCTGCCGACTCTTCCATCTTGGTGA
>TADA2B_LsgRNA62
CACGCTCTGGGGGCCCGAGGCCGAGGGCGG
>TADA2B_LsgRNA63
AGAAGTGCAGCGGTACCGCGAAACGGGAT
>TADA2B_LsgRNA64
ATGGCTGCCCACGTTGGTGCTTCCCGGACT
>TADA2B_LsgRNA65
AAGGCTGGCACCAGATTGTAGTCACGGGCG
>TADA2B_LsgRNA66
TGCGCTTCCGCTGCACCGAGTGCCAGGACA
>TADA2B_LsgRNA67
CAGCCTTCTTGGGAAGGACAAGAAGGAGA
>TADA2B_LsgRNA68
TCTCCTTCTTGTCTTCCCCAGGAAGGCTG
>TADA2B_LsgRNA69
AGGACTTTGTCCAGGTAGCTAGGAAGGCGG
>TADA2B_LsgRNA70
GTAGGAAGATATGGCTGCCACGTTGGTGC
>TADA2B_LsgRNA71
GCTCGAAGCCTGGAAGGTTCTCAATGGCGG
>TADA2B_LsgRNA72
CGCTGAAGCGCAAGATCACCAAGGAGGAGA
>TADA2B_LsgRNA73
GGAAGAAGTACTGCGTGTACTGCCTGGCCG

>TADA2B_LsgRNA74
GACAGACCACACCTGTCCCAGCGGAGGCC
>TADA2B_LsgRNA75
TAAAGACCACCTCCAGAAGCGGCAAGGAAT
>TADA2B_LsgRNA76
CACAGAGATGTCCAGCGGGGCAGCGGGGT
>TADA2B_LsgRNA77
GTGAGAGGGGGCCTCCGCTGGGACAGGTGT
>TADA2B_LsgRNA78
TGGGGAGTCCGGAAGCACCAACGTGGGCA
>TADA2B_LsgRNA79
ACGGGATCACCAAGATGGAAGAGTCGGCAG
>TADA2B_LsgRNA80
CAGAGATGTCCAGCGGGGCAGCGGGTGG
>TADA2B_LsgRNA81
ACATGCACAAAGAAAAAATGCTCCGGGCCA
>TADA2B_LsgRNA82
CGCGGCATAAACGGGAGAAGAGGAAGGAGA
>TADA2B_LsgRNA83
GGACGCCATCGAGCAGTTCGGCTTCGGAAA
>TADA2B_LsgRNA84
CGCTGCCCCGCTGGACATCTCTGTGGCTG
>TADA2B_LsgRNA85
GTTTCGCCCATTTGAGAACCTTCCAGGCTT
>TADA2B_LsgRNA86
CTTTGCCGTCCTCCTTTCCCGTTTGGAGC
>TADA2B_LsgRNA87
CGAAGCCTGGAAGGTTCTCAATGGCGGCGA
>TADA2B_LsgRNA88
ACCGGCGAAACGGGATCACCAAGATGGAAG
>TADA2B_LsgRNA89
CCTCGCGACTGGTCCAGCCGCCCTCGGCCT
>TADA2B_LsgRNA90
TCAGGCGCAGCTCCTTCTCCTCCTTGGTGA
>TADA2B_LsgRNA91
CTCGGCGCCGGCCGAGAAGCACTCGGGGCA
>TADA2B_LsgRNA92
GACGGCGGGCGCTTCACGCTCTGGGGGCC
>TADA2B_LsgRNA93
GCGAGCGGGGAAGATGGCGGAGCTGGGGA
>TADA2B_LsgRNA94
TCCAGCGGGGCAGCGGGGTGGTGAGGCTG
>TADA2B_LsgRNA95
TCGAGCTCCTGTCAGATCGCGAGAAGGTGC

>TADA2B_LsgRNA96
TCACGCTCTGGGGGCCCGAGGCCGAGGGCG
>TADA2B_LsgRNA97
AGGCGCTGAAGCGCAAGATCACCAAGGAGG
>TADA2B_LsgRNA98
AGCAGCTGGGCTACATGCCGCTGCGGGATG
>TADA2B_LsgRNA99
ACCAGCTGGTAGCCGTGGTAGCGGCGGTGG
>TADA2B_LsgRNA100
TCGAGCTGTGCCCCGAGTGCTTCTCGGCCG
>TADA2B_LsgRNA101
AGATGGAAGAGTCGGCAGAGTACGAGGCAG
>TADA2B_LsgRNA102
GGAAGGACAAGAAGGAGAAGGAAAAGGCCG
>TADA2B_LsgRNA103
GAGGGGATTCCTTGCCGCTTCTGGAGGTGG
>TADA2B_LsgRNA104
GATCGGCCACCACCGCCGCTACCACGGCTA
>TADA2B_LsgRNA105
TGGGGGCCCGAGGCCGAGGGCGGCTGGACC
>TADA2B_LsgRNA106
AGGGGGCCTCCGCTGGGACAGGTGTGGTCT
>TADA2B_LsgRNA107
TCTCGGCGCCGGCCGAGAAGCACTCGGGGC
>TADA2B_LsgRNA108
GGACGGCGGGCGCTTACGCTCTGGGGGCC
>TADA2B_LsgRNA109
CCACGGCTACCAGCTGGTGGACGGCGGGCG
>TADA2B_LsgRNA110
GCGGGGGCAGCGGGGTGGTGAGGCTGGGTG
>TADA2B_LsgRNA111
CCGAGGGCGGCTGGACCAGTCGCGAGGAGC
>TADA2B_LsgRNA112
GGTTGGGGATGGTGTGCGGGATGCAGGCCT
>TADA2B_LsgRNA113
GAGCGGGGAAGATGGCGGAGCTGGGGAAG
>TADA2B_LsgRNA114
GGCTGGGTGAGAGGGGGCCTCCGCTGGGAC
>TADA2B_LsgRNA115
AGCGGGGTGGTGAGGCTGGGTGAGAGGGGG
>TADA2B_LsgRNA116
AACTGGTACAGCGGCCTCAGCTTCAGGCCG
>TADA2B_LsgRNA117
AGCTGGTAGCCGTGGTAGCGGCGGTGGTGG

>TADA2B_LsgRNA118
GACTGGTCCAGCCGCCCTCGGCCTCGGGCC
>TADA2B_LsgRNA119
GCTGGGTGAGAGGGGGCCTCCGCTGGGACA
>TADA2B_LsgRNA120
ATCTGGTGCCAGCCTTCCTGGGGAAGGACA
>TADA2B_LsgRNA121
GCGGGGTGGTGGGCTGGGTGAGAGGGGGC
>TADA2B_LsgRNA122
GACAGGTGTGGTCTGTACGCGGTTGGGGA
>TADA2B_LsgRNA123
TCACGTAATGCTCCATCACCTCTTGGGGAG
>TADA2B_LsgRNA124
CCAGGTAGCTAGGAAGGCGGCTTTTGGAGG
>TADA2B_LsgRNA125
ACTGGTCCAGCCGCCCTCGGCCTCGGGCCC
>TADA2B_LsgRNA126
TGTGGTCTGTACGCGGTTGGGGATGGTGT
>TADA2B_LsgRNA127
CGGGGTGGTGGGCTGGGTGAGAGGGGGCC
>TADA2B_LsgRNA128
GGCGGTGGTGGCCGATCTCGGCGCCGGCCG
>TADA2B_LsgRNA129
ACAGGTGTGGTCTGTACGCGGTTGGGGAT
>TADA2B_LsgRNA130
ATAATAGTCTTCACAGTCACGTAGCGGGCT
>TADA2B_LsgRNA131
CTGCTCAGCCACAGAGATGTCCAGCGGGGG
>TADA2B_LsgRNA132
CGTCTCAGCTTCAAGACGCGTCCCTGGAGA
>TADA2B_LsgRNA133
CGGCTCCAAACGGGGAAAGGAGGACGGCAA
>TADA2B_LsgRNA134
AAGATCCGAGAACTGCAGCGGTACCGGCGA
>TADA2B_LsgRNA135
CCAGTCGCGAGGAGCAGCTGCTGCTGGACG
>TADA2B_LsgRNA136
GCGATCTGACAGGAGCTCGAAGCCTGGAAG
>TADA2B_LsgRNA137
TCCATCTTGGTGATCCCGTTTCGCCGGTAC
>TADA2B_LsgRNA138
AACATGCACAAAGAAAAAATGCTCCGGGCC
>TADA2B_LsgRNA139
GAACTGCAGCGGTACCGGCGAAACGGGATC

>TADA2B_LsgRNA140
 GCTGTGCCCCGAGTGCTTCTCGGCCGGCGC
 >TADA2B_LsgRNA141
 TACCTGGACAAAGTCCTAAAGAAAAGGATT
 >TADA2B_LsgRNA142
 GCTCTGGGGGCCCGAGGCCGAGGGCGGCTG
 >TADA2B_LsgRNA143
 ACTTTGTCCAGGTAGCTAGGAAGGCGGCTT
 >TADA2B_LsgRNA144
 TCTCTGTGGCTGAGCAGCAGCAGCTGGGCT
 >TADA2B_LsgRNA145
 CAGGTGTGGTCTGTCACGCGGTTGGGGATG
 >TADA2B_LsgRNA146
 ATAATTAAAGACCACCTCCAGAAGCGGCAA
 >TADA2B_LsgRNA147
 ATGATTACGAGATCGAGTATGACCAGGATG
 >TADA2B_LsgRNA148
 TCCTTTCCCCGTTTGGAGCCGGCTAGGTTT
 >TADA2B_LsgRNA149
 GGGATTCCTTGCCGCTTCTGGAGGTGGTCT
 >TADA2B_LsgRNA150
 GTGCTTCTCGGCCGGCGCCGAGATCGGCCA
 >TADA2B_LsgRNA151
 GATTTTGAATTTCTCACAGAAAGCGGCTG
 >TADA2B_LsgRNA152
 CTTCTTGTCTTCCCCAGGAAGGCTGGCAC

(24) S₇: 87 low on-target activity sgRNAs targeting TADA1

>TADA1_LsgRNA1
 TTCAAAAAGATCGTACATGTTACCCGGAGG
 >TADA1_LsgRNA2
 AAGGAAAGCTTATCGGTTACGAGATGGTCA
 >TADA1_LsgRNA3
 ATTGAAAGGATCATCACGAAACTCTGGCAT
 >TADA1_LsgRNA4
 TTGTAAGCTACTACACTATTCTTCAGGTAT
 >TADA1_LsgRNA5
 CACAAATTGCTGGGCTCCTGAGAGAGGATT
 >TADA1_LsgRNA6
 CCACACAATGATGCTTCCCACTCGAGGCCA
 >TADA1_LsgRNA7
 AGCTACTACACTATTCTTCAGGTATGGCTG
 >TADA1_LsgRNA8
 TCATAGACTTCTCACACAGGATAATGGTAA

>TADA1_LsgRNA9
AAAAAGATCGTACATGTTACCCGAGGCAA
>TADA1_LsgRNA10
GCAAAGATGCAGGTAGAGTGTCTCCGGAGC
>TADA1_LsgRNA11
CCGCAGCAAAACCTGGAAAACCCAAGGGAA
>TADA1_LsgRNA12
CAGGAGCCCAGCAATTTGTGGCAAAGGATC
>TADA1_LsgRNA13
CGCCAGCGCTTGGCAGCCAAGGAGGGGCTT
>TADA1_LsgRNA14
TTGAAGCTCATAGACTTCTCACACAGGATA
>TADA1_LsgRNA15
GAGAAGCTGGATTCTGACCAGCACAGGGAG
>TADA1_LsgRNA16
GCACAGGGAGCAGTAAAAGCTGGAGGGCTG
>TADA1_LsgRNA17
CTCGAGTGGGAAGCATCATTGTGTGGGAAC
>TADA1_LsgRNA18
GGGGATCCTTTGCCACAAATTGCTGGGCTC
>TADA1_LsgRNA19
CTAGATGGTGCTGGATCTTTGCCTTGGCCA
>TADA1_LsgRNA20
CACTATTCTTCAGGTATGGCTGCGGGGTCA
>TADA1_LsgRNA21
AAGACAAAGTTCACCGCCAGCGCTTGGCAG
>TADA1_LsgRNA22
ATTCCAGCCTCAAATCCTCTCTCAGGAGC
>TADA1_LsgRNA23
CCGCCAGCGCTTGGCAGCCAAGGAGGGGCT
>TADA1_LsgRNA24
AGCACAGGGAGCAGTAAAAGCTGGAGGGCT
>TADA1_LsgRNA25
CTTCCCACTCGAGGCCAGCTTGAAGGGAGA
>TADA1_LsgRNA26
ACCGCCAGCGCTTGGCAGCCAAGGAGGGGC
>TADA1_LsgRNA27
GCTTCCCACTCGAGGCCAGCTTGAAGGGAG
>TADA1_LsgRNA28
CACCCCCTGATGATGCTGAGCAGCAGGCTG
>TADA1_LsgRNA29
TTCTCCCTTCAAGCTGGCCTCGAGTGGGAA
>TADA1_LsgRNA30
TTCACCGCCAGCGCTTGGCAGCCAAGGAGG

>TADA1_LsgRNA31
AGCCCCCTCCTTGGCTGCCAAGCGCTGGCGG
>TADA1_LsgRNA32
GCAGCCTGCTGCTCAGCATCATCAGGGGGT
>TADA1_LsgRNA33
TCTCCCTTCAAGCTGGCCTCGAGTGGGAAG
>TADA1_LsgRNA34
CCCTCCTTGGCTGCCAAGCGCTGGCGGTGA
>TADA1_LsgRNA35
TGGCCGCTCCAGCTCGCTCACAAAGGTCG
>TADA1_LsgRNA36
GCTGCGGGGTCACGTTACTGCCAAAGGCAT
>TADA1_LsgRNA37
GTCACTATCATTTCTCCCTTCAAGCTGGCCT
>TADA1_LsgRNA38
TACACTATTCTTCAGGTATGGCTGCGGGGT
>TADA1_LsgRNA39
CTCTCTCAGGAGCCAGCAATTTGTGGCAA
>TADA1_LsgRNA40
ACAACCTGACGTCAGTATATCTTTAAGGTGA
>TADA1_LsgRNA41
CAGCCTGCTGCTCAGCATCATCAGGGGGTG
>TADA1_LsgRNA42
GGTGCTGGATCTTTGCCTTGGCCAGGGGGT
>TADA1_LsgRNA43
GTAGCTTACAACAACCTTAATAGAAAGGTAA
>TADA1_LsgRNA44
CGACCTTTGTGAGCGAGCTGGAGGCGGCCA
>TADA1_LsgRNA45
ATCTGACAACGCGTGAGAATGGCCAGGAGG
>TADA1_LsgRNA46
TGGCGACCTTTGTGAGCGAGCTGGAGGCGG
>TADA1_LsgRNA47
TAGTGACTGCTTATGAGCATGGGCTGGACA
>TADA1_LsgRNA48
TTAAGAGCATAGACAGTATGTGTAGGGATG
>TADA1_LsgRNA49
TGGGGATCCTTTGCCACAAATTGCTGGGCT
>TADA1_LsgRNA50
CGCAGCAAACCTTGAAAACCCAAGGGAAA
>TADA1_LsgRNA51
CAAGGCAAAGATCCAGCACCATCTAGGAGA
>TADA1_LsgRNA52
TTTAGCACAGCAAAGCCCTCCTTGGCTG

>TADA1_LsgRNA53
ACCAGCACAGGGAGCAGTAAAAGCTGGAGG
>TADA1_LsgRNA54
GGCTGCACTCCTGCTGGCATGCTCCGGAGA
>TADA1_LsgRNA55
CTGAGCAGCAGGCTGCACTCCTGCTGGCAT
>TADA1_LsgRNA56
TGCAGCCTGCTGCTCAGCATCATCAGGGGG
>TADA1_LsgRNA57
TGCTGCTCAGCATCATCAGGGGGTGGGTGA
>TADA1_LsgRNA58
TTTTGCTGCGGAACCCCTGGCCAAGGCAA
>TADA1_LsgRNA59
ATGGGCTGGACAATGTCACCGAGGAGGCTG
>TADA1_LsgRNA60
TGGTGCTGGATCTTTGCCTTGCCAGGGGG
>TADA1_LsgRNA61
AGAAGCTGGATTCTGACCAGCACAGGGAGC
>TADA1_LsgRNA62
GCCAGGAGGAAATCATTGTGAGAATGGACT
>TADA1_LsgRNA63
TGCTGGATCTTTGCCTTGCCAGGGGGTTC
>TADA1_LsgRNA64
GTAGGGATGACTTCCCTGTGCACCTGGGAT
>TADA1_LsgRNA65
CCAGGGCCTCGCTTAAGTTCTTCTTGCCG
>TADA1_LsgRNA66
GCCAGGGGGTTCCGCAGCAAAAACCTGGAAA
>TADA1_LsgRNA67
TTCTGTTCGTCAGAAATTTGATGTAGGTTG
>TADA1_LsgRNA68
AGCTGTTGTCTATGCTGTGGAGGTTGGTTT
>TADA1_LsgRNA69
CAAAGTTTCAAGTCGTCATCATCTTGGGGA
>TADA1_LsgRNA70
TATTGTTTCTGCCTCTGCAGATACTGGGCT
>TADA1_LsgRNA71
ACACTATTCTTCAGGTATGGCTGCGGGGTC
>TADA1_LsgRNA72
ACACTCTACCTGCATCTTTGCCTCCGGTGA
>TADA1_LsgRNA73
ACTGTCTATGCTCTTAACATTGAAAGGATC
>TADA1_LsgRNA74
ATCTTCTGCTTGAACACAGCTTTAGGTTA

>TADA1_LsgRNA75
 ATACTGACGTCAGTTGTGTCAAGAAGGAAA
 >TADA1_LsgRNA76
 TGTGTGAGAAGTCTATGAGCTTCAAGGTCA
 >TADA1_LsgRNA77
 CTGCTGCTCAGCATCATCAGGGGGTGGGTG
 >TADA1_LsgRNA78
 GTCTTGCTGCAGCTCTTCATGATTTGGATG
 >TADA1_LsgRNA79
 AGCCTGCTGCTCAGCATCATCAGGGGGTGG
 >TADA1_LsgRNA80
 GTGCTGGATCTTTGCCTTGGCCAGGGGGTT
 >TADA1_LsgRNA81
 GTTGTGTCAAGAAGGAAAGCTTATCGGTTA
 >TADA1_LsgRNA82
 AGAGTGTCTCCGGAGCATGCCAGCAGGAGT
 >TADA1_LsgRNA83
 AAGTTTCAAGTCGTCATCATCTTGGGGATC
 >TADA1_LsgRNA84
 CATGTTACCCGGAGGCAAAGATGCAGGTAG
 >TADA1_LsgRNA85
 ATATTTCTGTCTCCTAGATGGTGCTGGATC
 >TADA1_LsgRNA86
 AAAGTTTCAAGTCGTCATCATCTTGGGGAT
 >TADA1_LsgRNA87
 ATTGTTTCTGCCTCTGCAGATACTGGGCTA

(25) S_8^- : 51 low on-target activity sgRNAs targeting HPRT1

>HPRT1_LsgRNA1
 GGTGAAAAGGACCCACGAAGTGTGGATA
 >HPRT1_LsgRNA2
 TGATAAAATCTACAGTCATAGGAATGGATC
 >HPRT1_LsgRNA3
 AAAAAAGTAATTCACTTACAGTCTGGCTT
 >HPRT1_LsgRNA4
 TTCCAAATCCTCAGCATAATGATTAGGTAT
 >HPRT1_LsgRNA5
 TTTTAACTAGAATGACCAGTCAACAGGGGA
 >HPRT1_LsgRNA6
 GCAAAAATAAATCAAGGTCATAACCTGGTTC
 >HPRT1_LsgRNA7
 AAACAATGCAGACTTTGCTTTCCTTGGTCA
 >HPRT1_LsgRNA8
 GTCAACAGGGGACATAAAAAGTAATTGGTGG

>HPRT1_LsgRNA9
TTTAACTAGAATGACCAGTCAACAGGGGAC
>HPRT1_LsgRNA10
ATGCAGACTTTGCTTTCCTTGGTCAGGCAG
>HPRT1_LsgRNA11
CGCCAGGGCTGCGGGTCGCCATAACGGAGC
>HPRT1_LsgRNA12
TGAAATTCCAGACAAGTTTGTGTAGGATA
>HPRT1_LsgRNA13
AATCCAAAGATGGTCAAGGTCGCAAGGTAT
>HPRT1_LsgRNA14
AGCACACAGAGGGCTACAATGTGATGGCCT
>HPRT1_LsgRNA15
TGCTCACCACGACGCCAGGGCTGCGGGTCG
>HPRT1_LsgRNA16
TTTTTCAGATTAGTGATGATGAACCAGGTTA
>HPRT1_LsgRNA17
TTTGCATACCTAATCATTATGCTGAGGATT
>HPRT1_LsgRNA18
TGCTCGAGATGTGATGAAGGAGATGGGAGG
>HPRT1_LsgRNA19
ATTCCTCATGGACTAATTATGGACAGGTAA
>HPRT1_LsgRNA20
CAGTCTGATAAAATCTACAGTCATAGGAAT
>HPRT1_LsgRNA21
TTACCTGTCCATAATTAGTCCATGAGGAAT
>HPRT1_LsgRNA22
CTGGCTTATATCCAACACTTCGTGGGGTCC
>HPRT1_LsgRNA23
TTTTCTTCTAGAATGTCTTGATTGTGGAAG
>HPRT1_LsgRNA24
ATACCTTGCGACCTTGACCATCTTTGGATT
>HPRT1_LsgRNA25
CCCTGAAGTATTCATTATAGTCAAGGGCAT
>HPRT1_LsgRNA26
GGCCGAGCTGCTCACCACGACGCCAGGGCT
>HPRT1_LsgRNA27
TGGAGATGATCTCTCAACTTTAACTGGAAA
>HPRT1_LsgRNA28
TCGAGATGTGATGAAGGAGATGGGAGGCCA
>HPRT1_LsgRNA29
TCTGGCTTATATCCAACACTTCGTGGGGTC
>HPRT1_LsgRNA30
GTCTGGCTTATATCCAACACTTCGTGGGGT

>HPRT1_LsgRNA31
 AACAGGGGACATAAAAAGTAATTGGTGGAGA
 >HPRT1_LsgRNA32
 CATTGTAGCCCTCTGTGTGCTCAAGGGGGG
 >HPRT1_LsgRNA33
 TTCAGTGCTTTGATGTAATCCAGCAGGTCA
 >HPRT1_LsgRNA34
 GCATGTTTGTGTCATTAGTGAAACTGGAAA
 >HPRT1_LsgRNA35
 GCTATAAATTCTTTGCTGACCTGCTGGATT
 >HPRT1_LsgRNA36
 TACCTAATCATTATGCTGAGGATTTGGAAA
 >HPRT1_LsgRNA37
 ATTGTAGCCCTCTGTGTGCTCAAGGGGGG
 >HPRT1_LsgRNA38
 TGATTAGGTATGCAAAATAAATCAAGGTCA
 >HPRT1_LsgRNA39
 GGCATATCCTACAACAACTTGTCTGGAAT
 >HPRT1_LsgRNA40
 TGTTTATTCTCATGGACTAATTATGGACA
 >HPRT1_LsgRNA41
 CTGCTCACCACGACGCCAGGGCTGCGGGTC
 >HPRT1_LsgRNA42
 ATGATCTCTCAACTTTAACTGGAAAGGTAT
 >HPRT1_LsgRNA43
 AACGTCTTGCTCGAGATGTGATGAAGGAGA
 >HPRT1_LsgRNA44
 TTTTTGAAAGGATATAATTGACACTGGCAA
 >HPRT1_LsgRNA45
 TCCCTGAAGTATTCATTATAGTCAAGGGCA
 >HPRT1_LsgRNA46
 CCCTTGACTATAATGAATACTTCAGGGATT
 >HPRT1_LsgRNA47
 TCTTTGGATTATACTGCCTGACCAAGGAAA
 >HPRT1_LsgRNA48
 ACATTGTAGCCCTCTGTGTGCTCAAGGGGG
 >HPRT1_LsgRNA49
 GTAATTAACAGCTTGCTGGTGAAAAGGACC
 >HPRT1_LsgRNA50
 ATCATTATGCTGAGGATTTGGAAAAGGGTGT
 >HPRT1_LsgRNA51
 GCCCTTGACTATAATGAATACTTCAGGGAT

(26) S₉: 123 low on-target activity sgRNAs targeting CUL3

>CUL3_LsgRNA1
GATGAAAAATATGTAAACAGCATTGGGAC
>CUL3_LsgRNA2
CGTCAAAACTGGAAGGAATGTTTAGGGATA
>CUL3_LsgRNA3
ATGAAAAATATGTAAACAGCATTGGGACC
>CUL3_LsgRNA4
AAAAAACATGATATCTAAGTTAAAGGTAA
>CUL3_LsgRNA5
CTCAAAAGCATGTCTTGGTGCTGGTGGGAT
>CUL3_LsgRNA6
AGGTAAAGCTCTTGTCTTCTGAAGAAGGAGA
>CUL3_LsgRNA7
CCGGAAAGGCCCGGATCCGCATCTTGGTGT
>CUL3_LsgRNA8
ACCCAAATCAAAGGAAATAGAAAATGGTCA
>CUL3_LsgRNA9
TAGAAACAATATTGGATAAAGCAATGGTCC
>CUL3_LsgRNA10
AATCAACGGAAGAACCAATTGTAAAGGTGG
>CUL3_LsgRNA11
TGATAAGCTGAAAAGGGAGTCAAAGGGGT
>CUL3_LsgRNA12
TCTGAATATCTCAAAGCATGTCTTGGTGC
>CUL3_LsgRNA13
TTTGAATCTTGACTCTGTGTAGTTGGATG
>CUL3_LsgRNA14
AACCAATTGTAAAGGTGGTTGAAAGGGAAC
>CUL3_LsgRNA15
CAGAACAAGAAGTAGAAACAATATTGGATA
>CUL3_LsgRNA16
GAGCACCATGTCTGAATCTGAGCAAAGGCAC
>CUL3_LsgRNA17
TCCGACCCAGAGAGGAAAGAAACAAGGCAG
>CUL3_LsgRNA18
TTGAACGTTATTATAAACAACACTTGGCAA
>CUL3_LsgRNA19
AAGGACTTATTGAGAGAGAATATTTGGCAC
>CUL3_LsgRNA20
GAGGAGAGACTCACCGAAAGGCCCGGATC
>CUL3_LsgRNA21
TTAAAGAGCATTAATATGGTCATCTGGAAA
>CUL3_LsgRNA22
CATGAGATAGAAGCTGCTATAGTGCGGATA

>CUL3_LsgRNA23
CGGAAGGACACCAAGATGCGGATCCGGGCC
>CUL3_LsgRNA24
ATTCAGGCAACATCTACAGGCAACTGGTGT
>CUL3_LsgRNA25
TGTGAGTGTATGAGTTCCTATTTGAGGGAG
>CUL3_LsgRNA26
TATGAGTTCCTATTTGAGGGAGCAAGGTAA
>CUL3_LsgRNA27
ATCAATAAATAATGAGAGGTATTCAGGAGA
>CUL3_LsgRNA28
TTCAATACGTTTCTTAATAACAACCTGGACT
>CUL3_LsgRNA29
GACTATAGTAGAAATGGAGAATTCTGGGCT
>CUL3_LsgRNA30
GAGAATATTTGGCACGAACACCTGAGGATC
>CUL3_LsgRNA31
AGAAAATCCAGCGTAAGAATAACAGTGGTCT
>CUL3_LsgRNA32
GGATATGATTGCAAGAGAGCGGAAAGGAGA
>CUL3_LsgRNA33
GTGGATGTCAGTTCACGTCAAAACTGGAAG
>CUL3_LsgRNA34
CGTTATTATAAACAACACTTGGCAAGGAGA
>CUL3_LsgRNA35
CTCTATTATTAAGAGCATTAAATATGGTCA
>CUL3_LsgRNA36
AGGTATTCAGGAGACCTGGAGTTGAGGTTG
>CUL3_LsgRNA37
ATTTATTGATGATAAGCTGAAAAAGGGAGT
>CUL3_LsgRNA38
ACGTCAAAACTGGAAGGAATGTTTAGGGAT
>CUL3_LsgRNA39
TGAGCAAAGGCACGGGCAGCCGGAAGGACA
>CUL3_LsgRNA40
CCCGCAATAGTTTGTTTAAAGAGACGGTCA
>CUL3_LsgRNA41
ACTACACAGAGTCAAGATTCAAACAGGTAT
>CUL3_LsgRNA42
ATGTCAGTTCACGTCAAAACTGGAAGGAAT
>CUL3_LsgRNA43
AGCACATGAAGACTATAGTAGAAATGGAGA
>CUL3_LsgRNA44
TAAACATGGAGAAAAGCTCTACACTGGACT

>CUL3_LsgRNA45
CGGTCATTGTTGAATGATTCCAGGAGGAAG
>CUL3_LsgRNA46
GAACCCGCTGTGTTGGTTTACCACAGGCGA
>CUL3_LsgRNA47
CTCGCCTGTGGTAAACCAACACAGCGGGTT
>CUL3_LsgRNA48
TTTTTCGAGATCAAGTTGTACGTTATGGGTG
>CUL3_LsgRNA49
TGGGCTAGTACATATGTTGAAAAATGGAAA
>CUL3_LsgRNA50
AGCTCTATAGAAATGCATATACAATGGTTT
>CUL3_LsgRNA51
ACAGCTCACACTCCAGCATCATATGGGTTC
>CUL3_LsgRNA52
CCGTCTCTTTAAACAAACTATTGCGGGTGA
>CUL3_LsgRNA53
AGATCTGCAGAACCCATATGATGCTGGAGT
>CUL3_LsgRNA54
TCGCCTGTGGTAAACCAACACAGCGGGTTC
>CUL3_LsgRNA55
AGCTCTTGT'TTCTGAAGAAGGAGAAGGAAA
>CUL3_LsgRNA56
TTCCCTTTCAACCACCTTTACAATTGGTTC
>CUL3_LsgRNA57
GAAAGAATCCTGTTGACTATATCCAGGTAA
>CUL3_LsgRNA58
CTTGGAATGATCATCAAACAGCTATGGTGA
>CUL3_LsgRNA59
CTAAGACCACTGTTATTCTTACGCTGGATT
>CUL3_LsgRNA60
TCGAGACCTAAAATCATTAAACATCTGGCAA
>CUL3_LsgRNA61
TTTTCGAGATCAAGTTGTACGTTATGGGTGT
>CUL3_LsgRNA62
GTGTGAGCTGTCGACCACTGTGTTTGGCTA
>CUL3_LsgRNA63
CCAAGATGCGGATCCGGGCCTTTCCGGTGA
>CUL3_LsgRNA64
GGAAGATGGATCTGAAGTTGGTGTGGAGG
>CUL3_LsgRNA65
TGCAGCACAATGTTCTAGTAGCGGAGGTGA
>CUL3_LsgRNA66
AGATGCAGCACAATGTTCTAGTAGCGGAGG

>CUL3_LsgRNA67
GGCAGCCGGAAGGACACCAAGATGCGGATC
>CUL3_LsgRNA68
TTCTGCCTTGTTTCTTTCTCTCTGGGTCG
>CUL3_LsgRNA69
CCGTGCCTTTGCTCAGATTTCGACATGGTGC
>CUL3_LsgRNA70
GACAGCTCACACTCCAGCATCATATGGGTT
>CUL3_LsgRNA71
TAGGGCTCTAACAAGCTCTCTTTCAGGGAT
>CUL3_LsgRNA72
ATAAGCTGAAAAAGGGAGTCAAAGGGGTAA
>CUL3_LsgRNA73
TGGTGCTGGTGGGATGTTGCACTTTGGTGT
>CUL3_LsgRNA74
AAGGGCTTATTGGATCTGAAGAGTAGGTTC
>CUL3_LsgRNA75
GAGCGGAAAGGAGAAGTCGTAGACAGGTAA
>CUL3_LsgRNA76
CAACGGAAGAACCAATTGTAAAGGTGGTTG
>CUL3_LsgRNA77
GGAAGGACACCAAGATGCGGATCCGGGCCT
>CUL3_LsgRNA78
AGATGGATCTGAAGTTGGTGTGGAGGTGC
>CUL3_LsgRNA79
AGACGGTCATTGTTGAATGATTCCAGGAGG
>CUL3_LsgRNA80
GTGTGTATGTACAACAAAATAATGTGGAGA
>CUL3_LsgRNA81
CCATGTTCGAATCTGAGCAAAGGCACGGGCA
>CUL3_LsgRNA82
TAATGTGGAGAACGTCTACAATTTGGGATT
>CUL3_LsgRNA83
TTAGGTGGTGTGGATCTTACAGTCCGGGTG
>CUL3_LsgRNA84
ATATGTGTATACTTTGCGATCCTCAGGTGT
>CUL3_LsgRNA85
GTGAGTGTATGAGTTCCTATTTGAGGGAGC
>CUL3_LsgRNA86
CGCTGTGTTGGTTTACCACAGGCGAGGGAC
>CUL3_LsgRNA87
AGTTGTTATTAAGAAACGTATTGAAGGACT
>CUL3_LsgRNA88
ATTGGTCTTCCGTTGATTTGTCAAGGCAG

>CUL3_LsgRNA89
TGGTGTGGAGGTGCACAAGTAACTGGCTC
>CUL3_LsgRNA90
GCATTAATATGGTCATCTGGAAAGTGGAAA
>CUL3_LsgRNA91
TTCTTACAAAAGAACCCAAATCAAAGGAAA
>CUL3_LsgRNA92
GGTTTACCACAGGCGAGGGACTGTAGGGCT
>CUL3_LsgRNA93
TTGTTACCGAACATCTCATAAATAAGGTAT
>CUL3_LsgRNA94
TTGATACCTTATTTATGAGATGTTTCGGTAA
>CUL3_LsgRNA95
TTTCTACTATAGTCTTCATGTGCTTGGAAA
>CUL3_LsgRNA96
ATAATAGAGAAAAATACACATTTGAGGTAT
>CUL3_LsgRNA97
AGAGTAGGTTTCGATCGCTTCCTCCTGGAAT
>CUL3_LsgRNA98
ACTATAGTAGAAATGGAGAATTCTGGGCTA
>CUL3_LsgRNA99
TATTTATTGATGATAAGCTGAAAAAGGGAG
>CUL3_LsgRNA100
TATCTCAAAGCATGTCTTGGTGCTGGTGG
>CUL3_LsgRNA101
GGGATCATCTACGGCAAACCTCTATTGGATA
>CUL3_LsgRNA102
CGGATCCGCATCTTGGTGTCTTCCGGCTG
>CUL3_LsgRNA103
CATGTCGAATCTGAGCAAAGGCACGGGCAG
>CUL3_LsgRNA104
AAATTCTGCAGACATTTCCAAAAAAGGAGC
>CUL3_LsgRNA105
TGGATGAATTCAGGCAACATCTACAGGCAA
>CUL3_LsgRNA106
AATCTGAGCAAAGGCACGGGCAGCCGGAAG
>CUL3_LsgRNA107
TTTCTGCCTTGTTTCTTTCTCTCTGGGTC
>CUL3_LsgRNA108
CTATTGGATATGATTGCAAGAGAGCGGAAA
>CUL3_LsgRNA109
CTGGTGGGATGTTGCACTTTGGTGTGGCTG
>CUL3_LsgRNA110
TCTCTGGGTCGGATTACCTTGTTTGGCAG

>CUL3_LsgRNA111
 TAGGTGGTGTGATCTTACAGTCCGGGTGC
 >CUL3_LsgRNA112
 AAGTTGTACGTTATGGGTGTATTAGGGATC
 >CUL3_LsgRNA113
 ATAATGTGGAGAACGTCTACAATTTGGGAT
 >CUL3_LsgRNA114
 GCCTTGTTCCTTCTCTCTGGGTCGGATT
 >CUL3_LsgRNA115
 TTTTTTAAAAATGAAACAGGAAGATGGATC
 >CUL3_LsgRNA116
 CAAGTTATTTAGTCGTGTGCCAAATGGTTT
 >CUL3_LsgRNA117
 TTTCTTCAAACGCTAAATCAAGCTTGAAT
 >CUL3_LsgRNA118
 ACGTTTCTTAATAACAACACTGGACTTGGTAA
 >CUL3_LsgRNA119
 TATGTTGAAAAATGGAAAGACAGAAGGTAA
 >CUL3_LsgRNA120
 CAAGTTGTACGTTATGGGTGTATTAGGGAT
 >CUL3_LsgRNA121
 GAGCTTTACCTTGCTCCCTCAAATAGGAAC
 >CUL3_LsgRNA122
 TCTTTTCTTGCATAAACCTAAAAAGGACC
 >CUL3_LsgRNA123
 TTCTTTTGTAAGAACCCGCTGTGTTGGTTT

(27) S_{10}^- : 588 low on-target activity sgRNAs targeting NF1

>NF1_LsgRNA1
 AATAAAAAATAGGATTCCCAGCTTTGGAAG
 >NF1_LsgRNA2
 TTCCAAAAATCTAACGTGAGGTGTGGCTC
 >NF1_LsgRNA3
 TTAGAAAACATGTTCCAGAGCAGTTGGTAG
 >NF1_LsgRNA4
 TCCTAAAAGGCAAGAAATGGAATCAGGGAT
 >NF1_LsgRNA5
 GTGCAAAATTAACGACTCCTGAAGGGTA
 >NF1_LsgRNA6
 AAGAAAACAGGGGCCGAAACCCAAGGCAG
 >NF1_LsgRNA7
 CAGAAAAGAGTGATGGCACTGCTGAGGCGC
 >NF1_LsgRNA8
 ACGAAAAGCTCTTGCTGGCCATGGAGGAAG

>NF1_LsgRNA9
ATCAAAAAGGAGATACTTACACAACAGGAAA
>NF1_LsgRNA10
CCTAAAAGGCAAGAAATGGAATCAGGGATC
>NF1_LsgRNA11
GATGAAAAGTGCGCAAACAGGTGGCAGGAAA
>NF1_LsgRNA12
GTGGAAAATACCAGTCAAATGTCCATGGATC
>NF1_LsgRNA13
GAGTAAATCCACTTACCTATAGGAAGGGTC
>NF1_LsgRNA14
CAGGAAATCCATGAGCCTGGACATGGGGCA
>NF1_LsgRNA15
TTCTAAATGACATTTATTATGCTTCGGAAA
>NF1_LsgRNA16
TCATAAATTCCTCAAACCTTGAAGTGGTAA
>NF1_LsgRNA17
AGACAACAAGAGCTCTTGGTTGCAGGGATG
>NF1_LsgRNA18
TGGAAACAGTCACAGAAGCTTTGTTGGAGA
>NF1_LsgRNA19
CTGTAACAGTGGACGAACTCGCCACGGATC
>NF1_LsgRNA20
TTATAACCAAAGAAAACCTTGTATTTGGAAA
>NF1_LsgRNA21
TCAAAAACCAGTGCAACAGGTGGCTTGGGAT
>NF1_LsgRNA22
CATAAACCTGATGTCTCTAGTAACTGGCCC
>NF1_LsgRNA23
GCTGAACTTCGGAATTCTGCCTCTGGGGTT
>NF1_LsgRNA24
CTCTAACTTTAACTTTGCATTGGTTGGACA
>NF1_LsgRNA25
AGGGAAGATGAGCTGCCACATCAAGGGAAT
>NF1_LsgRNA26
AGGTAAGATGTTTGGTATTGTGGTGGGGAT
>NF1_LsgRNA27
TGTAAGCAAGTACTTACATCAATTGGGAA
>NF1_LsgRNA28
AGAAAAGCTATTTGACTTGGTGGATGGTTT
>NF1_LsgRNA29
TACCAAGCTGGGACTTCCAAAGCTGGGAAT
>NF1_LsgRNA30
GGGTAAGGAGATGTGGGAGTCAGGAGGGAT

>NF1_LsgRNA31
ACTGAAGGCAGCTCTGAACATCTAGGGCAA
>NF1_LsgRNA32
CTGCAAGGTATCCTTCAGAACCTTTGGGAG
>NF1_LsgRNA33
GTAAAATAATGACATTCTGTTTCAAGGTTT
>NF1_LsgRNA34
CAAAAATATGGGGAAGCCTTGGGCAGGTAT
>NF1_LsgRNA35
AGGAAATCCATGAGCCTGGACATGGGGCAA
>NF1_LsgRNA36
TTTTAATGGCTTGTGGCGGTTTGCAGGACC
>NF1_LsgRNA37
CCAAAATGTTTCTACAGGAGCATCAGGATT
>NF1_LsgRNA38
AATTAATTACAGGGCTCGTCCAACCTGGTCC
>NF1_LsgRNA39
TTTGAATTCTGTAGAAGTTATTTCTGGACA
>NF1_LsgRNA40
TCCAAATTTGTTAAATCCAATCCATGGAAT
>NF1_LsgRNA41
CTTAACAATAAGCTCAGCATAGTCTGGAAT
>NF1_LsgRNA42
TCTGACACAGACTCCCTACAGGAATGGATC
>NF1_LsgRNA43
AGGCACACTCCCCAAGGGCACAAAGGAAG
>NF1_LsgRNA44
GGATACACTGGAAAAATGTCTTGCTGGGGT
>NF1_LsgRNA45
TGAAACACTTCATAAAGCAGTGCAAGGTTG
>NF1_LsgRNA46
ACTGACACTTCATCCACCCCACACCGGATA
>NF1_LsgRNA47
AAGTACAGAAGAAGCTGACCATAGAGGAGT
>NF1_LsgRNA48
ACTAACCAAGCAACTTCTTAGTGTTGGCCT
>NF1_LsgRNA49
CCCTACCACTGGCCACTGTAACAGTGGACG
>NF1_LsgRNA50
GGCAACCAGAACAGCTTCAGTGTGAGGGTT
>NF1_LsgRNA51
GGAAACCAGCATGCAGCTGAACTTCGGAAT
>NF1_LsgRNA52
CAAAACCAGTGCAACAGGTGGCTTGGGATC

>NF1_LsgRNA53
CTCCACCATTCTATAGGAATAAGATGGTAG
>NF1_LsgRNA54
CTAGACCCACCAGATCCTTAACATTGGTCC
>NF1_LsgRNA55
TCTTACCGGTGCCATTTCGTATTGCTGGGTG
>NF1_LsgRNA56
GCATACCTCAGTGTTTCCTGCAGTGGGATG
>NF1_LsgRNA57
AATGACCTGTCCCGGTAACCTGGAACGGAAG
>NF1_LsgRNA58
GTTACCTTAACCATTGCAAACCAGGGCAC
>NF1_LsgRNA59
TTGTACCTTTAATTTAAAAATCGAGGGCCA
>NF1_LsgRNA60
AAATACGGACCAATGTTAAGGATCTGGTGG
>NF1_LsgRNA61
GACCACGGCCTGGACCCATTCCACCGGCCT
>NF1_LsgRNA62
GGAAACGTGGCATGTCTCGGAGGCTGGCAT
>NF1_LsgRNA63
CCTTACGTTCACTGACTGGACCCATGGGTG
>NF1_LsgRNA64
TTCAACGTTCTCCTTGTTCGATTCTGGAGA
>NF1_LsgRNA65
GGAGACGTTGTCGTAAGCAAAGCCAGGAAA
>NF1_LsgRNA66
TCTTACTAATAGAGACAATAAAGAGGGTGT
>NF1_LsgRNA67
GAGAACTCCCTATAGCGATGGCTCTGGCCA
>NF1_LsgRNA68
AGACACTGAAACTTTACGTAAATGTGGGTG
>NF1_LsgRNA69
TCAGACTGAGTCTCAAACTTGCTTGGTCT
>NF1_LsgRNA70
AGATACTGCTGTAGCTTTGGCTTCTGGAAA
>NF1_LsgRNA71
CATGACTGGCTTCCTTTGTGCCCTTGGGGG
>NF1_LsgRNA72
TCTGACTGTTCTTGCAACAATAGCAGGTGA
>NF1_LsgRNA73
AAGTACTTACTGATCCGAAGATCCAGGCGC
>NF1_LsgRNA74
TGGAACTTACTTTAATAGAACTTTGGTGT

>NF1_LsgRNA75
CAGAACTTGACTGTTGTAAGTGCAGGTCC
>NF1_LsgRNA76
TCAAACCTTGAAGTGGTAAGGTTAAGGCTG
>NF1_LsgRNA77
GTGCAGAAAAGCTATTTGACTTGGTGGATG
>NF1_LsgRNA78
CATGAGAAAGTGGGACTTCAAATACGGACC
>NF1_LsgRNA79
GCACAGAAATTCTCAAGTGGTTGCGGGAAA
>NF1_LsgRNA80
TAAGAGAACACTTTACCTGTCCCTGGGAGT
>NF1_LsgRNA81
AGTAAGAAGCAGCGCCTGGATCTTCGGATC
>NF1_LsgRNA82
TCACAGAAGCTTTGTTGGAGATCATGGAGG
>NF1_LsgRNA83
AACCAAGAGCTCTTGTTGCAGGGATGGATT
>NF1_LsgRNA84
GGTAAGATGTTTGGTATTGTGGTGGGGATT
>NF1_LsgRNA85
CAGAAGATTATAGGCAGCTGACCTAGGAGA
>NF1_LsgRNA86
TCAGAGATTTGGACCAGGCAAGCATGGAAG
>NF1_LsgRNA87
TCAAAGCAAAGTCTCTCTCATAGGAGC
>NF1_LsgRNA88
GTAAAGCAAGTACTTACATCAATTGGGAAG
>NF1_LsgRNA89
GTGGAGCACACCCAGCAATACGAATGGCAC
>NF1_LsgRNA90
GAGTAGCAGAACTGATTATGAAATGGGTG
>NF1_LsgRNA91
AGGAAGCAGATATCCGGTGTGGGGTGGATG
>NF1_LsgRNA92
GAATAGCAGTAACTCTTTGTCGTTTGGCAT
>NF1_LsgRNA93
TGTAAGCATAACCTGGTATAAACAGTGGCAC
>NF1_LsgRNA94
GCACAGCCACAGCTACCCAAAAGAGGGCTT
>NF1_LsgRNA95
CCCGAGCCAGGAAATCCATGAGCCTGGACA
>NF1_LsgRNA96
GACAAGCCCAGACCAAACCTAGAAGTGCC

>NF1_LsgRNA97
CTATAGCGATGGCTCTGGCCAATGTGGTTC
>NF1_LsgRNA98
TTAAAGCGATTGCTAGGCCCGGTATGGGTA
>NF1_LsgRNA99
ATAAAGCTACAGTAAAAGAAAAAAGGAAA
>NF1_LsgRNA100
ACTAAGCTGGCTCTGCAGTGCAGGAGGGTA
>NF1_LsgRNA101
ACAAAGCTTCTGTGACTGTTTCCAAGGATG
>NF1_LsgRNA102
CAGAAGCTTTGTTGGAGATCATGGAGGTAT
>NF1_LsgRNA103
CCAGAGGAAGTATTTATGGCAATCCGGAAT
>NF1_LsgRNA104
ATCAAGGAGAACTCCCTATAGCGATGGCTC
>NF1_LsgRNA105
AAGAAGGAGATGGTGTGGAATTGATGGAAG
>NF1_LsgRNA106
GGTAAGGAGATGTGGGAGTCAGGAGGGATT
>NF1_LsgRNA107
TTCCAGGCAGGTACGTGTCAATCAAGGCAT
>NF1_LsgRNA108
CAAGAGGCAGTCAGCCTGCAGATGTGGATC
>NF1_LsgRNA109
TAAGAGGCGAATGTCCCATGTGAGTGGAGG
>NF1_LsgRNA110
TTGCAGGTAAGATGTTTGGTATTGTGGTGG
>NF1_LsgRNA111
TGCAAGGTATCCTTCAGAACCTTTGGGAGA
>NF1_LsgRNA112
GGTAAGGTCCACTACAATTTTCATATGGCTT
>NF1_LsgRNA113
ACAAAGGTGTTTCAATTCAATACCTGGAAA
>NF1_LsgRNA114
AGGGAGTACACCAAGTATCATGAGCGGCTG
>NF1_LsgRNA115
AGGCAGTACAGCAGAATTAATTACAGGGCT
>NF1_LsgRNA116
TGGGAGTCAGGAGGGATTCTTCACTGGTTT
>NF1_LsgRNA117
TCATAGTCTTTCCTTCATAAGTGACGGCAA
>NF1_LsgRNA118
AGACAGTGGTCTCATGCACTCCATAGGTGA

>NF1_LsgRNA119
GAGCAGTGTCCCAGGGACATCTTTTGGCCG
>NF1_LsgRNA120
AAGAAGTGTGGCCATCTTATCAAAAAGGTCCG
>NF1_LsgRNA121
CATCAGTTAGATAGCATTGATTTGTGGAAT
>NF1_LsgRNA122
TAGCAGTTATAAATAGCCTGGAAAAGGTAA
>NF1_LsgRNA123
GACAATAAAGAGGGTGTGTTGGCAGGGAT
>NF1_LsgRNA124
ATCTATAACTGTAACCTCTGGGTCAGGGAG
>NF1_LsgRNA125
CCACATAAGATGTTGTTCTAAAGTAGGAGT
>NF1_LsgRNA126
CTATATAGGTATGTTTCGTGTGCTTGGGAAT
>NF1_LsgRNA127
GTCTATATCTATAACTGTAACCTCTGGGTC
>NF1_LsgRNA128
TTTCATCAAAACCAGTGCAACAGGTGGCTT
>NF1_LsgRNA129
TGGGATCAATAAAAAGCTGAGGTGATGGCAG
>NF1_LsgRNA130
ATTCATCATGGTGACCCTTCCTATAGGTAA
>NF1_LsgRNA131
GTCAATCATTAGATCCACATCTGCAGGCTG
>NF1_LsgRNA132
ACCCATCTATTCAAGCAAAAATATGGGGAA
>NF1_LsgRNA133
CCTAATCTCCAAAATGTTTCTACAGGAGC
>NF1_LsgRNA134
CCCTATCTTGCTGCAGAACTCAGAGGATT
>NF1_LsgRNA135
TTGGATCTTGGCACAATGATAACAGGGTGT
>NF1_LsgRNA136
CTTCATGATCCATGGACATTTGACTGGTAT
>NF1_LsgRNA137
GATGATGATGTAAAATGTCTTACAAGGTAA
>NF1_LsgRNA138
CCTGATGCTCCTGTAGAAACATTTTGGGAG
>NF1_LsgRNA139
GGGAATGCTGGGAAGTTGCAAGTGAGGTCA
>NF1_LsgRNA140
CTGCATGCTGGTTTCCTTCACGACAGGTGT

>NF1_LsgRNA141
GCCAATGTCCCATGTGAGTGGAGGAGGATC
>NF1_LsgRNA142
CTCTATGTGCTCAGCCAGTTTCCAGGACA
>NF1_LsgRNA143
GTAAATGTGGGTGCTGTTGTGATGAGGAAA
>NF1_LsgRNA144
GCCAATGTGGTTCCTTGTTCTCAGTGGGTA
>NF1_LsgRNA145
ATGAATGTGTTATAGTTGGGCAAGAGGTTA
>NF1_LsgRNA146
CCTTATTAAGAAGTGGCTGTAATTTGGTTA
>NF1_LsgRNA147
CCAAATTACAGCCACTTCTTAATAAGGTAA
>NF1_LsgRNA148
GTGTATTAGCAAACGAGTGTCTCATGGGCA
>NF1_LsgRNA149
CCGGATTGCCATAAATACTTCTCTGGACT
>NF1_LsgRNA150
TGCCATTGTCTCACCGTATGAAGCAGGGAT
>NF1_LsgRNA151
TGGTATTGTGGTGGGGATTCTTCATGGTAC
>NF1_LsgRNA152
CGGCATTTACTCTACCAACTGCTCTGGAAC
>NF1_LsgRNA153
TATGATTTTCAGTGATGTCTTCAGAGGGAAA
>NF1_LsgRNA154
TAAAATTTGATTTGTTGCAGGTTTTGGTTT
>NF1_LsgRNA155
CAAGCAAAAATATGGGGAAGCCTTGGGCAG
>NF1_LsgRNA156
TACCCAAAAGAGGGCTTTGTGCAGAGGCGA
>NF1_LsgRNA157
TGCGCAAACAGGTGGCAGGAAACGTGGCAT
>NF1_LsgRNA158
GTGTCAAATTCTGTGCCTTGTGAAGGATT
>NF1_LsgRNA159
AAGACAACAAGAGCTCTTGGTTGCAGGGAT
>NF1_LsgRNA160
CAACCAAGAGCTCTTGTGTCTTTGGGTGT
>NF1_LsgRNA161
CTAGCAAGTTCTTCATTATAGCTATGGTTT
>NF1_LsgRNA162
ATGGCAATCCGGAATCCTCTGGAGTGGCAC

>NF1_LsgRNA163
GAAACAATGATGTTAAATCTGGTCAGGTAA
>NF1_LsgRNA164
ATCACAAATTCGTAATAAAGGATCCAGGAGT
>NF1_LsgRNA165
GTGGCACACACTTCGAAGTTGAGGGGGGAA
>NF1_LsgRNA166
TTGACACACTTGCAGAAACAGTATTGGCTG
>NF1_LsgRNA167
ATATCACATCCTACCCCGTAAAAAAGGAGA
>NF1_LsgRNA168
CAAGCACATTGCCGTCACCTTATGAAGGAAA
>NF1_LsgRNA169
AGTTCACCTTAACCATTGCAAACCAGGGCA
>NF1_LsgRNA170
CCTTCACGACAGGTGTGAAGAAAATGGCAG
>NF1_LsgRNA171
AGGACACTAAAGGAGACTCAGCCATGGTCC
>NF1_LsgRNA172
GATACACTGGAAAAATGTCTTGCTGGGGTA
>NF1_LsgRNA173
CTTGCAGAAACAGTATTGGCTGATCGGTTT
>NF1_LsgRNA174
AGCACAGAAATTCTCAAGTGGTTGCGGGAA
>NF1_LsgRNA175
CCCTCAGAACAGCATCGGTGCAGTAGGAAG
>NF1_LsgRNA176
AGGCCAGAATTGCTTCTCTGCTGGAGGCAC
>NF1_LsgRNA177
ATATCAGACACAAAGGCTCCTAAAAGGCAA
>NF1_LsgRNA178
TCAGCAGAGCGAACAAGTCCCTAGGGCAA
>NF1_LsgRNA179
TACACAGAGCGTGGCCTACTTAGCAGGTAA
>NF1_LsgRNA180
CAGTCAGCAGCCGCTCATGATACTTGGTGT
>NF1_LsgRNA181
AGCACAGCCACAGCTACCCAAAAGAGGGCT
>NF1_LsgRNA182
GACTCAGCCATGGTCCTCTCCCAAAGGTTC
>NF1_LsgRNA183
TTCCCAGCTTTGGAAGTCCCAGCTTGGTAG
>NF1_LsgRNA184
GAGCCAGGAGAGAATGACCTGTCCCGGTAA

>NF1_LsgRNA185
GGAACAGGTACCTTGCTAAGAATACGGATT
>NF1_LsgRNA186
CCTTCAGGTCCTCTTCTAAAGCCAAGGTGG
>NF1_LsgRNA187
CCGACAGTTGGATAGGTGGCTGCAAGGTAT
>NF1_LsgRNA188
ACTTCATAAAGCAGTGCAAGGTTGTGGAGC
>NF1_LsgRNA189
TTTTTCATAGACTGTCCTGGGAACTGGCTG
>NF1_LsgRNA190
TACCCATCTATTCAAGCAAAAATATGGGGA
>NF1_LsgRNA191
AGTGCATGAGACCACTGTCTACGTTGGCAT
>NF1_LsgRNA192
AGGACATGGCCGCGCACAGGCCGGTGAAT
>NF1_LsgRNA193
CTATCATTCATATCCGGACCCGCTGGGAAC
>NF1_LsgRNA194
TTAACATTCTTTAAAATAGTAGTGAGGCCG
>NF1_LsgRNA195
CTATCCAAAAGCCAAAATGGAAGATGGCCA
>NF1_LsgRNA196
AATGCCAAACAGCAAGTAAAATTTGGGTAA
>NF1_LsgRNA197
AGCACCAAACGTAAAGCAGCAGTTTGGCCA
>NF1_LsgRNA198
GTGGCCAAACTGCTGCTTTACGTTTGGTGC
>NF1_LsgRNA199
GCAACCAAGAGCTCTTGTTGTCTTTGGGTG
>NF1_LsgRNA200
TAATCCAAGTAAGCCATTCTCAAGAGGCAG
>NF1_LsgRNA201
TACACCACACTCTGCACAATTCCATGGATT
>NF1_LsgRNA202
GCAACCAGAACAGCTTCAGTGTGAGGGTTC
>NF1_LsgRNA203
ATCTCCAGACAAGAGCTACATTTATGGAAG
>NF1_LsgRNA204
TGTACCAGATCCCACAGACTGATATGGCTG
>NF1_LsgRNA205
TAATCCAGGATATATCCAAAGACGTGGTTG
>NF1_LsgRNA206
ACTTCCATAAATGTAGCTCTTGTCTGGAGA

>NF1_LsgRNA207
CCAGCCATATCAGTCTGTGGGATCTGGTAC
>NF1_LsgRNA208
GGACCCATTCCACCGCCTGTGCGCGGCCA
>NF1_LsgRNA209
CACACCCAGCAATACGAATGGCACCGGTAA
>NF1_LsgRNA210
CAAGCCCCTTTTCGATTCTAGGTGGTGGCTT
>NF1_LsgRNA211
GGAACCTGACACTGAAGCTGTTCTGGTTG
>NF1_LsgRNA212
TTTTCCCTTCCGGAGAGAGGCTCCAGGAGT
>NF1_LsgRNA213
ATGGCCGCGCACAGGCCGGTGAATGGGTC
>NF1_LsgRNA214
CTTACCGGTGCCATTTCGTATTGCTGGGTGT
>NF1_LsgRNA215
AATTCCTCAAACCTTTGAACTGGTAAGGTTA
>NF1_LsgRNA216
GGAGCCTCTCTCCGGAAGGGAAAAGGGAAC
>NF1_LsgRNA217
ACTGCCTCTTGAGAATGGCTTACTTGGATT
>NF1_LsgRNA218
AAATCCTGCTTCTTTACAGGTTATTGGAAG
>NF1_LsgRNA219
TACTCCTGGAGCCTCTCTCCGGAAGGGAAA
>NF1_LsgRNA220
TTAACCTTACCAGTTCAAAGTTTGAGGAAT
>NF1_LsgRNA221
TCTACGAAAAGCTCTTGCTGGCCATGGAGG
>NF1_LsgRNA222
AAAACGAACTAGATTTGACAGCCATGGAGT
>NF1_LsgRNA223
TCGTGGAAGCGGCTGACCACGGCCTGGACC
>NF1_LsgRNA224
GAGGCGAATGTCCCATGTGAGTGGAGGAGG
>NF1_LsgRNA225
AATGCGATATTGAGCAGTGTCCAGGGACA
>NF1_LsgRNA226
CAGCCGATCCATAAATTTGCTGACAGGTGT
>NF1_LsgRNA227
GAGGCGCATTGAGCATCCCACTGCAGGAAA
>NF1_LsgRNA228
CCAGCGCTTCTTTGCTTCTGCACTTGGCTT

>NF1_LsgRNA229
TGAGCGGCTGCTGACTGGCCTCAAAGGTAG
>NF1_LsgRNA230
TTACCGGGACAGGTCATTCTCTCCTGGCTC
>NF1_LsgRNA231
GGGCCGGTTACCTGCTCGTCTGAAGCGGCTG
>NF1_LsgRNA232
CCTCCGTGCAACATAATAAAAAATAGGATT
>NF1_LsgRNA233
CCAACGTGCAAGTGGCTGGACCAGTGGACA
>NF1_LsgRNA234
TATTTCGTGCATTTCTGTAGGTATATGGTGC
>NF1_LsgRNA235
CTTACGTTCACTGACTGGACCCATGGGTGG
>NF1_LsgRNA236
CCAGCGTTTCCCTCAGAACAGCATCGGTGC
>NF1_LsgRNA237
ACTGCTAACTGCGCAACCTTCTTTAGGGCT
>NF1_LsgRNA238
GATACTAAGCTGGCTCTGCAGTGCAGGAGG
>NF1_LsgRNA239
GAAACTACTGCTTCCATGCTTGCCTGGTCC
>NF1_LsgRNA240
ACTTCTAGTTTGGTCTGGGCTTGTCGGCAA
>NF1_LsgRNA241
CTTACTCAATGCCAACGTAGACAGTGGTCT
>NF1_LsgRNA242
CTTCTCACAGAGGTGGCGGAAACAGGACA
>NF1_LsgRNA243
AGAACTCACCTAAATTTTCATCTCTTGGCAA
>NF1_LsgRNA244
CAGGCTCATGGATTTCTGGCTCGGGGACT
>NF1_LsgRNA245
CTTTCTCATGGTTACACACCATTAAGGACA
>NF1_LsgRNA246
GTGCCTCCAGCAGAGAAGCAATTCTGGCCT
>NF1_LsgRNA247
CAAACCTCCATGAATGTGTTATAGTTGGGCA
>NF1_LsgRNA248
TGGTCTCCCTCTGCAGCCTGAAAGAAGGAGA
>NF1_LsgRNA249
CCATCTCCTTCTTCAGGCTGCAGAGGGAGA
>NF1_LsgRNA250
ATGTCTCGGAGGCTGGCATCACTGAGGCAC

>NF1_LsgRNA251
TCAACTCTAACTTTAACTTTGCATTGGTTG
>NF1_LsgRNA252
CACACTCTGCACAATTCCATGGATTGGATT
>NF1_LsgRNA253
CTGGCTCTGCAGTGCAGGAGGGTAAGGAGA
>NF1_LsgRNA254
GTAGCTCTTGTCTGGAGATCCTTGTGGTAA
>NF1_LsgRNA255
GACACTGAACTTTACGTAAATGTGGGTGC
>NF1_LsgRNA256
CCCCTGAGAACAAGGAACACATTGGCCA
>NF1_LsgRNA257
CCTACTGCACCGATGCTGTTCTGAGGGAAA
>NF1_LsgRNA258
CCCTCTGCAGCCTGAAGAAGGAGATGGTGT
>NF1_LsgRNA259
ATATCTGCTTCCTCACAGAGGTGGCGGAAA
>NF1_LsgRNA260
CTGACTGGCCTCAAAGGTAGCAAAGGCTT
>NF1_LsgRNA261
ATGACTGGCTTCCTTTGTGCCCTTGGGGGA
>NF1_LsgRNA262
TGGTCTGGGCTTGTTCGGCAAATCGGGGGG
>NF1_LsgRNA263
TTCCTGTTTTCTTCATCAATTCCAGGCAG
>NF1_LsgRNA264
ACACCTGTCAGCAAATTTATGGATCGGCTG
>NF1_LsgRNA265
TCCACTGTTACAGTGGCCAGTGGTAGGGGA
>NF1_LsgRNA266
TTTACTTAAGAAATAACTGTGATTTGGCTT
>NF1_LsgRNA267
AATACTTACACAAAGCAAGAGCTTTGGATC
>NF1_LsgRNA268
TGTCCCTCAACAATTCCTTGATGTGGCAG
>NF1_LsgRNA269
TCAACTTCACTGCAGTCATTCAAAGGTTT
>NF1_LsgRNA270
CCTGCTTCTTTACAGGTTATTGGAAGGATG
>NF1_LsgRNA271
TGTTCTTGCAACAATAGCAGGTGAAGGATG
>NF1_LsgRNA272
TTTCCTTGCAGAATCCAAGAAAACAGGGGC

>NF1_LsgRNA273
GTGGCTTGGGATCAATAAAAGCTGAGGTGA
>NF1_LsgRNA274
GATACTTGGTGTACTCCCTGACCCAGGAGT
>NF1_LsgRNA275
CCTACTTTAGAACAACATCTTATGTGGGAT
>NF1_LsgRNA276
AGGGCTTTGTGCAGAGGCGAGTCCTGGCAA
>NF1_LsgRNA277
ATGTGAAAAGATGACAAACCTGGTAGGATC
>NF1_LsgRNA278
CCAGGAAATCCATGAGCCTGGACATGGGGC
>NF1_LsgRNA279
ACTAGAACAGTAAGAAGCAGCGCCTGGATC
>NF1_LsgRNA280
CATAGAACCCTTACGTTCACTGACTGGACC
>NF1_LsgRNA281
AGCTGAACTTCGGAATTCTGCCTCTGGGGT
>NF1_LsgRNA282
TCATGAAGAATTACTACGTACTCCTGGAGC
>NF1_LsgRNA283
AGTTGAAGATGAAAGTGCGCAAACAGGTGG
>NF1_LsgRNA284
TACTGAAGGCAGCTCTGAACATCTAGGGCA
>NF1_LsgRNA285
ATAGGAAGGGTCACCATGATGAATGGGATA
>NF1_LsgRNA286
GAGAGAATGACCTGTCCCGTAACTGGAAC
>NF1_LsgRNA287
TAGAGACAATAAAGAGGGTGTGTTGGCAG
>NF1_LsgRNA288
TACGGACCAATGTTAAGGATCTGGTGGGTC
>NF1_LsgRNA289
GCTGGACCAGTGTGTATCTGCCACAGGTTT
>NF1_LsgRNA290
CCTTGA CTCTCAGGATAGTGCAGCAGGATG
>NF1_LsgRNA291
GAAAGACTTTGGGAAACACAACACTGGCCT
>NF1_LsgRNA292
ATAAGAGAACACTTTACCTGTCCCTGGGAG
>NF1_LsgRNA293
GCCTGAGAAGGTTGCCCATGTCCAGGCTC
>NF1_LsgRNA294
AGCTGAGAGAAAATAAAACCCCAGAGGCAG

>NF1_LsgRNA295
ATGAGAGATATTCCAACGTGCAAGTGGCTG
>NF1_LsgRNA296
TTGAGAGCATTGTGGAATACCTTCAGGTCC
>NF1_LsgRNA297
CTGTGAGGAAGCAGATATCCGGTGTGGGGT
>NF1_LsgRNA298
TGATGAGGTCAACTTGTATTCAGCAGGTAC
>NF1_LsgRNA299
AGGAGAGTAAATCCACTTACCTATAGGAAG
>NF1_LsgRNA300
AATAGAGTCCAGAGGAAGTATTTATGGCAA
>NF1_LsgRNA301
TGGCGAGTTCGTCCACTGTTACAGTGGCCA
>NF1_LsgRNA302
AGCAGATAATCCGTATTCTTAGCAAGGTAC
>NF1_LsgRNA303
TATGGATACATATCCCATTTCATCATGGTGA
>NF1_LsgRNA304
TCCAGATACATTTATTTACTTTGCAGGTAA
>NF1_LsgRNA305
TTTGGATATATCCTGGATTATTTCTGGACA
>NF1_LsgRNA306
TTTGGATCTTGGCACAATGATAACAGGGTG
>NF1_LsgRNA307
TGAAGATGAAAGTGCGCAAACAGGTGGCAG
>NF1_LsgRNA308
ATTGGATTTAACAAATTTGGATCTTGGCAC
>NF1_LsgRNA309
CTATGATTTTCAGTGATGTCTTCAGAGGGAA
>NF1_LsgRNA310
TCAAGCAAAAATATGGGGAAGCCTTGGGCA
>NF1_LsgRNA311
TTGAGCAAACCTCAATACCTGCCCAAGGCTT
>NF1_LsgRNA312
GATGGCAACACTTCTTGCATACCTGGGTCC
>NF1_LsgRNA313
ATTGGCAACATGTTAGCTTTGAAGTGGATC
>NF1_LsgRNA314
CCTGGCAACCTATAGCCCACCCATGGGTCC
>NF1_LsgRNA315
ACTTGCAACTTCCCAGCATTCCCCAGGTCA
>NF1_LsgRNA316
AAAAGCAACTTTGATGCAGCACGCAGGTAA

>NF1_LsgRNA317
AGTGGCACACACTTCGAAGTTGAGGGGGGA
>NF1_LsgRNA318
AAAGGCACTTGAGAGTTGCTTAAAAGGACC
>NF1_LsgRNA319
TTCTGCACTTGGCTTGGGATCCGTGGCGA
>NF1_LsgRNA320
AGTAGCAGAAACTGATTATGAAATGGGTGA
>NF1_LsgRNA321
TCCAGCAGAGAAGCAATTCTGGCCTGGCAA
>NF1_LsgRNA322
TTCAGCAGAGCGAACAAAAGTCCTAGGGCA
>NF1_LsgRNA323
GGTGGCAGGAAACGTGGCATGTCTCGGAGG
>NF1_LsgRNA324
CAGTGCAGGAGGGTAAGGAGATGTGGGAGT
>NF1_LsgRNA325
GGAAGCAGTAGTTTCACTTCTAGCTGGTCT
>NF1_LsgRNA326
TAATGCCAAACAGCAAGTAAAATTTGGGTA
>NF1_LsgRNA327
TCAGGCCAACACTAAGAAGTTGCTTGGTTA
>NF1_LsgRNA328
ATCTGCCACAGGTTTGTGCTCTGGAGGACC
>NF1_LsgRNA329
AAAAGCCACCACCTAGAATCGAAAGGGGCT
>NF1_LsgRNA330
GTCCGCCAGACCAGTCCCCGAGCCAGGAAA
>NF1_LsgRNA331
TCTTGCCCAACTATAACACATTCATGGAGT
>NF1_LsgRNA332
GCACGCCGCTCACCTTCATGCACCAGGAGT
>NF1_LsgRNA333
TGTTGCCTCGGAAGAGAGTCTGCATGGAGT
>NF1_LsgRNA334
TGGAGCCTCTCTCCGGAAGGGAAAAGGGAA
>NF1_LsgRNA335
TGCAGCCTGAAGAAGGAGATGGTGTGGAAT
>NF1_LsgRNA336
TAATGCGATATTGAGCAGTGTCCCAGGGAC
>NF1_LsgRNA337
TAAAGCGATTGCTAGGCCCGGTATGGGTAA
>NF1_LsgRNA338
CAAAGCTAACATGTTGCCAATCAGAGGATG

>NF1_LsgRNA339
CCAGGCTCATGGATTTCTGGCTCGGGGAC
>NF1_LsgRNA340
CTCTGCTGGAGGCACACTCCCCAAGGGCA
>NF1_LsgRNA341
CTAAGCTGGCTCTGCAGTGCAGGAGGGTAA
>NF1_LsgRNA342
TTCTGCTGTACTGCCTTGGGTTTCGGGCCC
>NF1_LsgRNA343
AATGGCTTACTTGGATTAAAAAGCAGGTTC
>NF1_LsgRNA344
GTTAGCTTTGAAGTGGATCCTACCAGGTTT
>NF1_LsgRNA345
GGCAGGAAACGTGGCATGTCTCGGAGGCTG
>NF1_LsgRNA346
CTCTGGAACAATCAGGAGAAAATGGGCAG
>NF1_LsgRNA347
CTTGGGAAGATACACATGCAAAATGGGAAC
>NF1_LsgRNA348
TATAGGAAGGGTCACCATGATGAATGGGAT
>NF1_LsgRNA349
GCTGGGAAGTTGCAAGTGAGGTCATGGAAT
>NF1_LsgRNA350
TCATGGAATTAGAAAGGTTAAGGTTGGCAG
>NF1_LsgRNA351
ACTTGGACAGCAGTAGAACCAACCTGGAAA
>NF1_LsgRNA352
GGGAGGACATGGCCGCGCACAGGCCGGTGG
>NF1_LsgRNA353
GCCTGGACATGGGGCAACCTTCTCAGGCCA
>NF1_LsgRNA354
TCGGGGACTGGTCTGGCCGACAGTTGGATA
>NF1_LsgRNA355
ATACGGAGACTATCTAAAGTATGCAGGTTT
>NF1_LsgRNA356
CTTGGGAGTCAAAAACTTGCTGATGGTAT
>NF1_LsgRNA357
CTCTGGAGTGGCACTGCAAGCAAATGGATC
>NF1_LsgRNA358
CACCGGATATCTGCTTCCTCACAGAGGTGG
>NF1_LsgRNA359
CTATGGATCCTCCTCCACTCACATGGGACA
>NF1_LsgRNA360
TTATGGATCGGCTGTTGTCTTAATGGTGT

>NF1_LsgRNA361
CTCAGGATGAACTAGCTCGAGTTCTGGTTA
>NF1_LsgRNA362
GGTAGGATGTGATATTCCTTCTAGTGGAAA
>NF1_LsgRNA363
TCATGGATTTCTGGCTCGGGGACTGGTCT
>NF1_LsgRNA364
AGATGGCAACACTTCTTGACATACCTGGGTC
>NF1_LsgRNA365
GCCTGGCAACCTATAGCCCACCCATGGGTC
>NF1_LsgRNA366
CAGTGGCACACACTTCGAAGTTGAGGGGGG
>NF1_LsgRNA367
TGATGGCAGATACTGCTGTAGCTTTGGCTT
>NF1_LsgRNA368
ATTGGGCAGTATCTTTCCAGCAACAGGTAA
>NF1_LsgRNA369
GGCTGGCATCACTGAGGCACTGTACGGTCC
>NF1_LsgRNA370
ACAGGGCCACTTCTAGTTTGGTCTGGGCTT
>NF1_LsgRNA371
GCCAGGCCAGAATTGCTTCTCTGCTGGAGG
>NF1_LsgRNA372
CGAGGGCCAGTTACTAGAGACATCAGGTTT
>NF1_LsgRNA373
TTTTGGCCGAATCTTGGTGTGTTGGGGGAT
>NF1_LsgRNA374
TCCAGGCTCATGGATTTCTGGCTCGGGGA
>NF1_LsgRNA375
CAAAGGCTCCTAAAAGGCAAGAAATGGAAT
>NF1_LsgRNA376
TGCAGGCTGACTGCCTCTTGAGAATGGCTT
>NF1_LsgRNA377
TATTGGCTGATCGGTTTGGAGAGATTGGTGG
>NF1_LsgRNA378
CTGTGGCTGTGCTGCAGCTTGATGAGGTCA
>NF1_LsgRNA379
GACTGGCTTCCTTTGTGCCCTTGGGGGAGT
>NF1_LsgRNA380
CTTTGGCTTCTGGAAATGTGAAATTGTTT
>NF1_LsgRNA381
TCTGGGCTTGTTCGGCAAATCGGGGGGTTTC
>NF1_LsgRNA382
CCTTGGCTTTAGAAGAGGACCTGAAGGTAT

>NF1_LsgRNA383
GGAAGGAAAAGGGAACCTCTCTATGGTCA
>NF1_LsgRNA384
GCTTGGGAAGATACACATGCAAAAATGGGAA
>NF1_LsgRNA385
CGCGGGGAGGACATGGCCGCGCACAGGCCG
>NF1_LsgRNA386
GTCTGGGCTTGTCTGGCAAATCGGGGGGGTT
>NF1_LsgRNA387
CCATGGGTCCAGTCAGTGAACGTAAGGGTT
>NF1_LsgRNA388
GGAGGGTAAGGAGATGTGGGAGTCAGGAGG
>NF1_LsgRNA389
CCGTGGTCAGCCGCTTCGACGAGCAGGTAA
>NF1_LsgRNA390
CATGGGTCCAGTCAGTGAACGTAAGGGTTC
>NF1_LsgRNA391
GACTGGTCTGGCCGACAGTTGGATAGGTGG
>NF1_LsgRNA392
GGCCGGTGAATGGGTCCAGGCCGTGGTCA
>NF1_LsgRNA393
TAATGGTGTGTAACCATGAGAAAGTGGGAC
>NF1_LsgRNA394
TCTTGGTGTGTTGGGGGATAGAGTCGGGCT
>NF1_LsgRNA395
TTAAGGTTGGCAGTGATACTAAGCTGGCTC
>NF1_LsgRNA396
CCCCGTAAAAAAGGAGAAAGTGACAGGAAC
>NF1_LsgRNA397
TACAGTAATTACCTTATTAAGAAGTGGCTG
>NF1_LsgRNA398
ACATGTACAGGGCCACTTCTAGTTTGGTCT
>NF1_LsgRNA399
CTACGTACTCCTGGAGCCTCTCTCCGGAAG
>NF1_LsgRNA400
CTTAGTAGCACAGAAATTCTCAAGTGGTTG
>NF1_LsgRNA401
AATTGTAGTGGACCTTACCCATACCGGGCC
>NF1_LsgRNA402
ACTGGTCACAATGATGGGTGATCAAGGAGA
>NF1_LsgRNA403
CTCTGTCAGCAATATGATGTCAACAGGTAA
>NF1_LsgRNA404
CCATGTCCAGGCTCATGGATTTCTGGCTC

>NF1_LsgRNA405
TTCAGTCCATGGTGGTTGATCTTAAGGTAA
>NF1_LsgRNA406
ACCAGTCCATGTGTGGAAGCTCTAAGGGAG
>NF1_LsgRNA407
ACCTGTCCCGGTAAGTGAACGGAAGGCAA
>NF1_LsgRNA408
TCAGGTCCTCTTCTAAAGCCAAGGTGGCAG
>NF1_LsgRNA409
AAAAGTCTCTCTCATAGGAGCCAGGAGA
>NF1_LsgRNA410
CAGTGTCTGAATCAAATGTTCTCTTGGATG
>NF1_LsgRNA411
ATTTGTCTGACACAGACTCCCTACAGGAAT
>NF1_LsgRNA412
TTTGGTCTGGGCTTGTCGGCAAATCGGGGG
>NF1_LsgRNA413
GGGAGTCTGTGTCAGACAAATCTATGGATC
>NF1_LsgRNA414
GCAAGTGAGGTCATGGAATTAGAAAGGTTA
>NF1_LsgRNA415
GGATGTGATCACAATTCGTAATAAAGGATC
>NF1_LsgRNA416
CCAAGTGCAGAAGCAAAGAAGCGCTGGCAG
>NF1_LsgRNA417
ATGTGTGGAAGCTCTAAGGGAGAGCGGACC
>NF1_LsgRNA418
CACTGTTACAGTGGCCAGTGGTAGGGGAGA
>NF1_LsgRNA419
CGTTGTTACTTTCTTAGTAGCCACAGGTCC
>NF1_LsgRNA420
CGCAGTTAGCAGTTATAAATAGCCTGGAAA
>NF1_LsgRNA421
GAACGTTGAACTCTCCCCTACCACTGGCCA
>NF1_LsgRNA422
CTCGGTTGAACTTCGAAATATGTTTGGTGA
>NF1_LsgRNA423
CTCAGTTGATTATATTGGATACACTGGAAA
>NF1_LsgRNA424
CTTGGTTGCAGGGATGGATTATATTGGAAT
>NF1_LsgRNA425
ATCGGTTTGAGAGATTGGTGGAAGTGGTCA
>NF1_LsgRNA426
ACAGGTTTGTGCTCTGGAGGACCCAGGTAT

>NF1_LsgRNA427
ATTTTAAAAAACCTACCGTAAACTCGGGTC
>NF1_LsgRNA428
ACAATAAAGAGGGTGTGTGGCAGGGATA
>NF1_LsgRNA429
ACCTTAAAGTGTGGTTGTTGTGAGGGCTT
>NF1_LsgRNA430
TTTTTTAAATTAAAGGTACAAGTTAAGGCAC
>NF1_LsgRNA431
CATTTAAATTTAAAGCCCTAAAGAAGGTTG
>NF1_LsgRNA432
GGAATAAATTTCTTCTTAAAAATAAGGTAA
>NF1_LsgRNA433
ATTCTAACGTGAGGTGTGGCTCATTTGGCTG
>NF1_LsgRNA434
TCCTTAACTATCCAAAAGCCAAAATGGAAG
>NF1_LsgRNA435
CTGCTAACTGCGCAACCTTCTTTAGGGCTT
>NF1_LsgRNA436
CAGGTAAGATGTTTGGTATTGTGGTGGGGA
>NF1_LsgRNA437
AAGTTAAGGCACACAGAAGATTATAGGCAG
>NF1_LsgRNA438
GCTATAAGTATCTTCTTGTCCATGGTGA
>NF1_LsgRNA439
TAATTAATTCTGCTGTACTGCCTTGGGTTT
>NF1_LsgRNA440
TACTTACACAACAGGAAAGACTTTGGGAAA
>NF1_LsgRNA441
CAGATACACCTGTCAGCAAATTTATGGATC
>NF1_LsgRNA442
ATTATACATTTAAACTTACCCTTCAGGAGT
>NF1_LsgRNA443
TCCTTACCAGCCATATCAGTCTGTGGGATC
>NF1_LsgRNA444
GGCATACTCAGTGTTTCTGCAGTGGGAT
>NF1_LsgRNA445
AGAATACCTGACAGACTGGGTTATGGGAAC
>NF1_LsgRNA446
GACTTACCTGGCCATCTTCCATTTTGGCTT
>NF1_LsgRNA447
CTTGTACCTTTAATTTAAAAATCGAGGGCC
>NF1_LsgRNA448
ATTTTACTGGCCAAGCTGTTGCCTCGGAAG

>NF1_LsgRNA449
CTTTTACTGTAGCTTTATTTCAGTAGGGAGT
>NF1_LsgRNA450
TATTTACTTTGCAGGTAAGATGTTTGGTAT
>NF1_LsgRNA451
AATGTAGAAGGTGAATTCTGAGCCAGGCAG
>NF1_LsgRNA452
ACTGTAGCTTTATTTCAGTAGGGAGTGGCAA
>NF1_LsgRNA453
CAATTAGTTGAAGTAATGATGGCAAGGAGA
>NF1_LsgRNA454
TCTATATAGGTATGTTTCGTGTGCTTGGGAA
>NF1_LsgRNA455
CAAGTATCATGAGCGGCTGCTGACTGGCCT
>NF1_LsgRNA456
CGGATATCTGCTTCCTCACAGAGGTGGCGG
>NF1_LsgRNA457
TATTTATGGCAATCCGGAATCCTCTGGAGT
>NF1_LsgRNA458
GAGATATCCAACGTGCAAGTGGCTGGACC
>NF1_LsgRNA459
GACTTCAAATACGGACCAATGTTAAGGATC
>NF1_LsgRNA460
CTCTTCACAAAAGAAGAACATATGCGGCCT
>NF1_LsgRNA461
GCCCTCACAACAACCAACTTTAAGGTGA
>NF1_LsgRNA462
GGGATCACAACACCCCCAAAATGAGGAGA
>NF1_LsgRNA463
ACGTTCACTGACTGGACCCATGGGTGGGCT
>NF1_LsgRNA464
CTAATCACTTACCCACTGAGAACAAGGAAC
>NF1_LsgRNA465
TTGATCACTTGATATCAGACACAAAGGCTC
>NF1_LsgRNA466
TCTGTCAGCTGCCTACTTCCTCCATGGCCA
>NF1_LsgRNA467
AATTTTCATATGGCTTTGCATAATATGGCTT
>NF1_LsgRNA468
AATTTTCATCTCTTGGCAAAAATGAGAGGTCA
>NF1_LsgRNA469
TCAGTCATCTGAAGGAGGTTCCGCTGGTTT
>NF1_LsgRNA470
GAGGTCATGGAATTAGAAAGGTTAAGGTTG

>NF1_LsgRNA471
CCAGTCATGTTGATCCATTCTGTAGGGAG
>NF1_LsgRNA472
CAATTCCACACCATCTCTTCTTCAGGCTG
>NF1_LsgRNA473
TTCGTCCACTGTTACAGTGGCCAGTGGTAG
>NF1_LsgRNA474
ATTGTCCAGTCTATCATTTCATATCCGGACC
>NF1_LsgRNA475
AAACTCCATGAATGTGTTATAGTTGGGCAA
>NF1_LsgRNA476
CCAGTCCATGTGTGGAAGCTCTAAGGGAGA
>NF1_LsgRNA477
TTGATCCCAAGCCACCTGTTGCACTGGTTT
>NF1_LsgRNA478
AGCATCCCACTGCAGGAAACACTGAGGTAT
>NF1_LsgRNA479
TCTATCCCCCAACACACCAAGATTCGGCCA
>NF1_LsgRNA480
GCTCTCCCTTAGAGCTTCCACACATGGACT
>NF1_LsgRNA481
GCCTTCCGTTCCAGTTACCGGGACAGGTCA
>NF1_LsgRNA482
TGGGTCTCCAGAGCACAAACCTGTGGCAG
>NF1_LsgRNA483
ATGGTCTCTCCCAAAGGTTCTGAAGGATA
>NF1_LsgRNA484
GTA CTCTGGAGCCTCTCTCCGGAAGGGAA
>NF1_LsgRNA485
GATTTCTGGCTCGGGGACTGGTCTGGCCG
>NF1_LsgRNA486
ACACTCCTGGTGCATGAAGGTGAGCGGCGT
>NF1_LsgRNA487
GGTATCCTTCAGAACCTTTGGGAGAGGACC
>NF1_LsgRNA488
TACATCGTCTACTCTGGAACAATCAGGAGA
>NF1_LsgRNA489
TTTATCTAAAATCCCTGCTTCATACGGTGA
>NF1_LsgRNA490
AAGCTCTAAGGGAGAGCGGACCTGTGGCTA
>NF1_LsgRNA491
TTCATCTAATCTCATTGTGTCCTTTGGTTG
>NF1_LsgRNA492
TGTATCTAGGGATCATAAAGCTGTTGGAAG

>NF1_LsgRNA493
TTTCTCTAGTCCGCATTGGATTGGTGGCCT
>NF1_LsgRNA494
GCAATCTCTGGCATGTGTGACTGAGGGACC
>NF1_LsgRNA495
TGTATCTGCCACAGGTTTGTGCTCTGGAGG
>NF1_LsgRNA496
TTGGTCTGGGCTTGTCTGGCAAATCGGGGGG
>NF1_LsgRNA497
CACCTCTGTGAGGAAGCAGATATCCGGTGT
>NF1_LsgRNA498
CGCCTCTTAACAATGGTCTTGTGAAGGCTT
>NF1_LsgRNA499
CACTTCTTCTTACTGATATTTCAATGGAAA
>NF1_LsgRNA500
GCAGTCTTTAGTCGCATTTCTACCAGGTTA
>NF1_LsgRNA501
GAATTCTTTATGAATACTTAGCAGAGGCCA
>NF1_LsgRNA502
GCATTGAAACAATGATGTTAAATCTGGTCA
>NF1_LsgRNA503
ACTTTGAACTGGTAAGGTTAAGGCTGGACC
>NF1_LsgRNA504
GGTGTGAAGAAAATGGCAGATTTCTGGCAG
>NF1_LsgRNA505
AATTTGAAGTGAATACACAGAGCGTGGCCT
>NF1_LsgRNA506
ATGATGAATGGGATATGTATCCATAGGAAC
>NF1_LsgRNA507
GTATTGAATTGAAACACCTTTGTTTGAAT
>NF1_LsgRNA508
CATTTGACTGGTATTTCCACTAGAAGGAAT
>NF1_LsgRNA509
GCATTGAGTAAGTTTGACATTGCAAGGACC
>NF1_LsgRNA510
TGGTTGATGAAAACAACATGAATAAGGTAA
>NF1_LsgRNA511
AGATTGATGCTGTGTATTGTCACTCGGTTG
>NF1_LsgRNA512
ACTATGATTTACTGCATCACTTGTAGGACA
>NF1_LsgRNA513
TCCTTGCAGAATCCAAGAAAACAGGGGCC
>NF1_LsgRNA514
GCAGTGCAGGAGGTAAGGAGATGTGGGAG

>NF1_LsgRNA515
GATCTGCATGAATTAGTTTCACCATGGACA
>NF1_LsgRNA516
CTGCTGCCACCTTGGCTTTAGAAGAGGACC
>NF1_LsgRNA517
TCATTGCCTTCCGTTCCAGTTACCGGGACA
>NF1_LsgRNA518
TGGTTGCGGGAAATATTGATCTGCAGGAAT
>NF1_LsgRNA519
ATTCTGCTGTACTGCCTTGGGTTTCGGGCC
>NF1_LsgRNA520
CCGATGCTGTTCTGAGGGAAACGCTGGCTA
>NF1_LsgRNA521
TCCCTGCTTCATACGGTGAGACAATGGCAG
>NF1_LsgRNA522
CATTTGCTTGCAGTGCCACTCCAGAGGATT
>NF1_LsgRNA523
TACTTGCTTTACACAGTTTGACACAGGCAA
>NF1_LsgRNA524
ACTCTGGAACAATCAGGAGAAAATTGGGCA
>NF1_LsgRNA525
TGACTGGACCCATGGGTGGGCTATAGGTTG
>NF1_LsgRNA526
TCTATGGATCCTCCTCCACTCACATGGGAC
>NF1_LsgRNA527
TCCATGGATTGGATTTAACAAATTTGGATC
>NF1_LsgRNA528
ACAGTGGCACACACTTCGAAGTTGAGGGGG
>NF1_LsgRNA529
ACATTGGCCAGAGCCATCGCTATAGGGAGT
>NF1_LsgRNA530
CTTTTGGCCGAATCTTGGTGTGTTGGGGGA
>NF1_LsgRNA531
TGACTGGCTTCCTTTGTGCCCTTGGGGGAG
>NF1_LsgRNA532
TGACTGGGAAATCTTACCTGTTGCTGGAAA
>NF1_LsgRNA533
GGTCTGGGCTTGTTCGGCAAATCGGGGGGGT
>NF1_LsgRNA534
CCCATGGGTGGGCTATAGGTTGCCAGGCCA
>NF1_LsgRNA535
CCACTGGTCCAGCCACTTGCACGTTGGAAT
>NF1_LsgRNA536
GTTCTGGTTACTCTGTTTGATTCTCGGCAT

>NF1_LsgRNA537
TTATTGTCTCTATTAGTAAGACACTGGCAG
>NF1_LsgRNA538
GAAATGTGAAATTGGTTTCAAGCAAGGTAA
>NF1_LsgRNA539
CCACTGTTACAGTGGCCAGTGGTAGGGGAG
>NF1_LsgRNA540
GGTATGTTTCGTGTGCTTGGGAATATGGTCC
>NF1_LsgRNA541
AAGATGTTGTTCTAAAGTAGGAGTTGGAGA
>NF1_LsgRNA542
CATCTGTTTGTCCACATTAGGCTTAGGTTA
>NF1_LsgRNA543
TTTTTTAAAAAATTCAGGCTCTGCTGGTTC
>NF1_LsgRNA544
CACCTTAAAGTGTGGTTGTTGTGAGGGCT
>NF1_LsgRNA545
GGCTTTAAATTTAAATGCTGTTTCTGGAAA
>NF1_LsgRNA546
GTAATTAATTCTGCTGTACTGCCTTGGGTT
>NF1_LsgRNA547
ATACTTACACAACAGGAAAGACTTTGGGAA
>NF1_LsgRNA548
CATTTTACATCATCATCTGCTGCTTGGTTT
>NF1_LsgRNA549
TTGCTTACCTTGTCATTGAATATACGGAGA
>NF1_LsgRNA550
ACATTTACTGACCTGGGGAATGCTGGGAAG
>NF1_LsgRNA551
TCTTTTACTGTAGCTTTATTTCAGTAGGGAG
>NF1_LsgRNA552
GGGCTTATACGAAAGCAAGAAACAAGGCAG
>NF1_LsgRNA553
ATGATTATCTTTAATAGAGTCCAGAGGAAG
>NF1_LsgRNA554
TAGGTTCAAACCTGGTCAAATCAATGGTGA
>NF1_LsgRNA555
TAACTTCAAGCCCCTTTCGATTCTAGGTGG
>NF1_LsgRNA556
ATATTTCAATGGAAAATGTTCCCTATGGATA
>NF1_LsgRNA557
ATTCTTCAATTTGTTAAATAGCATTGGATA
>NF1_LsgRNA558
AGCCTTCACAAGACCATTGTTAAGAGGCGA

>NF1_LsgRNA559
CAGTTTCATCAAAACCAGTGCAACAGGTGG
>NF1_LsgRNA560
TGTTTTTCATCTTTCAGGACACTAAAGGAGA
>NF1_LsgRNA561
GATGTTCCCATAACCCAGTCTGTCAGGTAT
>NF1_LsgRNA562
AAGATTTCGGCCAAAAGATGTCCCTGGGACA
>NF1_LsgRNA563
GTTTTTCTCTAGTCCGCATTGGATTGGTGG
>NF1_LsgRNA564
GGAATTCTGAGGAGGAACTGATGATGGCAT
>NF1_LsgRNA565
CAGTTTCTGCTACTCTCCTCATTTTGGGGG
>NF1_LsgRNA566
CAACTTCTTAGTGTTGGCCTGAGAAGGTTG
>NF1_LsgRNA567
GTGGTTCTTTATTTATAGGCATTTTGGAAC
>NF1_LsgRNA568
TGCCTTGATTGACACGTACCTGCCTGGAAT
>NF1_LsgRNA569
TTCCTTGCAGAATCCAAGAAAACAGGGGCC
>NF1_LsgRNA570
AAGGTTGCCCCATGTCCAGGCTCATGGATT
>NF1_LsgRNA571
GAACTTGCTAGATAATCATACTGAAGGCAG
>NF1_LsgRNA572
GCTCTTGCTGGCCATGGAGGAAGTAGGCAG
>NF1_LsgRNA573
TTCTTTGCTTCTGCACTTGGCTTGCGGATC
>NF1_LsgRNA574
GTGCTTGCTTTACATCGTCTACTCTGGAAC
>NF1_LsgRNA575
CACATTGGCCAGAGCCATCGCTATAGGGAG
>NF1_LsgRNA576
GCCATTGTCTCACCGTATGAAGCAGGGATT
>NF1_LsgRNA577
CGAATTGTGATCACATCCTCTGATTGGCAA
>NF1_LsgRNA578
CTATTTTAAAGAATGTTAACAATATGGTGA
>NF1_LsgRNA579
GAATTTTACATACTACTAACTCTGGTTA
>NF1_LsgRNA580
CACATTTACTGACCTGGGGAATGCTGGGAA

>NF1_LsgRNA581
 CTACTTTAGAACAAACATCTTATGTGGGATG
 >NF1_LsgRNA582
 TTTTTTTCAGCTTCCAATAAAAAACAGGACA
 >NF1_LsgRNA583
 TCATTTTCCTACTTGTTTCAGTCCATGGTGG
 >NF1_LsgRNA584
 CCATTTTCTTCACACCTGTTCGTGAAGGAAA
 >NF1_LsgRNA585
 CTGGTTTCTTCATCAATTCCAGGCAGGTAC
 >NF1_LsgRNA586
 CGTATTTGAAGTCCCACTTTCTCATGGTTA
 >NF1_LsgRNA587
 TACCTTTGAGCTAGTTCTGTCCACTGGTCC
 >NF1_LsgRNA588
 TCATTTTGCCAAGAGATGAAATTTAGGTGA

(28) S_{11}^- : 178 low on-target activity sgRNAs targeting NF2

>NF2_LsgRNA1
 TCCGAAACATCTCGTACAGTGACAAGGAGG
 >NF2_LsgRNA2
 CTTCAAAGAAGGCCACTCGGGACTTGGCGC
 >NF2_LsgRNA3
 CCTCAAAGCTTCGTGTTAATAAGCTGGTAA
 >NF2_LsgRNA4
 CTGAAAAGGCCAGATCACCGAGGAGGAGG
 >NF2_LsgRNA5
 CCAAAAAATCCCCGCTTGTGAACACTGGGGT
 >NF2_LsgRNA6
 TAATAAATCTGTATCAGATGACTCCGGAAA
 >NF2_LsgRNA7
 GATAAAATTTGGCCAAGAAGTGAAAGGTGA
 >NF2_LsgRNA8
 TCGAAAGACAGGCTGTCACCAATGAGGTTG
 >NF2_LsgRNA9
 AGCGAAGAGCCAAGCAGAAGCTCCTGGAGA
 >NF2_LsgRNA10
 GCCCAAGAGGAATTGCTTCCAAAAAGGGTA
 >NF2_LsgRNA11
 CAAAAATCCCCGCTTGTGAACACTGGGGTC
 >NF2_LsgRNA12
 TGGCAATCTCCAGGAGCTTCTGCTTGGCTC
 >NF2_LsgRNA13
 GCACAATGAGAACTCCGACAGGGGTGGCAG

>NF2_LsgRNA14
TCACACAACATTTATTCTTCTTACAGGTAC
>NF2_LsgRNA15
AAGAACCAGTCACCTTTCACTTCTTGGCCA
>NF2_LsgRNA16
AAGGACCTCTTTGATTTGGTGTGCCGGACT
>NF2_LsgRNA17
CCTCAGAAATCACCAGTGCTTCGTTGGCCA
>NF2_LsgRNA18
CCCAAGAGGAATTGCTTCCAAAAAGGGTAA
>NF2_LsgRNA19
CCAAAGAGGCAGATCAGCTGAAGCAGGACC
>NF2_LsgRNA20
CTGAAGATGGCTGAGGAGTCAGAGAGGAGG
>NF2_LsgRNA21
CTTCAGCATTCTCAGGATAAAAATTTGGCCA
>NF2_LsgRNA22
TGAAAAGCCCAGGCCAGGGAGGAGAAGGCTA
>NF2_LsgRNA23
AACCAGCTCCTCTTCAGCATTCTCAGGATA
>NF2_LsgRNA24
AGACAGCTGACCTGTTGGCTGAAAAGGCCCC
>NF2_LsgRNA25
AGCCAGGAGCACAGAAGCCTCAGGAGGGCA
>NF2_LsgRNA26
ATCGAGGCCTTGAAACTGAAAGAGAGGGAG
>NF2_LsgRNA27
GGAAAAGGAAGGACCTCTTTGATTTGGTGT
>NF2_LsgRNA28
AATGAGGTTGAAGCTTGGTATGTCAGGAGG
>NF2_LsgRNA29
AAGTAGTTCACACCGTACATCTCCAGGTCC
>NF2_LsgRNA30
TGGAAGTTCAGCAGATGAAAGCCCAGGCCA
>NF2_LsgRNA31
TGACATACCAAGCTTCAACCTCATTGGTGA
>NF2_LsgRNA32
CTGTATCAGATGACTCCGGAAATGTGGGAG
>NF2_LsgRNA33
AACCATGATCTATTTATGAGGAGAAGGAAA
>NF2_LsgRNA34
TGGTATGTCAGGAGGCAACGGTGCTGGAAT
>NF2_LsgRNA35
TTTCATTCCACGGGAAGGAGATCTTGGGGG

>NF2_LsgRNA36
AGTAATTCTCTCCTCCCACATTTCCGGAGT
>NF2_LsgRNA37
TCTTATTGGATCCACAGAATAAAAAGGGCA
>NF2_LsgRNA38
GCAGCAAGCACAATACCATTAAAAAGGTAC
>NF2_LsgRNA39
GCATCAAGGCCACAGCGATTTCGCACGGAGG
>NF2_LsgRNA40
TACACAATCAAGGACACAGTGGCCTGGCTC
>NF2_LsgRNA41
TCTGCACAATGAGAACTCCGACAGGGGTGG
>NF2_LsgRNA42
AGGGCACAGAGCTGCTGCTTGGAGTGGATG
>NF2_LsgRNA43
AGGACACAGTGGCCTGGCTCAAAATGGACA
>NF2_LsgRNA44
TACGCAGAGCACCGAGGCCGAGCCAGGTGA
>NF2_LsgRNA45
GCCACAGATTCTCCAGCTATGTATCGGGAA
>NF2_LsgRNA46
CAGCCATCTTCAGTGCCAGCACCTCGGCTT
>NF2_LsgRNA47
AGCTCATGCGGGAAGCGATGGCCCCGGCCA
>NF2_LsgRNA48
AGATCATGGTTCCCGATACATAGCTGGAGA
>NF2_LsgRNA49
GCTGCATTTCTGCTCAGCCTCTGCGGCCT
>NF2_LsgRNA50
CTCCCCACAGGGATGAAGCTGAAATGGAAT
>NF2_LsgRNA51
GCTTCCAGCACCTTCTGCTCCATCAGGCGC
>NF2_LsgRNA52
TTATCCAGTGGTTTAATAGTAAACTGGAAG
>NF2_LsgRNA53
TCTTCCAGTTTACTATTAAACCACTGGATA
>NF2_LsgRNA54
GGCCCCCAGGCTCACCGGGTACGTGGGCTT
>NF2_LsgRNA55
TGGCCCCCAGGCTCACCGGGTACGTGGGCT
>NF2_LsgRNA56
CTGACCCCCAAGATCTCCTTCCCGTGAAT
>NF2_LsgRNA57
CGCTCCGCCTCGCGTGCTTCTGCAGGTCC

>NF2_LsgRNA58
CGGGCCTGAGCCCCGCGCCATGGCCGGGGC
>NF2_LsgRNA59
AGCGCCTGATGGAGCAGAAGGTGCTGGAAG
>NF2_LsgRNA60
TTGGCCTGGACGGCGTAAGAAGCCAGGAGC
>NF2_LsgRNA61
TGCTCCTGGCTTCTTACGCCGTCCAGGCCA
>NF2_LsgRNA62
ACTACGACCCCAGTGTTTACAAGCGGGGAT
>NF2_LsgRNA63
TCACCGAGGAGGAGGCAAACTTCTGGCCC
>NF2_LsgRNA64
CGCACGAGGGATGAGTTGGAGAGGAGGCTG
>NF2_LsgRNA65
AAGCCGAGGTGCTGGCACTGAAGATGGCTG
>NF2_LsgRNA66
GCCTCGCTCGAGAGAAGCAGATGAGGGAGG
>NF2_LsgRNA67
GCAACGGTGCTGGAATTGGGTTCATGGGCT
>NF2_LsgRNA68
GGATCGTCACCATGGACGCCGAGATGGAGT
>NF2_LsgRNA69
CTGGCTCAAATGGACAAGAAGTTGGGCT
>NF2_LsgRNA70
CCTGCTCAGCCTCTGCGGCCTTCTGGGCCA
>NF2_LsgRNA71
CTGTCTCCCTCTCTTTTCAAGGCCT
>NF2_LsgRNA72
GGGGCTCCGAGAAACCTGGTTCTTTGGACT
>NF2_LsgRNA73
TCTCCTCCTCCGTGCGAATCGCTGTGGCCT
>NF2_LsgRNA74
TTACCTCGCAATTGAACTCCATCTCGGCGT
>NF2_LsgRNA75
TTTGCTCTGCAATTCTGCAGGTACTGGATC
>NF2_LsgRNA76
CGGACTCTGGGGCTCCGAGAAACCTGGTTC
>NF2_LsgRNA77
AGAGCTCTTCAAAGAAGGCCACTCGGGACT
>NF2_LsgRNA78
GGGCCTGAGCCCCGCGCCATGGCCGGGGCC
>NF2_LsgRNA79
TCACCTGCTAGAGCTCTTCAAAGAAGGCCA

>NF2_LsgRNA80
TCATCTGCTGAACTTCCAAAGAATCGGCTT
>NF2_LsgRNA81
GCTGCTGCTTGGAGTGGATGCCCTGGGGCT
>NF2_LsgRNA82
TCAGCTGTCTCCTCAGACCGCATCTGGAGG
>NF2_LsgRNA83
CCAGCTTATTAACACGAAGCTTTGAGGAGT
>NF2_LsgRNA84
CCTGCTTCAGCTGATCTGCCTCTTTGGCCC
>NF2_LsgRNA85
TGGCCTTCTTTGAAGAGCTCTAGCAGGTGA
>NF2_LsgRNA86
TGTGCTTGCTGCTGCCACCCCTGTCGGAGT
>NF2_LsgRNA87
GAAGCTTGGTATGTCAGGAGGCAACGGTGC
>NF2_LsgRNA88
CATCCTTTCCTTGCAGGGCCAAAGAGGCAG
>NF2_LsgRNA89
CCTGCTTCTAGCCTTCTCCTCCCTGGCCT
>NF2_LsgRNA90
AACTGAAAGAGAGGGAGACAGCTCTGGATA
>NF2_LsgRNA91
AATTGAACTCCATCTCGGCGTCCATGGTGA
>NF2_LsgRNA92
AGCTGAAGCTCATGCGGGAAGCGATGGCCC
>NF2_LsgRNA93
CCCAGAAGGCCGCAGAGGCTGAGCAGGAAA
>NF2_LsgRNA94
CTACGACCCCAGTGTTTCAACAAGCGGGGATT
>NF2_LsgRNA95
TGAGGAGAAGGAAAGCCGATTCTTTGGAAG
>NF2_LsgRNA96
TCTTGAGAGAGCTGAAGCTCATGCGGGAAG
>NF2_LsgRNA97
TCAGGAGGCAACGGTGCTGGAATTGGGTTC
>NF2_LsgRNA98
TGCAGATGAAAGAAGAAGCAACAATGGCCA
>NF2_LsgRNA99
AGCAGATGAAAGCCCAGGCCAGGGAGGAGA
>NF2_LsgRNA100
ATCAGATGACTCCGGAATGTGGGAGGAGA
>NF2_LsgRNA101
TTCTGCACAATGAGA ACTCCGACAGGGGTG

>NF2_LsgRNA102
GAACGCACGAGGGATGAGTTGGAGAGGAGG
>NF2_LsgRNA103
TGGAGCAGAAGGTGCTGGAAGCCGAGGTGC
>NF2_LsgRNA104
CCTTG CAGAGCGCCAAGTCCCGAGTGGCCT
>NF2_LsgRNA105
TTCAGCAGATGAAAGCCCAGGCCAGGGAGG
>NF2_LsgRNA106
TATTGCAGATGAAGTGGAAAGGGAAGGACC
>NF2_LsgRNA107
CTGAGCAGGAAATGCAGCGCATCAAGGCCA
>NF2_LsgRNA108
TTTGGCCAAGAAGTGAAGGTGACTGGTTC
>NF2_LsgRNA109
CCAGGCTCACCGGTACGTGGGCTTGGTGG
>NF2_LsgRNA110
TCCTGCTCAGCCTCTGCGCCTTCTGGGCC
>NF2_LsgRNA111
GATAGCTCAGGACCTGGAGATGTACGGTGT
>NF2_LsgRNA112
TAGAGCTCTTCAAAGAAGGCCACTCGGGAC
>NF2_LsgRNA113
AGCTGCTGCTTGGAGTGGATGCCCTGGGGC
>NF2_LsgRNA114
AGGTGCTGGCACTGAAGATGGCTGAGGAGT
>NF2_LsgRNA115
TACTGCTTGGTACGCAGAGCACCGAGGCCG
>NF2_LsgRNA116
ACATGGAAAAGAGCAAGCATCTGCAGGAGC
>NF2_LsgRNA117
TGCGGGAAGCGATGGCCCCGGCCATGGCGC
>NF2_LsgRNA118
AGCAGGACCTGCAGGAAGCACGCGAGGCGG
>NF2_LsgRNA119
CCAGGGAGGAGAAGGCTAGAAAGCAGGTGA
>NF2_LsgRNA120
GCACGGAGGAGGAGAAGCGCCTGATGGAGC
>NF2_LsgRNA121
GTCAGGAGGCAACGGTGCTGGAATTGGGTT
>NF2_LsgRNA122
AGGAGGCAAAACTTCTGGCCCAGAAGGCCG
>NF2_LsgRNA123
TCAAGGCCACAGCGATTTCGCACGGAGGAGG

>NF2_LsgRNA124
AAAAGGCCAGATCACCGAGGAGGAGGCAA
>NF2_LsgRNA125
AATGGGCCTCACCTGGCTCGGCCTCGGTGC
>NF2_LsgRNA126
TCGAGGCCTTGAAACTGAAAGAGAGGGAGA
>NF2_LsgRNA127
ATGTGGGAGGAGAGAATTACTGCTTGGTAC
>NF2_LsgRNA128
ATGAGGGAGGAGGCTGAACGCACGAGGGAT
>NF2_LsgRNA129
AGAAGGTGCTGGAAGCCGAGGTGCTGGCAC
>NF2_LsgRNA130
CAACGGTGCTGGAATTGGGTTTCATGGGCTG
>NF2_LsgRNA131
TTGTGTACTGCAGTCCAAAGAACCAGGTTT
>NF2_LsgRNA132
CAGGGTCATAAATGTGAAGCCCCAGGGCAT
>NF2_LsgRNA133
TGCAGTCCAAAGAACCAGGTTTCTCGGAGC
>NF2_LsgRNA134
TACGGTGTGAACTACTTTGCAATCCGGGTG
>NF2_LsgRNA135
ATTGGTTTGTATTGCAGATGAAGTGAAA
>NF2_LsgRNA136
TTTCTAGCCTTCTCCTCCCTGGCCTGGGCT
>NF2_LsgRNA137
TCAGTATCTTTGAAGTCGAAAGACAGGCTG
>NF2_LsgRNA138
TTGTTATTGCAGATGAAGTGAAAGGGAAG
>NF2_LsgRNA139
GACTTCAAAGATACTGACATGAAGCGGCTT
>NF2_LsgRNA140
CAGATCAGCTGAAGCAGGACCTGCAGGAAG
>NF2_LsgRNA141
TCCCTCATCTGCTTCTCTCGAGCGAGGCGC
>NF2_LsgRNA142
GCCCTCCTGAGGCTTCTGTGCTCCTGGCTT
>NF2_LsgRNA143
TCGCTCGAGAGAAGCAGATGAGGGAGGAGG
>NF2_LsgRNA144
CGCCTCGCTCGAGAGAAGCAGATGAGGGAG
>NF2_LsgRNA145
TGTTTTCGGATTTTCATTCCACGGGAAGGAGA

>NF2_LsgRNA146
CCACTCGGGACTTGGCGCTCTGCAAGGTGA
>NF2_LsgRNA147
CATCTCGTACAGTGACAAGGAGGTAGGACA
>NF2_LsgRNA148
AACTTCTGGCCCAGAAGGCCGAGAGGCTG
>NF2_LsgRNA149
TGGCTGAAAAGGCCCAGATCACCGAGGAGG
>NF2_LsgRNA150
AGGCTGAACGCACGAGGGATGAGTTGGAGA
>NF2_LsgRNA151
TCAATGAACTCAAGACAGAAATCGAGGCCT
>NF2_LsgRNA152
ACAATGAATGGGCCTCACCTGGCTCGGCCT
>NF2_LsgRNA153
ATACTGACATGAAGCGGCTTTCCATGGAGA
>NF2_LsgRNA154
ATCCTGAGAATGCTGAAGAGGAGCTGGTTC
>NF2_LsgRNA155
CTCTTGAGAGAGCTGAAGCTCATGCGGGAA
>NF2_LsgRNA156
GGCCTGAGCCCCGCGCCATGGCCGGGGCCA
>NF2_LsgRNA157
CGCATGAGCTTCAGCTCTCTCAAGAGGAAG
>NF2_LsgRNA158
GGTCTGAGGAGACAGCTGACCTGTTGGCTG
>NF2_LsgRNA159
TCTTTGATTTGGTGTGCCGGACTCTGGGGC
>NF2_LsgRNA160
ATTCTGCACAATGAGAACTCCGACAGGGGT
>NF2_LsgRNA161
AGATTGCCACCAAGCCCACGTACCCGGTGA
>NF2_LsgRNA162
ACTGTGCCCTCCAGATGCGGTCTGAGGAGA
>NF2_LsgRNA163
CTCTTGCCGGCAGAGTGGAATACATGGAAA
>NF2_LsgRNA164
AGAATGCTGAAGAGGAGCTGGTTCAGGAGA
>NF2_LsgRNA165
CTGCTGCTTGGAGTGGATGCCCTGGGGCTT
>NF2_LsgRNA166
TACGTGGGCTTGGTGGCAATCTCCAGGAGC
>NF2_LsgRNA167
ACACTGGGGTCGTAGTCACCATACTGGAAA

>NF2_LsgRNA168
 TCCTTGTCACGTGACGAGATGTTTCGGATT
 >NF2_LsgRNA169
 ACGGTGTGAACTACTTTGCAATCCGGGTGT
 >NF2_LsgRNA170
 TTTGTTATTGCAGATGAAGTGGAAAGGGAA
 >NF2_LsgRNA171
 TTTCTTCACCCCTCGCAGATGGAGCGGCAG
 >NF2_LsgRNA172
 TTCATTCCACGGGAAGGAGATCTTGGGGGT
 >NF2_LsgRNA173
 TTCCTTCTCCTCATAAATAGATCATGGTTC
 >NF2_LsgRNA174
 TGGCTTCTTACGCCGTCCAGGCCAAGGTAG
 >NF2_LsgRNA175
 GAGGTGAAGCTTGGTATGTCAGGAGGCAA
 >NF2_LsgRNA176
 AGTTTTGCCTCCTCCTCGGTGATCTGGGCC
 >NF2_LsgRNA177
 CTTATTGGATCCACAGAATAAAAAGGGCAC
 >NF2_LsgRNA178
 GATCTTGGGGTTCAGTCTGTTCTCAGGGTC

(29) S_{12}^- : 191 low on-target activity sgRNAs targeting CD5

>CD5_LsgRNA1
 CAGAAAAAAAAAACTGCAACAAGAGGGTA
 >CD5_LsgRNA2
 TCAGAAAAGCAGCGTCAGTGGATTGGCCC
 >CD5_LsgRNA3
 CCAGAAAACAACGGCCCAGGAGGGCGGCCA
 >CD5_LsgRNA4
 TGGAAAACAGTGTGCAGTTCCAGTTGGAGG
 >CD5_LsgRNA5
 TGGTAACACTGAGACAGCTTCTCCTGGGCA
 >CD5_LsgRNA6
 CCCAAACCCAGCGGGCCTGGCCCCAGGCAC
 >CD5_LsgRNA7
 AAACAACGGCCCAGGAGGGCGGCCAGGCGC
 >CD5_LsgRNA8
 GGCCAAGGACAGGCCCTGGGCCTGGGGAA
 >CD5_LsgRNA9
 CTACAAGGCCAAGGACAGGCCCTGGGCCT
 >CD5_LsgRNA10
 GCCCAAGGTTTCAGAGCCGCTGGTCGGGGG

>CD5_LsgRNA11
GCTGAAGTGCGCCAGAGATCACAGTGGGAG
>CD5_LsgRNA12
TCACACACACTGCTGCCCCGACCAGGCGG
>CD5_LsgRNA13
GGTAACACTGAGACAGCTTCTCCTGGGCAC
>CD5_LsgRNA14
TGAGACAGCTTCTCCTGGGCACAGAGGAAC
>CD5_LsgRNA15
TGTGACAGTTCTGCAGCCAGGGGCCGGGA
>CD5_LsgRNA16
TGCCACATACCTGCTGGGAACGCTGGGTGA
>CD5_LsgRNA17
CCACACATGGCCAGCAGCACCACCAGGAGT
>CD5_LsgRNA18
ACCCACCACCGTGCCGGAGCCCACAGGTAA
>CD5_LsgRNA19
GGACACCAGCTCCTGCAGAGCTGAGGGACC
>CD5_LsgRNA20
CCCCGACCAGGCGGCTCTGAACCTTGGGCTG
>CD5_LsgRNA21
GAGCACCTCTTACCTGTGGGCTCCGGCAC
>CD5_LsgRNA22
TCTTACCTGTGGGCTCCGGCACGGTGGTGG
>CD5_LsgRNA23
GGGGACGGTGGGAAGAGCTATGTCGGGAGC
>CD5_LsgRNA24
AGAGACTCACCCAGCGTTCCCAGCAGGTAT
>CD5_LsgRNA25
ACTTACTGTTCTGGTTCACTCCTGTGGGGC
>CD5_LsgRNA26
TACAAGAAGCTGGTGAAGAAATGTAGGTAC
>CD5_LsgRNA27
GCCAAGACCCAAACCCAGCGGGCCTGGCCC
>CD5_LsgRNA28
TTACAGATGAGGTTCCCCAGGCCAGGGGC
>CD5_LsgRNA29
CCAGAGCAGATGACGGTGAGCGCTGGCCG
>CD5_LsgRNA30
CTGCAGCCAGGGGCCGGGGACGGTGGGAAG
>CD5_LsgRNA31
CTCCAGCTCCTCCCAGATTGCAGCTGGTGC
>CD5_LsgRNA32
CACCAGCTGCAATCTGGGAGGAGCTGGAGA

>CD5_LsgRNA33
GCCAAGGACAGGCCCTGGGCTGGGGAAC
>CD5_LsgRNA34
ACGAAGGCTGAGGTGCACAGGTGTGGTGG
>CD5_LsgRNA35
ATGAAGGAAAGGACCAAGGGCCAAGGGGT
>CD5_LsgRNA36
CCCAAGGTTTCAGAGCCGCTGGTCGGGGGC
>CD5_LsgRNA37
CTGAAGTGCGCCAGAGATCACAGTGGGAGG
>CD5_LsgRNA38
TGACAGTCTGCAGCCAGGGCCGGGGACG
>CD5_LsgRNA39
CGACATAGCTCTTCCCACCGTCCCCGGCCC
>CD5_LsgRNA40
CATTATCACCCACCTAGGCAGATCAGGCTC
>CD5_LsgRNA41
TCCCATCGAATTGGCAAGGGCTGGGGTCC
>CD5_LsgRNA42
CCTCATCTGTAAGTCTCTGCAGTGTGGCTC
>CD5_LsgRNA43
CAGGATGATGCTTGCCACAGTGCCTGGGGC
>CD5_LsgRNA44
GTGGATGCTGACAAAACCTCCCCGGGTTC
>CD5_LsgRNA45
CTTCATTGAACAGACCCCAGAACCAGGTCT
>CD5_LsgRNA46
AGGCCAAGGACAGGCCCTGGGCTGGGGA
>CD5_LsgRNA47
TCTACAAGGCCAAGGACAGGCCCTGGGCC
>CD5_LsgRNA48
CTGCCACATACCTGCTGGGAACGCTGGGTG
>CD5_LsgRNA49
GGGACACCAGCTCCTGCAGAGCTGAGGGAC
>CD5_LsgRNA50
GTGGCACCATCCTCTACAAGGCCAAGGACA
>CD5_LsgRNA51
CAACCACCCACCCACCACCGTGCCGGAGC
>CD5_LsgRNA52
TGTGCACCTCAGGCCTTCGTGTCTGGCAC
>CD5_LsgRNA53
AGGACACGAAGGCCTGAGGTGCACAGGTGT
>CD5_LsgRNA54
CTTCCAGAAAACAACGGCCCAGGAGGGCGG

>CD5_LsgRNA55
ACCCCAGAACCAGGTCTTCTGCCAAGGATC
>CD5_LsgRNA56
CCAGCAGCACTTCGTGGGAGTCCATGGATA
>CD5_LsgRNA57
TCTGCAGCCAGGGGCCGGGGACGGTGGGAA
>CD5_LsgRNA58
ATCTCAGCTGTTTGCACACTGCAGAGGCCT
>CD5_LsgRNA59
AGTCCAGCTTACCAGAGCAGATGACGGTGA
>CD5_LsgRNA60
TCCCCAGGCCCAGGGGCCTGTCCCTGGCCT
>CD5_LsgRNA61
ACCCCAGGCCCTTGCCAATTCGATGGGAGG
>CD5_LsgRNA62
CGGACAGTCTGGAAGGGGTGGCCTAGGTAA
>CD5_LsgRNA63
GTGACAGTTCTGCAGCCAGGGGCCGGGGAC
>CD5_LsgRNA64
CGCACAGTTGCTGTGTGGCTTCGATGGAAA
>CD5_LsgRNA65
GCATCATCCTGACCCTTGTACTCCTGGTGG
>CD5_LsgRNA66
CTCCCATCGAATTGGCAAGGGCCTGGGGTC
>CD5_LsgRNA67
AATTCCACCACACCTGTGCACCTCAGGCCT
>CD5_LsgRNA68
AGCACCACCAGGAGTACAAGGGTCAGGATG
>CD5_LsgRNA69
GCATCCACCCTGTGGAAGGAGATGAGGTCTG
>CD5_LsgRNA70
GCTTCCAGAAAACAACGGCCCAGGAGGGCG
>CD5_LsgRNA71
GACCCCAGGCCCTTGCCAATTCGATGGGAG
>CD5_LsgRNA72
CCTCCCATCGAATTGGCAAGGGCCTGGGGT
>CD5_LsgRNA73
AGGACCATTGAAAAATGCCCAGCAGGCCT
>CD5_LsgRNA74
TCCTCCCAGATTGCAGCTGGTGCCAGGACA
>CD5_LsgRNA75
CCTCCCCGGGTTCTCTGTGCCCAGGAGA
>CD5_LsgRNA76
AGGCCCGAGCACCTCTTACCTGTGGGCTC

>CD5_LsgRNA77
GCGACCTCATCTCCTTCCACACGGTGGATG
>CD5_LsgRNA78
AAGGCCTGAGGTGCACAGGTGTGGTGAAT
>CD5_LsgRNA79
GTGTCCTGGCACCAGCTGCAATCTGGGAGG
>CD5_LsgRNA80
CGCTCCTGGGAACACTTACTGTTCTGGTTC
>CD5_LsgRNA81
TTCTCCTGGGCACAGAGGAACCCGGGGGAG
>CD5_LsgRNA82
GCTCCGGCACGGTGGTGGGTGGGTGGTTG
>CD5_LsgRNA83
TGGTCGGGGCAGCAGTGTGTGTGAGGGCA
>CD5_LsgRNA84
GCAGCGTCAGTGGATTGGCCCCACAGGAGT
>CD5_LsgRNA85
AGAGCTATGTCGGGAGCAGCAGTGTGGCGA
>CD5_LsgRNA86
GGATCTCCACTTGACCCTGACACTTGAAT
>CD5_LsgRNA87
TGGGCTCCGGCACGGTGGTGGGTGGGTGG
>CD5_LsgRNA88
GCTTCTCCTGGGCACAGAGGAACCCGGGGG
>CD5_LsgRNA89
CTGCCTCGGACAGTCTGGAAGGGGTGGCCT
>CD5_LsgRNA90
GCTCCTGCAGAGCTGAGGGACCCCAGGCC
>CD5_LsgRNA91
AGTTCTGCAGCCAGGGGCCGGGGACGGTGG
>CD5_LsgRNA92
CTTTCTGCCTCGGACAGTCTGGAAGGGGTG
>CD5_LsgRNA93
GGGCCTGGGGTCCCTCAGCTCTGCAGGAGC
>CD5_LsgRNA94
ACATCTGTCCGGGACAGAGGCAGCAGGGAC
>CD5_LsgRNA95
CTTACTGTTCTGGTTCCTCCTGTGGGGCC
>CD5_LsgRNA96
CCCTCTTACCTGTGGGCTCCGGCACGGTGG
>CD5_LsgRNA97
AGTGCTTCCAGAAAACAACGGCCCAGGAGG
>CD5_LsgRNA98
GATCCTTGGCAGAAGACCTGGTTCTGGGGT

>CD5_LsgRNA99
GGCTCTTCTTGACACATCTGTCCGGGACA
>CD5_LsgRNA100
CATCGAAGCCACACAGCAACTGTGCGGTCC
>CD5_LsgRNA101
GGTGAATTCTACAATGGCAGCTGGGGTGG
>CD5_LsgRNA102
TCTTGACACATCTGTCCGGGACAGAGGCAG
>CD5_LsgRNA103
CCCCGACCAGGCGGCTCTGAACCTTGGGCT
>CD5_LsgRNA104
CGGGGACGGTGGGAAGAGCTATGTCGGGAG
>CD5_LsgRNA105
CGGTGAGCGCCTGGCCGCCCTCCTGGGCCG
>CD5_LsgRNA106
TACAGATGAGGTTCCCCAGGCCAGGGGCC
>CD5_LsgRNA107
GGTGGATGCTGACAAAACCTCCCCGGGTT
>CD5_LsgRNA108
GGATGATGCTTGCCACAGTGCCCTGGGGCCA
>CD5_LsgRNA109
GCCAGCAGCACCACCAGGAGTACAAGGGTC
>CD5_LsgRNA110
CCAGGCCCTTGCCAATTGATGGGAGGCC
>CD5_LsgRNA111
CGGGGCCTCCCATCGAATTGGCAAGGGCCT
>CD5_LsgRNA112
AGGGGCCTGTCCTTGGCCTTGTAGAGGATG
>CD5_LsgRNA113
AAGTGCGCCAGAGATCACAGTGGGAGGCC
>CD5_LsgRNA114
CCAGGCGCTCACCGTCATCTGCTCTGGTAA
>CD5_LsgRNA115
GTGGGCTCCGGCACGGTGGTGGGTGGGGTG
>CD5_LsgRNA116
TGCTGCTGGCCATGTGTGGTCCCTCTGGTCT
>CD5_LsgRNA117
GCCCGCTGGGTTTGGGTCTTGGCCTGGATA
>CD5_LsgRNA118
AGCGGCTTCTGCCTCGGACAGTCTGGAAG
>CD5_LsgRNA119
TGGTGAATTCTACAATGGCAGCTGGGGTG
>CD5_LsgRNA120
CCATGGACTCCCACGAAGTGCTGCTGGCTG

>CD5_LsgRNA121
CCTGGGCACAGAGGAACCCGGGGGAGGTTT
>CD5_LsgRNA122
ATGTGGCAGCCAGCAGCACTTCGTGGGAGT
>CD5_LsgRNA123
TCCAGGCCAAGACCCAAACCCAGCGGGCCT
>CD5_LsgRNA124
GCCAGGCCCGCTGGGTTTGGGTCTTGGCCT
>CD5_LsgRNA125
TCGGGGCCTCCCATCGAATTGGCAAGGGCC
>CD5_LsgRNA126
ACCAGGCGGCTCTGAACCTTGGGCTGGAAA
>CD5_LsgRNA127
TGTGGGCTCCGGCACGGTGGTGGGTGGGGT
>CD5_LsgRNA128
CCCTGGCTGCAGAACTGTCACACAGGGCCT
>CD5_LsgRNA129
ACTTGGGACCGCACAGTTGCTGTGTGGCTT
>CD5_LsgRNA130
CCTGGGGCCAGGCCCGCTGGGTTTGGGTCT
>CD5_LsgRNA131
CACAGGGCCTCCCCTGTGATCTCTGGCGC
>CD5_LsgRNA132
GCCTGGGGCCAGGCCCGCTGGGTTTGGGTC
>CD5_LsgRNA133
GGTCGGGGGCAGCAGTGTGTGTGAGGGCAT
>CD5_LsgRNA134
TTGTGGGTGGAGGTGTCGTTCTCTGGGGCT
>CD5_LsgRNA135
GCTGGGGTGGCACCATCCTCTACAAGGCCA
>CD5_LsgRNA136
TGTGGGTGGAGGTGTCGTTCTCTGGGGCTC
>CD5_LsgRNA137
GCACGGTGGTGGGTGGGGTGGTTGTGGGTG
>CD5_LsgRNA138
CCAAGGTTTCAGAGCCGCTGGTCGGGGGCA
>CD5_LsgRNA139
GTTTCGTCAGAAAAAGCAGCGTCAGTGGATT
>CD5_LsgRNA140
TTTTGTCAGCATCCACCGTGTGGAAGGAGA
>CD5_LsgRNA141
AATGGTCCTGGCTCAGCCTCCAACCTGGAAC
>CD5_LsgRNA142
TGTAGTGAGACACAGCTCCCGTTCGGGGCC

>CD5_LsgRNA143
CACAGTGCCTGGGGCCAGGCCCGCTGGGTT
>CD5_LsgRNA144
ACCTGTGGGCTCCGGCACGGTGGTGGGTGG
>CD5_LsgRNA145
GGTGGTGGGTGGGGTGGTTGTGGGTGGAGG
>CD5_LsgRNA146
CCTGGTGGTGCTGCTGGCCATGTGTGGTCC
>CD5_LsgRNA147
CACGGTGGTGGGTGGGGTGGTTGTGGGTGG
>CD5_LsgRNA148
CCCTGTGTGACAGTTCTGCAGCCAGGGGCC
>CD5_LsgRNA149
CAAGGTTCAAGCCGCCTGGTCGGGGGCAG
>CD5_LsgRNA150
CTGTTCAATGAAGGGAAAGGACCAAGGGCC
>CD5_LsgRNA151
CTTTTCCACAGCGGCTTTCTGCCTCGGACA
>CD5_LsgRNA152
GGGGTCCCTCAGCTCTGCAGGAGCTGGTGT
>CD5_LsgRNA153
ACCATCCTCTACAAGGCCAAGGACAGGCCC
>CD5_LsgRNA154
GTGGTCCTCTGGTCTACAAGAAGCTGGTGA
>CD5_LsgRNA155
CGTGTCTTGGCACCAGCTGCAATCTGGGAG
>CD5_LsgRNA156
CTTCTCCTGGGCACAGAGGAACCCGGGGGA
>CD5_LsgRNA157
GCTTTCTGCCTCGGACAGTCTGGAAGGGGT
>CD5_LsgRNA158
TGGCTCTTTCTTGACACATCTGTCCGGGAC
>CD5_LsgRNA159
CTTGTGAACTTGTGTTGTTGCAGTTGGATA
>CD5_LsgRNA160
GTAGTGAGACACAGCTCCCGTTCGGGGCCT
>CD5_LsgRNA161
ACGGTGAGCGCCTGGCCGCCCTCCTGGGCC
>CD5_LsgRNA162
AGGATGATGCTTGCCACAGTGCTGGGGCC
>CD5_LsgRNA163
TGTTTGCACACTGCAGAGGCCTGCTGGGCA
>CD5_LsgRNA164
CTGGTGCCAGGACACGAAGGCCTGAGGTGC

>CD5_LsgRNA165
TTTCTGCCTCGGACAGTCTGGAAGGGGTGG
>CD5_LsgRNA166
ACAGTGCCTGGGGCCAGGCCCGCTGGGTTT
>CD5_LsgRNA167
GTGGTGAATTCTACAATGGCAGCTGGGGT
>CD5_LsgRNA168
GAATTGGAGCCACTTAGCATCACCTGGATA
>CD5_LsgRNA169
TCCTTGGCAGAAGACCTGGTTCTGGGGTCT
>CD5_LsgRNA170
TAAGTGGCTCCAATTCCAAGTGCAGGGTC
>CD5_LsgRNA171
CCCCTGGCTGCAGAAGTGCACACAGGGCC
>CD5_LsgRNA172
GTTGTGGGTGGAGGTGTCGTTCTCTGGGGC
>CD5_LsgRNA173
CCCTTGTACTCCTGGTGGTGCTGCTGGCCA
>CD5_LsgRNA174
CTGGTGTCCCTGCTGCCTCTGTCCCGGACA
>CD5_LsgRNA175
CATCTGTCCGGGACAGAGGCAGCAGGGACA
>CD5_LsgRNA176
CCTGTGTGACAGTTCTGCAGCCAGGGGCCG
>CD5_LsgRNA177
TACCTGTGGGCTCCGGCACGGTGGTGGGTG
>CD5_LsgRNA178
GAGATGTGGTGACCCCTTGGCCCTTGGTCC
>CD5_LsgRNA179
GCCCTGTGTGACAGTTCTGCAGCCAGGGGC
>CD5_LsgRNA180
TTACTGTTCTGGTTCACTCCTGTGGGGCCA
>CD5_LsgRNA181
CCAATTCCAAGTGTGTCAGGGTCAAGTGGAGA
>CD5_LsgRNA182
GCAGTCCAGTTGGAGGCTGAGCCAGGACC
>CD5_LsgRNA183
GCTCTTCCCACCGTCCCCGGCCCCCTGGCTG
>CD5_LsgRNA184
CCAATTCGATGGGAGGCCCGAACGGGAGC
>CD5_LsgRNA185
CCCGTTCGGGGCCTCCCATCGAATTGGCAA
>CD5_LsgRNA186
GGAATTCTACAATGGCAGCTGGGGTGGCAC

>CD5_LsgRNA187
 TCCTTTCTGCAGATTTCCAGCCCAAGGTTC
 >CD5_LsgRNA188
 CTGGTTCTGGGGTCTGTTCAATGAAGGGAA
 >CD5_LsgRNA189
 CCACTTGACCCTGACACTTGAATTTGGAGC
 >CD5_LsgRNA190
 ATGCTTGCCACAGTGCCTGGGGCCAGGCC
 >CD5_LsgRNA191
 ATCCTTGGCAGAAGACCTGGTTCTGGGGTC

(30) S_{13}^- : 59 low on-target activity sgRNAs targeting CD28

>CD28_LsgRNA1
 AACGAAACAGTGACGTTCCGTCTCTGGAAT
 >CD28_LsgRNA2
 TGGTAAAGCAGTCGCCCCTGCTTGTGGTAG
 >CD28_LsgRNA3
 CTGCAAAGTCTCTGGCAGGGGCGTAGGGCT
 >CD28_LsgRNA4
 CATGAACATGACTCCCCGGAGGCCTGGGCT
 >CD28_LsgRNA5
 TGCAAAGTCTCTGGCAGGGGCGTAGGGCTG
 >CD28_LsgRNA6
 CTCGAATGCCGAGTTCAACTGCGACGGGGA
 >CD28_LsgRNA7
 ATGAACATGACTCCCCGGAGGCCTGGGCTC
 >CD28_LsgRNA8
 TACAACCTTCTCGCAAAGGAATTCCGGGCA
 >CD28_LsgRNA9
 AGCAACGAGGTCAGCCTCAGCTGCAGGTAT
 >CD28_LsgRNA10
 CGGTACGCTGCAAAGTCTCTGGCAGGGGCG
 >CD28_LsgRNA11
 AGTGACTACATGAACATGACTCCCCGGAGG
 >CD28_LsgRNA12
 TTGAACTCGGCATTCGAGCGAAACTGGGGC
 >CD28_LsgRNA13
 GAACAGCGACGTGGAAGTCTGTGTCGGGAA
 >CD28_LsgRNA14
 ACTCAGTCATCTCCTAAGCTGTTTTGGGCA
 >CD28_LsgRNA15
 TGACAGTGGCTCTTTGTGTTATCTGGGTAA
 >CD28_LsgRNA16
 CTGGATAGGGTCCCTGTTCAGGGGCGGTAC

>CD28_LsgRNA17
CGAAATCCCCGTCGCAGTTGAACTCGGCAT
>CD28_LsgRNA18
TCGAATGCCGAGTTCAACTGCGACGGGGAT
>CD28_LsgRNA19
AGGAATTCGGGCATCCCTGTACAAGGGCG
>CD28_LsgRNA20
TGTACAAGGGCGTGAACAGCGACGTGGAAG
>CD28_LsgRNA21
GTGACAGTGGCTCTTTGTGTTATCTGGGTA
>CD28_LsgRNA22
GTTCCATTGCTCCTCTCGTTGTCTAGGTAA
>CD28_LsgRNA23
TTCCCCCCTAGACAAATAGTAGAAGGAAC
>CD28_LsgRNA24
GATGCCCGGAATTCCTTTGCGAGAAGGTTG
>CD28_LsgRNA25
TTTTCCCTTCAGAAAACAAGATTTTGGTAA
>CD28_LsgRNA26
ACAACCTTCTCGCAAAGGAATTCCGGGCAT
>CD28_LsgRNA27
CATTTCGAGCGAAACTGGGGCTGATAGGTAA
>CD28_LsgRNA28
CTTTCGAGTGAGCCCAGGCCTCCGGGGAGT
>CD28_LsgRNA29
TTCACGCCCTTGTACAGGGATGCCCGGAAT
>CD28_LsgRNA30
CCTCCGCCTTACCTAGACAACGAGAGGAGC
>CD28_LsgRNA31
GGTACGCTGCAAAGTCTCTGGCAGGGGCGT
>CD28_LsgRNA32
ACGTCGCTGTTACGCCCTTGTACAGGGAT
>CD28_LsgRNA33
ACCTCGTTGCTATCTACCACAAGCAGGGGC
>CD28_LsgRNA34
GTCACTAGCAAGCCATAACAAAACAGGACT
>CD28_LsgRNA35
ATTGCTCCTCTCGTTGTCTAGGTAAGGCGG
>CD28_LsgRNA36
TGAACTCGGCATTCGAGCGAAACTGGGGCT
>CD28_LsgRNA37
AAGTCTCTGGCAGGGGCGTAGGGCTGGTAA
>CD28_LsgRNA38
CTTTGCAGCGTACCGCCCCTGACAGGGACC

>CD28_LsgRNA39
 TCTGGCAGGGGCGTAGGGCTGGTAAGGCTT
 >CD28_LsgRNA40
 AACAGCGACGTGGAAGTCTGTGTCGGGAAT
 >CD28_LsgRNA41
 AGGGGCGGTACGCTGCAAAGTCTCTGGCAG
 >CD28_LsgRNA42
 CGTCGCTGTTACGCCCTTGTACAGGGATG
 >CD28_LsgRNA43
 CAATGGAACTATTATTACATAAAAAGGTAA
 >CD28_LsgRNA44
 CGACGTGGAAGTCTGTGTCGGGAATGGGAA
 >CD28_LsgRNA45
 GTCTGTTCCCTTCTACTATTTGTCTAGGGGG
 >CD28_LsgRNA46
 CTGGTAAGGCTTTCGAGTGAGCCCAGGCCT
 >CD28_LsgRNA47
 GCGGTACGCTGCAAAGTCTCTGGCAGGGGC
 >CD28_LsgRNA48
 GCTTTCGAGTGAGCCCAGGCCTCCGGGGAG
 >CD28_LsgRNA49
 CCTCTCGTTGTCTAGGTAAGGCGGAGGGTA
 >CD28_LsgRNA50
 ACTTTGCAGCGTACCGCCCCTGACAGGGAC
 >CD28_LsgRNA51
 CGAATGCCGAGTTCAACTGCGACGGGGATT
 >CD28_LsgRNA52
 GACGTGGAAGTCTGTGTCGGGAATGGGAAT
 >CD28_LsgRNA53
 CTTCTGGATAGGGGTCCCTGTCAGGGGCGG
 >CD28_LsgRNA54
 GTTTTGGGCACTGGTTCGTGGTTGCTGGAGT
 >CD28_LsgRNA55
 GTCATGTTTCATGTAGTCACTTTGAAGGAGT
 >CD28_LsgRNA56
 TTTGTTATGGCTTGCTAGTGACAGTGGCTC
 >CD28_LsgRNA57
 GGTATTCCTACAACCTTCTCGCAAAGGAAT
 >CD28_LsgRNA58
 GGAATTCCTTTGCGAGAAGGTTGTAGGAAT
 >CD28_LsgRNA59
 GGCTTTCGAGTGAGCCCAGGCCTCCGGGGA

(31) S_{14}^- : 135 low on-target activity sgRNAs targeting H2-K

>H2-K_LsgRNA1
CACCAAACACAAGTGGGAGCAGGCTGGTGA
>H2-K_LsgRNA2
CCAGAACAGCAACGGTCGCCATGTTGGAGA
>H2-K_LsgRNA3
CGCCAACAGCAGGAGCAGCGTGCACGGTAC
>H2-K_LsgRNA4
CGGGAACGCGACGCTGCTGCGCACAGGTGC
>H2-K_LsgRNA5
TGAAAACGTGGACGGCGGCGGACATGGCGG
>H2-K_LsgRNA6
GATGAAGATGAGAAGGAGAAACACAGGTAG
>H2-K_LsgRNA7
CTCCAAGGACAACCAGAACAGCAACGGTCG
>H2-K_LsgRNA8
CTGCAATAGTCACTGGAGCTGTGGTGGCTT
>H2-K_LsgRNA9
GGAGACAGTGGATGGAGGAGGCTCTGGGAA
>H2-K_LsgRNA10
TTACACATGCCATGTGTACCATCAGGGGCT
>H2-K_LsgRNA11
CAGGACATGGAGCTTGTGGAGACCAGGCCT
>H2-K_LsgRNA12
CATCACCTGACCTGGCAGTTGAATGGGGA
>H2-K_LsgRNA13
AGTCACCCTGAGGTGCTGGGCCCTGGGCTT
>H2-K_LsgRNA14
AAATACCTCAGCGAGTGTGGGCCTGGGGGC
>H2-K_LsgRNA15
GGTGACGAAATACCTCAGCGAGTGTGGGCC
>H2-K_LsgRNA16
AGCCACTCCACGCACGTGCCCTCCAGGTAG
>H2-K_LsgRNA17
ACGAAGACCTGAAAACGTGGACGGCGGCGG
>H2-K_LsgRNA18
AGAGAGACTCAGGGCCTACCTGGAGGGCAC
>H2-K_LsgRNA19
GAGCAGAGTTTCCGAGTGGACCTGAGGACC
>H2-K_LsgRNA20
ATGGAGCAGGAGGGGCCCGAGTATTGGGAG
>H2-K_LsgRNA21
TAGAAGCCCAGGGCCCAGCACCTCAGGGTG
>H2-K_LsgRNA22
TCGCAGCCGTCGTAGGCGTACTGCTGGTAC

>H2-K_LsgRNA23
TGCCAGGTCAGGGTGATGTCAGCAGGGTAG
>H2-K_LsgRNA24
TTGTAGTAGCCGAGCAGGGTCCTCAGGTCC
>H2-K_LsgRNA25
TGGAAGTCGGCTACGTGGACGACACGGAGT
>H2-K_LsgRNA26
GAAGATAAAGTCACCCTGAGGTGCTGGGCC
>H2-K_LsgRNA27
CTTTATCTTCAGGTCTGCTGTGATGGGTCA
>H2-K_LsgRNA28
TGTGATGGGTCACATGGGCCTTTGGGGAAT
>H2-K_LsgRNA29
CGCCATGTTGGAGACAGTGGATGGAGGAGG
>H2-K_LsgRNA30
AGGTATTTTCGTCACCGCCGTGTCCCGGCC
>H2-K_LsgRNA31
CTCTCACACTATTCAGGTGATCTCTGGCTG
>H2-K_LsgRNA32
ATTACACATGCCATGTGTACCATCAGGGGC
>H2-K_LsgRNA33
AAGTCACCCTGAGGTGCTGGGCCCTGGGCT
>H2-K_LsgRNA34
ACTCCACGCACGTGCCCTCCAGGTAGGCC
>H2-K_LsgRNA35
CGTGCACGCTGCTCCTGCTGTTGGCGGCCG
>H2-K_LsgRNA36
CCCACACTCTCCTTACCCCATCTCAGGGTG
>H2-K_LsgRNA37
CTGCCAGGTCAGGGTGATGTCAGCAGGGTA
>H2-K_LsgRNA38
GCTCCAGTGACTATTGCAGCTCCAAGGACA
>H2-K_LsgRNA39
GAGACAGTGGATGGAGGAGGCTCTGGGAAG
>H2-K_LsgRNA40
ACCCCATCTCAGGGTGAGGGGCTCAGGCAG
>H2-K_LsgRNA41
TGGGCATCTGTGGTGGTGCCTCTTGGGAAG
>H2-K_LsgRNA42
TACACATGCCATGTGTACCATCAGGGGCTG
>H2-K_LsgRNA43
CCAACATGGCGACCGTTGCTGTTCTGGTTG
>H2-K_LsgRNA44
GGCACCACCACAGATGCCCACTTCTGGAAG

>H2-K_LsgRNA45
CCTTCCAGAAGTGGGCATCTGTGGTGGTGC
>H2-K_LsgRNA46
GGAGCCAGGGCGGCCGCAACAGCAGGAGC
>H2-K_LsgRNA47
CCTCCCATTCAACTGCCAGGTCAGGGTGA
>H2-K_LsgRNA48
CCGCCCCAGGCCACACTCGCTGAGGTAT
>H2-K_LsgRNA49
TCCTCCCATTCAACTGCCAGGTCAGGGTG
>H2-K_LsgRNA50
GCTCCCCGAGGCCGGGCCGGGACACGGCGG
>H2-K_LsgRNA51
GGTACCCGCGGAGGAGTCGCCCGTCGGACC
>H2-K_LsgRNA52
ATCACCTGACCTGGCAGTTGAATGGGGAG
>H2-K_LsgRNA53
GGGTCCGACGGGCGACTCCTCCGCGGGTAC
>H2-K_LsgRNA54
ACCGCCGTGTCCCGGCCCGCCCTCGGGGAG
>H2-K_LsgRNA55
CCGGCCTCGGGGAGCCCCGGTACATGGAAG
>H2-K_LsgRNA56
AAGACCTGAAAACGTGGACGGCGGCGACA
>H2-K_LsgRNA57
TCACCCTGACCTGGCAGTTGAATGGGGAGG
>H2-K_LsgRNA58
TGCTCCTGCTGTTGGCGGCCCGCCCTGGCTC
>H2-K_LsgRNA59
CTCTCCTTACCCCATCTCAGGGTGAGGGGC
>H2-K_LsgRNA60
AATCCGAGATATGAGCCGCGGGCGCGGTGG
>H2-K_LsgRNA61
GTCCCGCAGGCTCTCACACTATTCAGGTGA
>H2-K_LsgRNA62
CCACCGCGCCCGCGGCTCATATCTCGGATT
>H2-K_LsgRNA63
CCC CGCGGGTCTGAGTCGGAGCCAGGGCG
>H2-K_LsgRNA64
CGGGCGCGGTGGATGGAGCAGGAGGGGCC
>H2-K_LsgRNA65
TGCTCGGCTACTACAACCAGAGCAAGGGCG
>H2-K_LsgRNA66
GGAGCGGGAGACACAGAAAGCCAAGGGCAA

>H2-K_LsgRNA67
AGTTTCGTGCGCTTCGACAGCGACGCGGAGA
>H2-K_LsgRNA68
CCGCCGTGTCCCGGCCCGCCTCGGGGAGC
>H2-K_LsgRNA69
GGGCTACCTGGAGGGCACGTGCGTGGAGT
>H2-K_LsgRNA70
GCACCTCAGGGTGACTTTATCTTCAGGTCT
>H2-K_LsgRNA71
GTGGCTCCGCAGATACCTGAAGAACGGGAA
>H2-K_LsgRNA72
TCAGCTCCTCCCCATTCAACTGCCAGGTCA
>H2-K_LsgRNA73
CTGCCTGAGCCCCTCACCTGAGATGGGGT
>H2-K_LsgRNA74
CAGGCTGGTGAAGCAGAGAGACTCAGGGCC
>H2-K_LsgRNA75
TCTCCTTACCCCATCTCAGGGTGAGGGGCT
>H2-K_LsgRNA76
GAACCTTCCAGAAGTGGGCATCTGTGGTGG
>H2-K_LsgRNA77
TGTCCCTTGAGCTGCAATAGTCACTGGAGC
>H2-K_LsgRNA78
GGAGCTTGTGGAGACCAGGCCTGCAGGGGA
>H2-K_LsgRNA79
CGGAGAATCCGAGATATGAGCCGCGGGCGC
>H2-K_LsgRNA80
AGTTGAATGGGGAGGAGCTGATCCAGGACA
>H2-K_LsgRNA81
TGTGGAGACCAGGCCTGCAGGGGATGGAAC
>H2-K_LsgRNA82
CGGGGAGCCCCGGTACATGGAAGTCGGCTA
>H2-K_LsgRNA83
GCCTGAGCCCCTCACCTGAGATGGGGTAA
>H2-K_LsgRNA84
AGCTGATCCAGGACATGGAGCTTGTGGAGA
>H2-K_LsgRNA85
CTGTGATGGGTACATGGGCCTTTGGGGAA
>H2-K_LsgRNA86
GGGCGATGTAATCGCAGCCGTCGTAGGCGT
>H2-K_LsgRNA87
TCAGGCAGCCCCTGATGGTACACATGGCAT
>H2-K_LsgRNA88
TGGAGCAGGAGGGGCCCGAGTATTGGGAGC

>H2-K_LsgRNA89
GTGGGCATCTGTGGTGGTGCCCTCTTGGGAA
>H2-K_LsgRNA90
GGTCGCCATGTTGGAGACAGTGGATGGAGG
>H2-K_LsgRNA91
AGAAGCCCAGGGCCCAGCACCTCAGGGTGA
>H2-K_LsgRNA92
CACCGCCGTGTCCCGGCCCGCCTCGGGGA
>H2-K_LsgRNA93
AGCAGCGTCGCGTTCCCGTTCTTCAGGTAT
>H2-K_LsgRNA94
CCTGGCTCCGACTCAGACCCGCGCGGGTGA
>H2-K_LsgRNA95
TCCCGGCCCGGTACTCACCCGCGCGGGTCT
>H2-K_LsgRNA96
GCTCGGCTACTACAACCAGAGCAAGGGCGG
>H2-K_LsgRNA97
CTCTGGCTGTGAAGTGGGGTCCGACGGGCG
>H2-K_LsgRNA98
ACCGGGGCTCCCCGAGGCCGGGCCGGGACA
>H2-K_LsgRNA99
GTGAGGGGCTCAGGCAGCCCCTGATGGTAC
>H2-K_LsgRNA100
CAACGGTCGCCATGTTGGAGACAGTGGATG
>H2-K_LsgRNA101
TTCAGGTGATCTCTGGCTGTGAAGTGGGGT
>H2-K_LsgRNA102
GGAAGGTTCCATCCCCTGCAGGCCTGGTCT
>H2-K_LsgRNA103
CCATGTACCGGGGCTCCCCGAGGCCGGGCC
>H2-K_LsgRNA104
TTTCGTCACCGCCGTGTCCCGGCCCGGCCT
>H2-K_LsgRNA105
TGATGTCAGCAGGGTAGAAGCCCAGGGCCC
>H2-K_LsgRNA106
TCAGGTCTGCTGTGATGGGTCACATGGGCC
>H2-K_LsgRNA107
TCAGGTGATCTCTGGCTGTGAAGTGGGGTC
>H2-K_LsgRNA108
TACCGTGCACGCTGCTCCTGCTGTTGGCGG
>H2-K_LsgRNA109
CCGAGTGGACCTGAGGACCCTGCTCGGCTA
>H2-K_LsgRNA110
AAACGTGGACGGCGGCGGACATGGCGGCGC

>H2-K_LsgRNA111
GACCGTTGCTGTTCTGGTTGTCCTTGGAGC
>H2-K_LsgRNA112
AAGATAAAGTCACCCTGAGGTGCTGGGCCC
>H2-K_LsgRNA113
CATGTACCGGGGCTCCCCGAGGCCGGGCCG
>H2-K_LsgRNA114
GAAATACCTCAGCGAGTGTGGGCCTGGGGG
>H2-K_LsgRNA115
ACTTTATCTTCAGGTCTGCTGTGATGGGTC
>H2-K_LsgRNA116
GTACTCACCCGCGCGGGTCTGAGTCGGAGC
>H2-K_LsgRNA117
CTCCTCCATCCACTGTCTCCAACATGGCGA
>H2-K_LsgRNA118
GCGTTCCCGTTCTTCAGGTATCTGCGGAGC
>H2-K_LsgRNA119
GGGGTCCGACGGGCGACTCCTCCGCGGGTA
>H2-K_LsgRNA120
TGGCTCCGCAGATACCTGAAGAACGGGAAC
>H2-K_LsgRNA121
CTGGTCTCCACAAGCTCCATGTCCTGGATC
>H2-K_LsgRNA122
TTGCTCTGGTTGTAGTAGCCGAGCAGGGTC
>H2-K_LsgRNA123
GCCCTGAACGAAGACCTGAAAACGTGGACG
>H2-K_LsgRNA124
TGCCTGAGCCCCTCACCTGAGATGGGGTA
>H2-K_LsgRNA125
GATATGAGCCGCGGGCGCGGTGGATGGAGC
>H2-K_LsgRNA126
CAGGTGATCTCTGGCTGTGAAGTGGGGTCC
>H2-K_LsgRNA127
GCTGTGATGGGTCACATGGGCCTTTGGGGA
>H2-K_LsgRNA128
GAGCTGCAATAGTCACTGGAGCTGTGGTGG
>H2-K_LsgRNA129
CTCCTGCTCCATCCACCGCGCCCGCGGCTC
>H2-K_LsgRNA130
CTTCTGGAAGGTTCCATCCCCTGCAGGCCT
>H2-K_LsgRNA131
TACCTGGAGGGCACGTGCGTGGAGTGGCTC
>H2-K_LsgRNA132
CATCTGTGGTGGTGCCTCTTGGGAAGGAGC

>H2-K_LsgRNA133
 CTCCTTACCCCATCTCAGGGTGAGGGGCTC
 >H2-K_LsgRNA134
 CATGTTGGAGACAGTGGATGGAGGAGGCTC
 >H2-K_LsgRNA135
 GAGCTTGTGGAGACCAGGCCTGCAGGGGAT

(32) S_{15}^- : 210 low on-target activity sgRNAs targeting CD45

>CD45_LsgRNA1
 ATACAAAAGGAAGATTGCTGATGAGGGCAG
 >CD45_LsgRNA2
 CCAGAAACGCCTAAGCCTAGTTGTGGGGAT
 >CD45_LsgRNA3
 AAGGAAAGCAGACTTATGGAGACATGGAAG
 >CD45_LsgRNA4
 AGCAAAAAGGCCACAGTTATTGTCATGGTCA
 >CD45_LsgRNA5
 TCCAAAATGCTAAGTGTGGAAATGAGGATT
 >CD45_LsgRNA6
 TTCCAACAAAATGTCAGAATGGATTGGCTC
 >CD45_LsgRNA7
 GATGAACAACAGGAACTCGTTGAAAGGGGT
 >CD45_LsgRNA8
 CAGGAACCCCATGGTCTGGCCAGCTGGTGA
 >CD45_LsgRNA9
 CAAGAAGAAAATAAGAAGAAGAACAGGAAT
 >CD45_LsgRNA10
 CTA AAAAGAAACGATCGGTGACTTTTGGCAG
 >CD45_LsgRNA11
 GGCCAAGCATGGAGGAAGGCACTCGGGCTT
 >CD45_LsgRNA12
 TGGAAAGTGCAGAAACAGAAGATGTGGTTG
 >CD45_LsgRNA13
 CCTGAATCATAGACACCAGGTCTTTGGGTT
 >CD45_LsgRNA14
 TGTCAATGGGAAGATTCAAAGAAATGGGAC
 >CD45_LsgRNA15
 ATGAACAACAGGAACTCGTTGAAAGGGGTG
 >CD45_LsgRNA16
 AGGCACAGAACAACCCTGTCTGCTGGGATC
 >CD45_LsgRNA17
 AGGCACAGTATATCCTGATTCATCAGGCTT
 >CD45_LsgRNA18
 AGCTACCACAACGAAGCAAACATGTGGTAA

>CD45_LsgRNA19
ACTTACCACATGTTTGCTTCGTTGTGGTAG
>CD45_LsgRNA20
AGACACCAGGTCTTTGGGTTCTGCAGGCAG
>CD45_LsgRNA21
GTGTACCAGTACCAGTGTACCACATGGAAA
>CD45_LsgRNA22
CAGTACCAGTGTACCACATGGAAAAGGGGAA
>CD45_LsgRNA23
ATCCACCCAGTGACCCCTCCCCTCTGGAGG
>CD45_LsgRNA24
CCTCACCTGCTCCTCAAACCTTCGACGGAGA
>CD45_LsgRNA25
TGCTACCTGGTATTTCAGCCTCCAGAGGGGA
>CD45_LsgRNA26
CTCTACGCAAAGCACGGCCTGGGGTGGTGT
>CD45_LsgRNA27
TTATACTATTGTCTGTGCGCCGGGAGGTTT
>CD45_LsgRNA28
GCAGACTGTTCTGGCTGAATTCAGGTAT
>CD45_LsgRNA29
AACCAGAAATGATGATTGCTGCTCAGGGGC
>CD45_LsgRNA30
AGAGAGAAATTGACATTCACCTGGTGGTAC
>CD45_LsgRNA31
CTGTAGAACAAGTGCGCAGAATACTGGCCA
>CD45_LsgRNA32
CCAAAAGACCTGGTGTCTATGATTCAGGACC
>CD45_LsgRNA33
TGACAGAGATGGATCCCAGCAGACAGGGTT
>CD45_LsgRNA34
TCATAGAGGAACCTGGTATTGCTCCTGGTGA
>CD45_LsgRNA35
CTCCAGAGGGGAGGGGTCACTGGGTGGATC
>CD45_LsgRNA36
TGACAGAGTTAGTGAATGGAGACCAGGTTT
>CD45_LsgRNA37
TTACAGATGATGAAAAGCAGCTGATGGATG
>CD45_LsgRNA38
G TTCAGCTTCTGAATGATGTAATCAGGACA
>CD45_LsgRNA39
ACCCAGGAAATACATTGCTGCACAAGGTAA
>CD45_LsgRNA40
ATCTAGGAAGTCTGTGCTCAGTACTGGGGC

>CD45_LsgRNA41
TTTGAGGAGCAGGTGAGGGTCTTCAGGAAC

>CD45_LsgRNA42
TCACAGGGAAGAATGTCAACATAACGGTTT

>CD45_LsgRNA43
CAGAAATCATCAACTGTCTCATCCCGGGGC

>CD45_LsgRNA44
TAAAAGTCTGATTACTAGATTCATAGGTGT

>CD45_LsgRNA45
ACAGAGTGCCACTTAAGCATGAACTGGAGA

>CD45_LsgRNA46
CAAAAGTTCGGAGAGTGTAGGCTGAGGCTC

>CD45_LsgRNA47
CAGGAGTTGGAGGACACAGCACATTGGAAA

>CD45_LsgRNA48
TGTTATAAATGTGCAGACAGATTTGGGGAG

>CD45_LsgRNA49
GCTAATACTTCAATTTGTTTGGAGTGGAAA

>CD45_LsgRNA50
CCCCATCAGCTTCCTAACCTGCAGTGGACG

>CD45_LsgRNA51
CTGAATCATAGACACCAGGTCTTTGGGTTC

>CD45_LsgRNA52
CTTCATCCCTTCTGGGGAAGCCTTGGGAAG

>CD45_LsgRNA53
GCTCATCTCCAGTTCATGCTTAAGTGGCAC

>CD45_LsgRNA54
TATGATCTGCGCAAGAAAAGATCCAGGTAA

>CD45_LsgRNA55
GTTGATGACTTCTGGAGGATGATCTGGGAG

>CD45_LsgRNA56
CGGGATGAGACAGTTGATGACTTCTGGAGG

>CD45_LsgRNA57
GTCAATGGGAAGATTCAAAGAAATGGGACT

>CD45_LsgRNA58
TGTCATGGTCACACGATGTGAAGAAGGAAA

>CD45_LsgRNA59
GTCTATGGTTATGTTGTCAAGCTAAGGCGA

>CD45_LsgRNA60
AGTAATGTTCCCAAACATGGCAGCTGGAAA

>CD45_LsgRNA61
TGTGATGTTGACAGAGTTAGTGAATGGAGA

>CD45_LsgRNA62
ATACATTACTTACATCAATGTAGCTGGCAT

>CD45_LsgRNA63
TGGTATTCAGCCTCCAGAGGGGAGGGGTCA
>CD45_LsgRNA64
TTTTATTCTGATTGTGGGGCTTTCGGGCAT
>CD45_LsgRNA65
CATACAAAAGGAAGATTGCTGATGAGGGCA
>CD45_LsgRNA66
GTGACAAAGACTTCTGTGTCCAGAAGGGCA
>CD45_LsgRNA67
TGAACAACAGGAACTCGTTGAAAGGGGTGA
>CD45_LsgRNA68
CCCACAAC TAGGCTTAGGCGTTTCTGGAAC
>CD45_LsgRNA69
GCTGCAAGAAAAACGTTAGTCTCTTGGCCT
>CD45_LsgRNA70
TGGCCAAGCATGGAGGAAGGCACTCGGGCT
>CD45_LsgRNA71
GTTTCAAGCTTTCACCTCAAACTGGTCA
>CD45_LsgRNA72
AAGGCACAGAACAACCCTGTCTGCTGGGAT
>CD45_LsgRNA73
AATTCACAGTAATGTTCCCAAACATGGCAG
>CD45_LsgRNA74
AATTCACCAGCTGGCCAGACCATGGGGTTC
>CD45_LsgRNA75
GTCACACGATGTGAAGAAGGAAACAGGGTA
>CD45_LsgRNA76
TCTCCAGATATGACCATGGGTTTGTGGCTC
>CD45_LsgRNA77
TTCACAGCAATTTAGATGAACAACAGGAAC
>CD45_LsgRNA78
CACCCAGTGACCCCTCCCCTCTGGAGGCTG
>CD45_LsgRNA79
CATTCATACCTGAAAGATGTCAGTTGGACA
>CD45_LsgRNA80
CATGCATCCATCCTCGTCCACTGCAGGTTA
>CD45_LsgRNA81
ACTTCATCCCTTCTGGGGAAGCCTTGGGAA
>CD45_LsgRNA82
CCTACATTGGAATTGATGCCATGCTGGAAG
>CD45_LsgRNA83
TCCTCATTTCCACACTTAGCATTTTGGACA
>CD45_LsgRNA84
TATTCCACTAAAGCCTGATGAATCAGGATA

>CD45_LsgRNA85
ACATCCACTTTGCCCTCTGCTTCCAGGCCT
>CD45_LsgRNA86
TCTTCCCATTTGACATAGGCAAGTAGGGACA
>CD45_LsgRNA87
TCTTCCCCTTTCCATGTGGTACACTGGTAC
>CD45_LsgRNA88
GTGTCCCTACTTGCCTATGTCAATGGGAAG
>CD45_LsgRNA89
CCTCCCCTCTGGAGGCTGAATACCAGGTAG
>CD45_LsgRNA90
AGGACCTCAAACAGAAGCTTCCCAAGGCTT
>CD45_LsgRNA91
ATATCCTGATTCATCAGGCTTTAGTGAAT
>CD45_LsgRNA92
GAAGCCTTGGGAAGCTTCTGTTTGAGGTCC
>CD45_LsgRNA93
CCGTGGAAGTTTGAGGAGCAGGTGAGGGTC
>CD45_LsgRNA94
AGCCCGAGTGCCTTCCTCCATGCTTGGCCA
>CD45_LsgRNA95
CTGGCGATGATGTCATAGAGGAACTGGTAT
>CD45_LsgRNA96
AGTGCGCAGAATACTGGCCAAGCATGGAGG
>CD45_LsgRNA97
TCTGCTACACATGTGTAATTTGTTTGGGCA
>CD45_LsgRNA98
TCAGCTCAAAAGTTCGGAGAGTGTAGGCTG
>CD45_LsgRNA99
GTGACTCATATCCAATTCACCAGCTGGCCA
>CD45_LsgRNA100
CAGCCTCCAGAGGGGAGGGGTCACTGGGTG
>CD45_LsgRNA101
AAGTCTCTACGCAAAGCACGGCCTGGGGTG
>CD45_LsgRNA102
GGATCTCTCTTCTTCATGTTGTGTAGGCAT
>CD45_LsgRNA103
CATGCTGGAAGGCCTGGAAGCAGAGGGCAA
>CD45_LsgRNA104
TACACTGGTACTGGTACACAGTTCTGGGCT
>CD45_LsgRNA105
CTACCTGGTATTCAGCCTCCAGAGGGGAGG
>CD45_LsgRNA106
TCAACTGTCTCATCCCGGGGCCCTAGGAGT

>CD45_LsgRNA107
TGTTCTGTGCCTTGTTCAATCTCTTGAAA
>CD45_LsgRNA108
TTTTCTTAGAGACTTCCTTCATACAGGAGT
>CD45_LsgRNA109
GAAGCTTCCCAAGGCTTCCCCAGAAGGGAT
>CD45_LsgRNA110
GCAACTTCTTCAGTGGTCCCATTGTGGTGC
>CD45_LsgRNA111
TCCAGAAACGCCTAAGCCTAGTTGTGGGGA
>CD45_LsgRNA112
ACCAGAAATGATGATTGCTGCTCAGGGGCC
>CD45_LsgRNA113
CTAGGAAGTCTGTGCTCAGTACTGGGGCGA
>CD45_LsgRNA114
CGTCGAAGTTTGAGGAGCAGGTGAGGGTCT
>CD45_LsgRNA115
TCTGGACACAGAAGTCTTTGTACAGGTAA
>CD45_LsgRNA116
TAGGGACACTTCATAGTATTTATAAGGTTT
>CD45_LsgRNA117
AGCAGACTTATGGAGACATGGAAGTGGAGA
>CD45_LsgRNA118
TAGAGACTTCCTTCATACAGGAGTTGGAGG
>CD45_LsgRNA119
TTTTGAGCTGAGACATTCCAAGGTAGGTAA
>CD45_LsgRNA120
TCTGGAGGATGATCTGGGAGCAAAAGGCCA
>CD45_LsgRNA121
AGCAGAGGGCAAAGTGGATGTCTATGGTTA
>CD45_LsgRNA122
CAAAGATGTCCAAAATGCTAAGTGTGAAA
>CD45_LsgRNA123
AGATGCAGACTCAGGTTTAGATACAGGCTC
>CD45_LsgRNA124
AGCTGCCTGCAGAACCCAAAGACCTGGTGT
>CD45_LsgRNA125
CCATGCTGGAAGGCCTGGAAGCAGAGGGCA
>CD45_LsgRNA126
TCTAGGAAGTCTGTGCTCAGTACTGGGGCG
>CD45_LsgRNA127
CATTGGAATTGATGCCATGCTGGAAGGCCT
>CD45_LsgRNA128
CAAAGGATGCATTAATGTATTTGCTGGTTT

>CD45_LsgRNA129
TTCTGGCCTTTGGATTTGCCCTTCTGGACA
>CD45_LsgRNA130
CTGGGGCGAAGGAAAGCAGACTTATGGAGA
>CD45_LsgRNA131
AAAAGGCTAATACTTCAATTTGTTTGGAGT
>CD45_LsgRNA132
GTGGGGCTTTCGGGCATCTTTGATGGGAAA
>CD45_LsgRNA133
TGTTGGGCGTACAGGTACCTACATTGGAAT
>CD45_LsgRNA134
TGTGGGGCTTTCGGGCATCTTTGATGGGAA
>CD45_LsgRNA135
CCATGGGTTTGTGGCTCAAACCTTCTGGCCT
>CD45_LsgRNA136
ATGTGGTCCTCCTTATGAAACTAATGGCCC
>CD45_LsgRNA137
TTGAGGTCCTGAATCATAGACACCAGGTCT
>CD45_LsgRNA138
CCATGGTCTGGCCAGCTGGTGAATTGGATA
>CD45_LsgRNA139
CAATGTAGCTGGCATTATGTAGGTGGACC
>CD45_LsgRNA140
CCTGGTATTCAGCCTCCAGAGGGGAGGGGT
>CD45_LsgRNA141
AGAAGTCATCAACTGTCTCATCCCGGGGCC
>CD45_LsgRNA142
CTGTGTCCAGAAGGGCAAATCCAAAGGCCA
>CD45_LsgRNA143
AGTGGTCCCATTTGTGGTGCACCTGCAGGTAA
>CD45_LsgRNA144
CTGTGTCCTCCAACCTCCTGTATGAAGGAAG
>CD45_LsgRNA145
GCTTGTGATACTTCATCCCTTCTGGGGAAG
>CD45_LsgRNA146
CCGTGTGGAACCTCTCTGAAATAAATGGAGA
>CD45_LsgRNA147
GAGTGTGGGTACCTACCATCACAAAGGATG
>CD45_LsgRNA148
GTTTGTTCCTTAGTGCTGGTGTGGGCGT
>CD45_LsgRNA149
ATGCTAAAGCACTGATTATATTCCTGGTGT
>CD45_LsgRNA150
GTGGTAAAGTCTCTACGCAAAGCACGGCCT

>CD45_LsgRNA151
GCATTAACTCTCCGTCTCGAAGTTTGAGGAGC
>CD45_LsgRNA152
CTGCTACACATGTGTAATTTGTTTGGGCAC
>CD45_LsgRNA153
CCAGTACCAGTGTACCACATGGAAAGGGGA
>CD45_LsgRNA154
TCTTTACCTGCAGTGCACCACAATGGGACC
>CD45_LsgRNA155
AGAATACTGGCCAAGCATGGAGGAAGGCAC
>CD45_LsgRNA156
TGAGTAGAAAAAAGAAAAAGCAACTGGAAG
>CD45_LsgRNA157
ATGTTATAAATGTGCAGACAGATTTGGGGA
>CD45_LsgRNA158
CATTTATACTATTGTCTGTCTGGCCGGGAGG
>CD45_LsgRNA159
TTCATATGTACTCCACTGTGAGCCAGGTAC
>CD45_LsgRNA160
CTGGTATTCAGCCTCCAGAGGGGAGGGGTC
>CD45_LsgRNA161
TTTTTATTCTGATTGTGGGGCTTTCGGGCA
>CD45_LsgRNA162
CACCTCAAACTGGTCACATTATTAGGCAA
>CD45_LsgRNA163
AAGGTCAATGGAATGAAAACCTCCCGGCCG
>CD45_LsgRNA164
GATGTCACAATAATCAGAAACACCAGGAAT
>CD45_LsgRNA165
CAATTCACCAGCTGGCCAGACCATGGGGTT
>CD45_LsgRNA166
CACTTCACCTCGGATTGCAGAGGAAGGAGC
>CD45_LsgRNA167
AGACTCAGTTTTAGATACAGGCTCAGGCCA
>CD45_LsgRNA168
AGCCTCCAGAGGGGAGGGGTCACTGGGTGG
>CD45_LsgRNA169
ATCTTCCCATTGACATAGGCAAGTAGGGAC
>CD45_LsgRNA170
AGTGTCCCTACTTGCCTATGTCAATGGGAA
>CD45_LsgRNA171
ACTCTCCGTCTCGAAGTTTGAGGAGCAGGTGA
>CD45_LsgRNA172
AGTCTCTACGCAAAGCACGGCCTGGGGTGG

>CD45_LsgRNA173
AAAGTCTCTACGCAAAGCACGGCCTGGGGT
>CD45_LsgRNA174
ACTCTCTGAAATAAATGGAGATGCAGGGTC
>CD45_LsgRNA175
ATCATCTGAAGACTCATCTGATTCAGGCTC
>CD45_LsgRNA176
CACTTCTGACTACCAAATGTAAAAGGTTT
>CD45_LsgRNA177
AGGGTCTTCAGGAACCCCATGGTCTGGCCA
>CD45_LsgRNA178
ATGATGAAAAGCAGCTGATGGATGTGGAGC
>CD45_LsgRNA179
TACATGACTGCACACCAAAGAAAAGGCTA
>CD45_LsgRNA180
TTGATGACTTCTGGAGGATGATCTGGGAGC
>CD45_LsgRNA181
CCCCTGAGCAGCAATCATCATTTCTGGTTT
>CD45_LsgRNA182
TTGCTGATGAGGGCAGACTGTTCTGGCTG
>CD45_LsgRNA183
GAATTGATGCCATGCTGGAAGGCCTGGAAG
>CD45_LsgRNA184
TAGATGCTGGCGATGATGTCATAGAGGAAC
>CD45_LsgRNA185
CCTCTGCTTCCAGGCCTTCCAGCATGGCAT
>CD45_LsgRNA186
TTTGTGGCTCAAACCTTCTGGCCTTTGGATT
>CD45_LsgRNA187
TCCATGGGGTTTAGATGCAGACTCAGGTTT
>CD45_LsgRNA188
ACACTGGTACTGGTACACAGTTCTGGGCTC
>CD45_LsgRNA189
ATGATGTAATCAGGACATCGTTTGTGGTCA
>CD45_LsgRNA190
CATGTGTAATTTGTTTGGGCACGAAGGTTG
>CD45_LsgRNA191
TGCTTGTGATACTTCATCCCTTCTGGGGAA
>CD45_LsgRNA192
ACCTTGTGCAGCAATGTATTTCTGGGTTC
>CD45_LsgRNA193
AGTCTGTGCTCAGTACTGGGGCGAAGGAAA
>CD45_LsgRNA194
TGTTTGTTCCTTAGTGCTGGTGTGGGCG

>CD45_LsgRNA195
 GGTTTTAGGGCCATTAGTTTCATAAGGAGG
 >CD45_LsgRNA196
 GGCTTTAGTGGGAATACAATCAGTTTGGAGA
 >CD45_LsgRNA197
 ACATTTATACTATTGTCTGTCTGGCCGGGAG
 >CD45_LsgRNA198
 TGTTTTATGCTATAAGAACAATTCAGGTAA
 >CD45_LsgRNA199
 ACTATTCAACTGACTATGAGTTTCTGGTAA
 >CD45_LsgRNA200
 GGTTTTCATTCATTGACCTTGTCCGGACC
 >CD45_LsgRNA201
 AAGCTTCCAAGGCTTCCCCAGAAGGGATG
 >CD45_LsgRNA202
 CAGCTTCCTAACCTGCAGTGGACGAGGATG
 >CD45_LsgRNA203
 AGACTTCCTTCATACAGGAGTTGGAGGACA
 >CD45_LsgRNA204
 TTCTTTGAATCTTCCCATTGACATAGGCAA
 >CD45_LsgRNA205
 AAGGTTGTCCAAGTACATCTTTCAGGTAT
 >CD45_LsgRNA206
 ATGCTTGTGATACTTCATCCCTTCTGGGGA
 >CD45_LsgRNA207
 TACCTTGTGCAGCAATGTATTTCTGGGTT
 >CD45_LsgRNA208
 AGATTTTATACAAAACAACAAGCAAGGCTA
 >CD45_LsgRNA209
 CTCTTTTCACAATGGAGTGTACGAGGGAGA
 >CD45_LsgRNA210
 TATGTTTCCAACAAAATGTCAGAATGGATT

(33) S_{16}^- : 49 low on-target activity sgRNAs targeting THY1

>THY1_LsgRNA1
 CAATAAAAGTATCAGTGTGTATAGAGGTGA
 >THY1_LsgRNA2
 CACAAAAGTAGTCGCCCTCATCCTTGGTGG
 >THY1_LsgRNA3
 AGAGAAGAGGAAGCACGTGCTCTCAGGCAC
 >THY1_LsgRNA4
 ATCCACAGACAAGCTGGTCAAGTGTGGCGG
 >THY1_LsgRNA5
 AAGCACGTGCTCTCAGGCACCCCTTGGGATA

>THY1_LsgRNA6
CGGTACGTGTGCTCGGGTATCCCAAGGGTG
>THY1_LsgRNA7
CATCAGCGTCGCTCTCCTGCTCTCAGGTAC
>THY1_LsgRNA8
GAGCAGGAGAGCGACGCTGATGGCTGGGTT
>THY1_LsgRNA9
ATCCAGGATGTGTTCTGAACCAGCAGGCTT
>THY1_LsgRNA10
GGCTAGGGTAAGGACCTTGATATAGGGCTG
>THY1_LsgRNA11
ACTCATGCTGGATGGAGTTATCCTTGGTGT
>THY1_LsgRNA12
TAGCCAACTTCACCACCAAGGATGAGGGCG
>THY1_LsgRNA13
GGTTCACCAGGCAGGCTGTCAGGCTGGTCA
>THY1_LsgRNA14
GAAGCACGTGCTCTCAGGCACCCTTGGGAT
>THY1_LsgRNA15
AGAGCACGTGCTTCCTCTTCTCTCGGGTCA
>THY1_LsgRNA16
AAGGCACTGCTGTGCCAGTCTTGCAGGTGT
>THY1_LsgRNA17
GGGTCAGGCTGAACTCATGCTGGATGGAGT
>THY1_LsgRNA18
ACTGCCGCCATGAGAATAACACCAAGGATA
>THY1_LsgRNA19
CTGCCCTCGGGACACCTGCAAGACTGGCAC
>THY1_LsgRNA20
TCATCCTTGGTGGTGAAGTTGGCTAGGGTA
>THY1_LsgRNA21
GACGCGGGAGCGGTACGTGTGCTCGGGTAT
>THY1_LsgRNA22
CGCCCTCATCCTTGGTGGTGAAGTTGGCTA
>THY1_LsgRNA23
CCCTCTCCAACCAGCCCTATATCAAGGTCC
>THY1_LsgRNA24
GACCCTTGCCCAGTACCTGAGAGCAGGAGA
>THY1_LsgRNA25
AGGTGACCAGCCTGACAGCCTGCCTGGTGA
>THY1_LsgRNA26
TAAGGACCTTGATATAGGGCTGGTTGGAGA
>THY1_LsgRNA27
GAGCGACGCTGATGGCTGGGTTTCATGGTGC

>THY1_LsgRNA28
CTGAGAGCAGGAGAGCGACGCTGATGGCTG
>THY1_LsgRNA29
GAGAGCACGTGCTTCCTCTTCTCTCGGGTC
>THY1_LsgRNA30
TCTTGCAGGTGTCCCGAGGGCAGAAGGTGA
>THY1_LsgRNA31
TGACGCGGGAGCGGTACGTGTGCTCGGGTA
>THY1_LsgRNA32
TCAGGCTGGTCACCTTCTGCCCTCGGGACA
>THY1_LsgRNA33
TAGGGCTGGTTGGAGAGGGTGACGCGGGAG
>THY1_LsgRNA34
ACGTGCTTCCTCTTCTCTCGGGTCAGGCTG
>THY1_LsgRNA35
AGCAGGAGAGCGACGCTGATGGCTGGGTTC
>THY1_LsgRNA36
TGGCGGCAGTCCAGGCGAAGGTTTTGGTTC
>THY1_LsgRNA37
GTCAGGCTGGTCACCTTCTGCCCTCGGGAC
>THY1_LsgRNA38
GCCTGGTGAACCAAAACCTTCGCCTGGACT
>THY1_LsgRNA39
TTTTGGTTCACCAGGCAGGCTGTCAGGCTG
>THY1_LsgRNA40
AAAAGTAGTCGCCCTCATCCTTGGTGGTGA
>THY1_LsgRNA41
TCAAGTGTGGCGGCATAAGCCTGCTGGTTC
>THY1_LsgRNA42
AGGGTAAGGACCTTGATATAGGGCTGGTTG
>THY1_LsgRNA43
TGGCTAGGGTAAGGACCTTGATATAGGGCT
>THY1_LsgRNA44
GAGTTATCCTTGGTGTATTCTCATGGCGG
>THY1_LsgRNA45
GTGTTATTCTCATGGCGGCAGTCCAGGCGA
>THY1_LsgRNA46
GAGTTCAGCCTGACCCGAGAGAAGAGGAAG
>THY1_LsgRNA47
ACCTTGATATAGGGCTGGTTGGAGAGGGTG
>THY1_LsgRNA48
TGGTTGGAGAGGGTGACGCGGGAGCGGTAC
>THY1_LsgRNA49
CCCCTTCTCTATCCACAGACAAGCTGGTCA

(34) S₁₇: 110 low on-target activity sgRNAs targeting CD43

>CD43_LsgRNA1
ACAGAAACTGATGGGCTGGCATTCTGGGCT
>CD43_LsgRNA2
CCCCAAAGAGGAGGAGAAGGTGCAAGGCCA
>CD43_LsgRNA3
TGGAAACTACTGAATTGTCTTCTTTGGAGA
>CD43_LsgRNA4
CAGAAACTGATGGGCTGGCATTCTGGGCTT
>CD43_LsgRNA5
CTGGAAGCAGTGCTGATGTCTTGCTGGAAA
>CD43_LsgRNA6
CTCGAAGGAGACCATCAGCCCCCTGGGGGCA
>CD43_LsgRNA7
GACAACAAGCTCTAACGAGACCAGTGGACC
>CD43_LsgRNA8
TGTCACAGGATTGGCTGCAGTGACAGGAGG
>CD43_LsgRNA9
TACAACAGTAAGCTCCAAGACCAGTGGTCC
>CD43_LsgRNA10
TGTCACCACAGCTACTGGGTCTCTGGGGCC
>CD43_LsgRNA11
AACCACCACCAAGGCAATAAGCATGGGCAC
>CD43_LsgRNA12
AGAGACCCAGTAGCTGTGGTGACAGGGGGA
>CD43_LsgRNA13
CTGTACCTGAGCCTACTGCCTCTCAGGAAG
>CD43_LsgRNA14
GGTGACCTGGTGGTTATGGGATCTTGGGTA
>CD43_LsgRNA15
CCCACTGGA ACTCTCCACAGAACTGGTTG
>CD43_LsgRNA16
AGGTACTTGGAGCTGTGATATGTGGGGTAG
>CD43_LsgRNA17
GCCAAGAATCAAGTGGCATGTTACTGGTGC
>CD43_LsgRNA18
CGTTAGAGCTTGTGTGTCACAGTGGTGGGGG
>CD43_LsgRNA19
CGCCAGAGGCAAAAGCGGAGGACTGGGGCC
>CD43_LsgRNA20
TTAGAGCTTGTGTGTCACAGTGGTGGGGGT
>CD43_LsgRNA21
TCGAAGGAGACCATCAGCCCCCTGGGGGCAG

>CD43_LsgRNA22
TGAGAGGCAGTAGGCTCAGGTACAGGGGTG
>CD43_LsgRNA23
GCTCAGGTACAGGGGTGCTCATGCTGGCAC
>CD43_LsgRNA24
CTGCAGGTCCGTCTGTACAGGATTGGCTG
>CD43_LsgRNA25
AGGGAGTCCATGCATCTCACTCGAGGGCCC
>CD43_LsgRNA26
TAACATGCCACTTGATTCTTGGCTTGGTGA
>CD43_LsgRNA27
CAGCATGCCCCAAAGAGGAGGAGAAGGTGC
>CD43_LsgRNA28
GCCACAACAGCAGTAGCGCCACGAGGGCCA
>CD43_LsgRNA29
TTGTCACAGTGGTGGGGGTGCACTGGTTC
>CD43_LsgRNA30
CTGTCACCACAGCTACTGGGTCTCTGGGGC
>CD43_LsgRNA31
AAACCACCACCAAGGCAATAAGCATGGGCA
>CD43_LsgRNA32
GCGCCAGAGGCAAAAGCGGAGGACTGGGGC
>CD43_LsgRNA33
AGCCCATCAGTTTCTGTGGGGTCAGGGACA
>CD43_LsgRNA34
TGCCCATGCTTATTGCCTTGGTGGTGGTTT
>CD43_LsgRNA35
GTTTCCAAGGGGGTCAAAGAAACTGGGATT
>CD43_LsgRNA36
AGACCCAGTAGCTGTGGTGACAGGGGGACC
>CD43_LsgRNA37
CAGCCCATCAGTTTCTGTGGGGTCAGGGAC
>CD43_LsgRNA38
GAGACCCAGTAGCTGTGGTGACAGGGGGAC
>CD43_LsgRNA39
CAATCCCAGTTTCTTTGACCCCTTGAAAA
>CD43_LsgRNA40
CTGACCCACAGAACTGATGGGCTGGCAT
>CD43_LsgRNA41
AGGGCCCCAGAGACCCAGTAGCTGTGGTGA
>CD43_LsgRNA42
TGGTCCCCCTGTCACCACAGCTACTGGGTC
>CD43_LsgRNA43
GGTCCCCCTGTCACCACAGCTACTGGGTCT

>CD43_LsgRNA44
TTCTCCTCCTCTTTGGGGCATGCTGGGTCC
>CD43_LsgRNA45
TGTCCCTGACCCACAGAACTGATGGGCT
>CD43_LsgRNA46
GTGACCTGGTGGTTATGGGATCTTGGGTAG
>CD43_LsgRNA47
GACTCGAAGGAGACCATCAGCCCCTGGGGG
>CD43_LsgRNA48
CTAACGAGACCAGTGGACCCTCTGTGGCTA
>CD43_LsgRNA49
GTGGCGAGCCAGACAGTCTGCAGAGGACG
>CD43_LsgRNA50
AACTCTCCACAGAACTGGTTGCTGTGGTAG
>CD43_LsgRNA51
GTCACTGGCTACATTTGATGGTTCTGGAAG
>CD43_LsgRNA52
TTGGCTTGGTGACCTGGTGGTTATGGGATC
>CD43_LsgRNA53
AGAGCTTGTGTGCACAGTGGTGGGGGGTGC
>CD43_LsgRNA54
TCCTCTTTGGGGCATGCTGGGTCCAGGTGG
>CD43_LsgRNA55
CACAGAACTGGTTGCTGTGGTAGCAGGGAG
>CD43_LsgRNA56
ACTCGAAGGAGACCATCAGCCCCTGGGGGC
>CD43_LsgRNA57
TGGTGACAGGGGGACCACTGGTCTTGGAGC
>CD43_LsgRNA58
CAGAGACCCAGTAGCTGTGGTGACAGGGGG
>CD43_LsgRNA59
TGCAGACTGTCTGGGCTCGCCACCTGGACC
>CD43_LsgRNA60
TGTGGAGAGTTCCAGTGTGGCCCGTGGCAC
>CD43_LsgRNA61
GTTAGAGCTTGTGTGCACAGTGGTGGGGGG
>CD43_LsgRNA62
CTGAGAGGCAGTAGGCTCAGGTACAGGGGT
>CD43_LsgRNA63
CCACGAGGGCCAAAACCACCACCAAGGCAA
>CD43_LsgRNA64
CAGGGAGTCCATGCATCTCACTCGAGGGCC
>CD43_LsgRNA65
TGCAGCATCTACATCTATCTCTAAAGGAAC

>CD43_LsgRNA66
GAATGCCAGCCCATCAGTTTCTGTGGGGTC
>CD43_LsgRNA67
TGGTGCCCATGCTTATTGCCTTGGTGGTGG
>CD43_LsgRNA68
TTCTGCTGGAAACTGAGGTGCCACGGGGCCA
>CD43_LsgRNA69
TGGAGCTTACTGTTGTAGCCACAGAGGGTC
>CD43_LsgRNA70
CTTGGCTTGGTGACCTGGTGGTTATGGGAT
>CD43_LsgRNA71
TAGAGCTTGTGTGCACAGTGGTGGGGGGTG
>CD43_LsgRNA72
CACAGGATTGGCTGCAGTGACAGGAGGGTC
>CD43_LsgRNA73
ACTGGGATTGTGGTCTGCCCCAGGGGCTG
>CD43_LsgRNA74
GAGAGGCAGTAGGCTCAGGTACAGGGGTGC
>CD43_LsgRNA75
TTGTGGCGCCAGAGGCAAAAGCGGAGGACT
>CD43_LsgRNA76
TTATGGGATCTTGGGTAGACGTCGTGGATG
>CD43_LsgRNA77
AACTGGGATTGTGGTCTGCCCCAGGGGCT
>CD43_LsgRNA78
AGGAGGGTCACTGGCTACATTTGATGGTTC
>CD43_LsgRNA79
AGGGGGTCAAAGAAACTGGGATTGTGGTCT
>CD43_LsgRNA80
TACTGGTGCCCATGCTTATTGCCTTGGTGG
>CD43_LsgRNA81
ACCAGTAACATGCCACTTGATTCTTGGCTT
>CD43_LsgRNA82
TGGGGTCAGGGACAGTGGACTCGAAGGAGA
>CD43_LsgRNA83
CATCGTCGTCCTCTGCAGACTGTCTGGGCT
>CD43_LsgRNA84
TCTCGTTAGAGCTTGTGTGCACAGTGGTGG
>CD43_LsgRNA85
CTGCTACCACAGCAACCAGTTCTGTGGAGA
>CD43_LsgRNA86
GCGCTACTGCTGTTGTGGCGCCAGAGGCAA
>CD43_LsgRNA87
GAGGTACTTGGAGCTGTGATATGTGGGGTA

>CD43_LsgRNA88
TGCTTATTGCCTTGGTGGTGGTTTTGGCCC
>CD43_LsgRNA89
CAGGTCACCAAGCCAAGAATCAAGTGGCAT
>CD43_LsgRNA90
AGTTTCCAAGGGGGTCAAAGAAACTGGGAT
>CD43_LsgRNA91
CTTCTCCTCCTCTTTGGGGCATGCTGGGTC
>CD43_LsgRNA92
AACTTCCTGAGAGGCAGTAGGCTCAGGTAC
>CD43_LsgRNA93
ATCGTCGTCCTCTGCAGACTGTCTGGGCTC
>CD43_LsgRNA94
GCCCTCGTGGCGCTACTGCTGTTGTGGCGC
>CD43_LsgRNA95
TCCGTCTGTCACAGGATTGGCTGCAGGGAC
>CD43_LsgRNA96
ATTGTCTTCTTTGGAGACTTCTGCTGGTGC
>CD43_LsgRNA97
AAACTGAGGTGCCACGGGCCACACTGGAAC
>CD43_LsgRNA98
CACTTGATTCTTTGGCTTGGTGACCTGGTGG
>CD43_LsgRNA99
GCCTTGCACCTTCTCCTCCTCTTTGGGGCA
>CD43_LsgRNA100
TGGCTGCAGTGACAGGAGGGTCACTGGCTA
>CD43_LsgRNA101
AGAATGCCAGCCCATCAGTTTCTGTGGGGT
>CD43_LsgRNA102
TTTCTGCTGGAACTGAGGTGCCACGGGCC
>CD43_LsgRNA103
AAACTGGGATTGTGGTCTGCCCCAGGGGC
>CD43_LsgRNA104
CTGTTGTAGCCACAGAGGGTCCACTGGTCT
>CD43_LsgRNA105
CTGTTGTGGCGCCAGAGGCAAAAGCGGAGG
>CD43_LsgRNA106
TAGCTGTGGTGACAGGGGGACCACTGGTCT
>CD43_LsgRNA107
GGCATTCTGGGCTTCAGAGGTACTTGGAGC
>CD43_LsgRNA108
CCAGTTCTGTGGAGAGTTCCAGTGTGGCCC
>CD43_LsgRNA109
CAGTTTCTGTGGGGTCAGGGACAGTGGACT

>CD43_LsgRNA110
GGCCTTGCACCTTCTCCTCCTCTTTGGGGC