

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGA	60
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGG	120
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AAACGCCTGGTATCTTTATAGTCCTGTCTGGGTTTCGCCACCTCTGACTTGAGCGTCGATT	180
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
TCGG--TTCGC-ACCTCTGACTTGAGCGTCGATT	31

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TTTGTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAACGCCAGCAACGCGGCCTTTTT	240
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
TTTGTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAACGCCAGCAACGCGGCCTTTTT	91

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ACGTTTCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGA	300
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
ACGTTTCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGA	151

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ATCGATAACGCCAGCAACGCGGCCTTTTTACGTTGACAATTAATCATCGGCTCGTATAA	360
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
ATCGATAACGCCAGCAACGCGGCCTTTTTACGTTGACAATTAATCATCGGCTCGTATAA	211

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TGGTGTGGTGTGTTGTGAGCGGATAACAAGCAGGAGTTGGAACGCATGGAACGAGCTATAC	420
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
TGGTGTGGTGTGTTGTGAGCGGATAACAAGCAGGAGTTGGAACGCATGGAACGAGCTATAC	271

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AAGGAAACGACGCTAGGGAACAAGCTAACAGTGAACGTTGGGATGGAGGATCAGGAGGTA	480
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
AAGGAAACGACGCTAGGGAACAAGCTAACAGTGAACGTTGGGATGGAGGATCAGGAGGTA	331

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CCACTTCTCCCTTCAAACCTCCTGACGAAAGTCCGAGTTGGACTGAGTGCGGCTACATA	540
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
CCACTTCTCCCTTCAAACCTCCTGACGAAAGTCCGAGTTGGACTGAGTGCGGCTACATA	391

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ACGATGAGACGAATTCGAATCAAGATAATCCCCTTGTTTTCAAGGAAAGCTGGGGTTTTCG	600
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
ACGATGAGACGAATTCGAATCAAGATAATCCCCTTGTTTTCAAGGAAAGCTGGGGTTTTCG	451

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGAAAGTTGTATTTAAGAGATATCTCAGATACGACAGGACGGAAGCTTCACTGCACAGAG	660
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	

GGAAAGTTGTATTTAAGAGATATCTCAGATACGACAGGACGGAAGCTTCACTGCACAGAG 511

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
TCCTTGATCTTGGACGGGAGATTTCGGTAACTATGCAGCATCTCGATTTTTTCGGTTTTCG 720

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
TCCTTGATCTTGGACGGGAGATTTCGGTAACTATGCAGCATCTCGATTTTTTCGGTTTTCG 571

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
ACCAGATCGGATGTACCTATAGTATTCGGTTTTCGAGGAGTTAGTATCACCGTTTCTGGAG 780

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
ACCAGATCGGATGTACCTATAGTATTCGGTTTTCGAGGAGTTAGTATCACCGTTTCTGGAG 631

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
GGTCGCGAACTCTTCAGCATCTCTGTGAGATGGCAATTCGGTCTAAGCAAGAACTGCTAC 840

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
GGTCGCGAACTCTTCAGCATCTCTGTGAGATGGCAATTCGGTCTAAGCAAGAACTGCTAC 691

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
AGCTTGCCCAATCGAAGTGGAAAGTAATGTATCAAGAGGATGCCCTGAAGGTAAGTACTCAA 900

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
AGCTTGCCCAATCGAAGTGGAAAGTAATGTATCAAGAGGATGCCCTGAAGGTAAGTACTCAA 751

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
CCTTCGAAAAAGAAAGCGAGCACCACCACCACCACCCTGACAAATAAAACGAAAGGCTC 960

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
CCTTCGAAAAAGAAAGCGAGCACCACCACCACCACCCTGACAAATAAAACGAAAGGCTC 811

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
AGTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTGTGTCGGTGAACGCTCTCTTACTCA 1020

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
AGTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTGTGTCGGTGAACGCTCTCTTACTCA 871

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
TATATACTATCTCTAGAGGGCCCGTTTAAACCCGCTGATCAGCTAATACGACTCACTATA 1080

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
TATATACTATCTCTAGAGGGCCCGTTTAAACCCGCTGATCAGCTAATACGACTCACTATA 931

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGGGAGCTCGTCGTA-CCTGA-
GATTGCTCCAGGGGAGGAATGCCCTAGCGATCCAGTTA 1138

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
GGGGAGCTCGCGTAACCTGAAGATT----- 991

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
CCGATCCAGCTCATCCCTGCACCCCGCGAACCTGGTGGCCAATACGGTGAACGCGATGT 1198

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
----- 1051

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
TTCACAATGGCAGGGTGGTAGTGGACGGACCGCAATGCTAACTCTTCAGGTTCTCGCAC 1258

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322
----- 1111

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)
ACAACATGGCAGAGAGAACCACTGCCTTGCTGTGCAGTGCGGCCCCAGACGCCGGCGCCA 1318

pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1171

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ACACCGCCTCTACCACTAACAACCTCGAGTCTAGAGCGCACGTATACACGCGCTGATCAGCG	1378
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1231

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TCGACTGTTAGTGGTAGAGGCGGTGTTGGCGCCGGCGTCTGGGGCCGCACTGCACAGCAA	1438
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1291

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGCAGTGGTTCTCTCTGCCATGTTGTGTGCGAGAACCTGAAGAGTTAGCATTGCCGGTCC	1498
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1351

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GTCCACTACCACCCTGCCATTGTGAAACATCGCGTTCACCGTATTGGCCACCAGTTTCGC	1558
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1411

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGGGTGCAGGGGATGAGCTGGATCGGTAACCTGGATCGCTAGGGCATTCTCCCCTGGAGC	1618
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1471

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AATCTCAGGTACGACGCGGCCCTAGCATAACCCCGCGGGGCCTCTTCGGGGGTCTCGC	1678
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1531

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGGGTTTTTTGCTGAAAGACGGTTCCTGGCCTTTTGCTGGCCTTTTGCGGATCCGAAACG	1738
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1591

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CGCGAGACGAAAGGGCCTCGTGATACGCCATTTTTATAGGTTAATGTCATGATAATAAT	1798
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1651

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTT	1858
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1711

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCT	1918
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1771

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)	

TCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	1978
-----	1831
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CTTTTTTGCGGCATTTCCTTGCCTTCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2038
-----	1891
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGG pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2098
-----	1951
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TAAGATCCTTGAGAGTTTTTCGCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2158
-----	2011
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTGCGCG pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2218
-----	2071
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CATACACTATTCTCAGAATGACTTGGTTGAGTACTCACAGTACAGAAAAGCATCTTAC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2278
-----	2131
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAAACTGC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2338
-----	2191
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2398
-----	2251
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) CATGGGGGATCATGTAACCTGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATAAC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2458
-----	2311
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAATATT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2518
-----	2371
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AACTGGCGAACTACTTACTTAGCTTCCCGCAACAATTAATAGACTGGATGGAGGCGGA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2578
-----	2431

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2638
-----	2491
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2698
-----	2551
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2758
-----	2611
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2818
-----	2671
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TTACTCATATATACTTTAGATTGATTTAAACTTCATTTTTTAATTTAAAAGGATCTAGGT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2878
-----	2731
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) GAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTTCGTTCCACTG pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2938
-----	2791
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	2998
-----	2851
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTGGTTTGTGGCCGGATCA pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	3058
-----	2911
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) AGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCAGCAGAGCGCAGATACCAAATAC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	3118
-----	2971
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) TGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCCGCCTAC pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	3178
-----	3031
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD) ATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCT pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	3238
-----	3091

pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)	
TACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGG	3298
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
-----	3151
pUC19-p19-6xHis-siRNA UL19 (Tac-Lac0-SD)	
GGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACT	3346
pUC19-p19-UL19 siRNA (Tac-Lac0-SD) pBR322	
-----	957