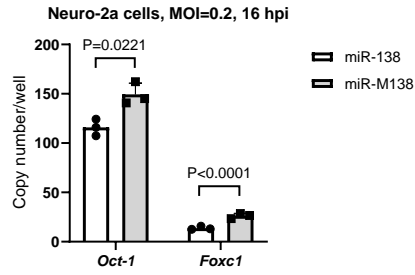


1

2 Fig. S1. Effects of miR-138 on HSV-2 replication in different cells. HeLa (left), 293T  
 3 (middle) and Vero (right) cells were transfected with 10 nM of the indicated mimic for  
 4 24 h, then infected with the indicated virus for 24 h at the indicated MOI before viral  
 5 titer measurements. Data are presented as mean values  $\pm$  S.D. Data were analyzed by  
 6 two-way ANOVA with Sidak's multiple comparisons tests.

7



8

9 Fig. S2. Reduction of *Foxc1* and *Oct-1* mRNA levels by transfected miR-138. Neuro-

10 2a cells were transfected with 80 nM of the indicated miRNA mimic for 24 h, then

11 infected with HSV2 strain 186 virus for 16 h (MOI = 1) before qRT-PCR analysis of

12 *Oct-1* (left) and *Foxc1*(right) mRNA levels

13

14 Table S1. Sequences of primers used for cloning.

15

primer names	Sequence
V2ICP0Ecof	TGTAGAATTCTCGCTCCCCGCGTAATTACTCCCTC
V2ICP0Hindr1	CCAGAAGCTTGGGGAGCTGCATCAAAGGCCAACAA
V2ICP0Pstf	TCTGTCTCCCTCTGCAGTGGACTA
V2ICP0Hindr2	CCAGAAGCTTATTTTCGCGGATCCGGCGTGTTTC
V2-0M138Af	GAACAGCAACACACAGCTGAATTTTGTTATGGAC
V2-0M138Ar	GTCCATAACAAAATTCAGCTGTGTGTTGCTGTTC
V2-0M138Bf	TGCCCCCGAGGCGCCTCGTCAGCTGGTCCGGGGGGGG GCGG
V2-0M138Br	CCGCCCCCCCCCGGACCAGCTGACGAGGCGCCTCGGG GGCA
pUL19-F	ATGGCCGCTCCTGCCCGCGACCCCCGGGTACCGGTA CGCCGCGGCCATGGTGCCACCGGCTCCATC
pUL19-R	TTTATTGGGACCTGCCCTCGGAATCGCGGCTCCCAGTC CAA
pUL20-F	CGGAATTCATGACAATGCGGGATGATGTTTCCTTT GGGGTACCTTTTATTGGGACCTGCCCTCGGAATCGCGG
pUL20-R	CTCCCAGTCCAA
psiV1ICP0UTRf	GACTCTCGAGGGACGCCCCGTGTTTGTGGGGA
psiV1ICP0UTRr	CGTAGCGGCCGCTAGGGCCAACACAAAAGACCC

psiV2ICP0UTRf	ATCGCTCGAGGGGGAGCTAACACTCGGCTT
psiV2ICP0UTRr	GCCAGCGGCCGCCCTCAAGTTTTCAACAAGGCCAGA
Q5-MAB-F	TGAGAGGCGCCTCGGGGGCAG
Q5-MAB-R	GCTGGCTTCCCTTCGGGCAGCAAGC
Q5-MB-4GtoA-F	GACCACCAGCCGAGGCGCCTCGGGGGCAG
Q5-MB-4GtoA-R	CGGGGGGGGGCGGCTTCCCTTCGGGCAGCAAGC
Q5-MB-4GtoU-F	GACCACCTGCCGAGGCGCCTCGGGGGCAG
Q5-MB-4GtoU-R	CGGGGGGGGGCGGCTTCCCTTCGGGCAGCAAGC
Q5-MA-1AtoG-F	ACACACCAGCGTTTTGTTATGGACTTTCTGGCCTTGTT GAAAACCTTGAGGG
Q5-MA-1AtoG-R	GTTGCTGTTCGGGGCCGTGTCCGTCCCCC
Q5-9AtoC-F	GACCAGCTGACGAGGCGCCTCGGGGGCAG
Q5-9AtoC-R	CGGGGGGGGGCGGCTTCCCTTCGGGCAGCAAGC GCGAATTCGCCACCATGGACTACAAAGACGATGACGA
LVFoxc1fw	TAAAGGGGGCGGTGGAGGTTCTAGAATGCAGGCGCGC TACTCCG
LVFoxc1rv	GCGGATCCTCAAACTTGCTACAGTCGTAGACGAAAG
LacZfwAfl	TGATCAGCTAGCTTAAGTAACGCC
lacZrvSma	ATCGATGAATTCGAGCTCGCC

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17 Table S2. Sequences of primers for qPCR

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qPCR primer or probe name	Sequence
qpcr-V2-ICP0-F	GTGCATGAAGACCTGGATTCC
qpcr-V2-ICP0-R	GGTCACGCCCACTATCAGGTA
qPCR-V2-LAT-F	GTCAACACGGACACACTCTTTTT
qPCR-V2-LAT-R	CGAGGCCTGTTGGTCTTTATC
miR-138-F	AGCGCGAGCTGGTGTGT
miR-138-Probe	(FAM)-TACGACCGGCCTGATTC-(MGB)
miR-138-R	CCAGTGCAGGGTCCGAGGTA
qLV-mcherry-F	GGCACCAACTTCCCCTCC
qLV-mcherry-R	TCTGCTTGATCTCGCCCTTC

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19

20 Table S3. Sequences of primers used for sequencing the ICP0 gene of strain 186.

21

ICP0 seq primer	Sequence
ICP0-seqF1	CATTCGCACCCCGGCACT
ICP0-seqF2	TTCAGCACCATCCCGATAGTGAACGA
ICP0-seqR1	TCCGCTGGTTGCCCGTC
ICP0-seqF3	AGGCTCAGACCGACACCCAAGCA
ICP0-seqR2	GGAGGACGAGGCCGCAGG
ICP0-seqR3	TCATCCAGAGGCTGTTCC
ICP0-seqR4	CTCCTCCTCCTCCCTTCC

22

23

24 Table S4. List of sequences from clinical isolates used for sequence alignment

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HSV-2 sequences

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D10471.1	KX574890.2	MF510283.1	MF510325.1	MF510366.1	MH790575.1	MH790616.1	MH790658.1
JN561323.2	KX574891.2	MF510284.1	MF510326.1	MF510367.1	MH790576.1	MH790617.1	MH790659.1
KF781518.1	KX574892.2	MF510285.1	MF510327.1	MF510368.1	MH790577.1	MH790618.1	MH790660.1
KP192856.1	KX574893.2	MF510286.1	MF510328.1	MF510369.1	MH790578.1	MH790619.1	MH790662.1
KP334093.1	KX574894.2	MF510287.1	MF510329.1	MF510370.1	MH790579.1	MH790620.1	MH790663.1
KP334094.1	KX574895.2	MF510288.1	MF510330.1	MF510371.1	MH790580.1	MH790621.1	MH790664.1
KP334095.1	KX574896.2	MF510289.1	MF510331.1	MF564034.1	MH790581.1	MH790622.1	MH790665.1
KP334096.1	KX574897.2	MF510291.1	MF510332.1	MF564035.1	MH790582.1	MH790623.1	MH790666.1
KP334097.1	KX574898.2	MF510292.1	MF510333.1	MF564036.1	MH790584.1	MH790624.1	MH790667.1
KX574860.2	KX574899.2	MF510293.1	MF510334.1	MF564037.1	MH790585.1	MH790625.1	MH790668.1
KX574861.2	KX574901.2	MF510294.1	MF510335.1	MF621254.1	MH790586.1	MH790626.1	MH790669.1
KX574862.2	KX574902.2	MF510295.1	MF510336.1	MF621255.1	MH790587.1	MH790627.1	MH790670.1
KX574863.2	KX574903.2	MF510296.1	MF510337.1	MF621256.1	MH790588.1	MH790628.1	MH790671.1
KX574864.2	KX574904.2	MF510297.1	MF510338.1	MF621257.1	MH790589.1	MH790629.1	MH796783.1
KX574865.2	KX574905.2	MF510298.1	MF510339.1	MF621258.1	MH790590.1	MH790630.1	MH796784.1
KX574866.2	KX574906.2	MF510299.1	MF510340.1	MH790550.1	MH790591.1	MH790631.1	MH899846.1
KX574867.2	KY922720.1	MF510300.1	MF510341.1	MH790551.1	MH790592.1	MH790632.1	MK105995.1
KX574868.2	KY922721.1	MF510301.1	MF510342.1	MH790552.1	MH790593.1	MH790633.1	MK105996.1
KX574869.2	KY922722.1	MF510302.1	MF510343.1	MH790553.1	MH790595.1	MH790636.1	MK105997.1

KX574870.2	KY922723.1	MF510303.1	MF510345.1	MH790554.1	MH790596.1	MH790637.1	MK105998.1
KX574871.2	KY922726.1	MF510307.1	MF510346.1	MH790555.1	MH790597.1	MH790638.1	MK105999.1
KX574872.2	LS480640.1	MF510308.1	MF510347.1	MH790556.1	MH790598.1	MH790639.1	MK106000.1
KX574873.2	M69065.1	MF510309.1	MF510348.1	MH790557.1	MH790599.1	MH790640.1	MK106001.1
KX574874.2	MF510267.1	MF510310.1	MF510349.1	MH790558.1	MH790600.1	MH790641.1	MK106002.1
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KX574876.2	MF510269.1	MF510312.1	MF510351.1	MH790560.1	MH790602.1	MH790644.1	MK106004.1
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KX574879.2	MF510272.1	MF510315.1	MF510354.1	MH790563.1	MH790605.1	MH790647.1	
KX574880.2	MF510273.1	MF510316.1	MF510356.1	MH790564.1	MH790606.1	MH790648.1	
KX574881.2	MF510274.1	MF510317.1	MF510357.1	MH790565.1	MH790607.1	MH790649.1	
KX574882.2	MF510275.1	MF510318.1	MF510358.1	MH790566.1	MH790608.1	MH790650.1	
KX574883.2	MF510276.1	MF510319.1	MF510359.1	MH790567.1	MH790609.1	MH790651.1	
KX574884.2	MF510277.1	MF510320.1	MF510360.1	MH790568.1	MH790610.1	MH790652.1	
KX574885.2	MF510278.1	MF510320.1(2)	MF510361.1	MH790569.1	MH790611.1	MH790653.1	
KX574886.2	MF510279.1	MF510321.1	MF510362.1	MH790570.1	MH790612.1	MH790654.1	
KX574887.2	MF510280.1	MF510322.1	MF510363.1	MH790571.1	MH790613.1	MH790655.1	
KX574888.2	MF510281.1	MF510323.1	MF510364.1	MH790572.1	MH790614.1	MH790656.1	
KX574889.2	MF510282.1	MF510324.1	MF510365.1	MH790573.1	MH790615.1	MH790657.1	

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## HSV-1 sequences

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AB618031.1	KF498959.1	KR011304.1	KX265037.1	MG708285.1	MG999870.1	MH160366.1	MH813992.1
DQ889502.1	KJ847330.1	KR011305.1	KX265038.1	MG708286.1	MG999871.1	MH160367.1	MH813993.1
FJ593289.1	KM222721.1	KR011306.1	KX265039.1	MG708287.1	MG999872.1	MH160368.1	MH813994.1
GU734771.1	KM222722.1	KR011307.1	KX265040.1	MG708288.1	MG999873.1	MH160369.1	MH925774.1
GU734772.1	KM222723.1	KR011308.1	KX265041.1	MG708289.1	MG999874.1	MH160370.1	MH999838.1
HM585496.2	KM222724.1	KR011309.1	KX265042.1	MG708290.1	MG999875.1	MH160371.1	MH999839.1
HM585497.2	KM222725.1	KR011310.1	KX265043.1	MG708291.1	MG999876.1	MH160372.1	MH999840.1
HM585498.2	KM222726.1	KR011311.1	KX265044.1	MG708292.1	MG999877.1	MH160373.1	MH999841.1
HM585499.2	KM222727.1	KR011312.1	KX265045.1	MG999838.1	MG999878.1	MH160374.1	MH999842.1
HM585500.2	KR011274.1	KR052507.1	KX265046.1	MG999839.1	MG999879.1	MH160375.1	MH999843.1
HM585501.2	KR011275.1	KR052508.1	KX424525.1	MG999840.1	MG999880.1	MH160376.1	MH999844.1
HM585502.2	KR011276.1	KT425107.1	KX791878.1	MG999841.1	MG999881.1	MH160377.1	MH999845.1
HM585503.2	KR011277.1	KT425108.1	KX791976.1	MG999842.1	MG999882.1	MH160378.1	MH999846.1
HM585504.2	KR011278.1	KT425109.1	KX792006.1	MG999843.1	MG999883.1	MH160379.1	MH999847.1
HM585505.2	KR011279.1	KT425110.1	KX946970.1	MG999845.1	MG999884.1	MH160380.1	MH999848.1
HM585506.2	KR011280.1	KT780616.1	KY922718.1	MG999846.1	MG999885.1	MH160381.1	MH999849.1
HM585507.2	KR011281.1	KT887224.1	KY922719.1	MG999847.1	MG999886.1	MH160382.1	MH999849.1
HM585508.2	KR011282.1	KT899744.1	LT576866.1	MG999848.1	MG999887.1	MH160383.1	MH999850.1
HM585509.2	KR011283.1	KU310657.1	LT576867.1	MG999849.1	MG999888.1	MH160384.1	MH999851.1
HM585510.2	KR011284.1	KU310657.1	LT576868.1	MG999850.1	MG999889.1	MH160385.1	MK952183.1
HM585511.2	KR011285.1	KU310658.1	LT576869.1	MG999851.1	MG999890.1	MH160386.1	MK952184.1

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HM585512.2	KR011286.1	KU310659.1	LT576870.1	MG999852.1	MG999891.1	MH160387.1	MK952185.1
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HM585515.2	KR011289.1	KX265022.1	LT594106.1	MG999855.1	MG999894.1	MH160390.1	MN159376.1
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JN420338.1	KR011294.1	KX265027.1	LT594111.1	MG999860.1	MG999899.1	MH813982.1	MN159381.1
JN420339.1	KR011295.1	KX265028.1	LT594112.1	MG999861.1	MH102298.1	MH813983.1	MN159382.1
JN420340.1	KR011296.1	KX265029.1	LT594192.1	MG999862.1	MH160358.1	MH813984.1	MN159382.1(2)
JN420341.1	KR011297.1	KX265030.1	LT594457.1	MG999863.1	MH160359.1	MH813985.1	MN159383.1
JN420342.2	KR011298.1	KX265031.1	M17921.1	MG999864.1	MH160360.1	MH813986.1	X04614.1
JN555585.1	KR011299.1	KX265032.1	M74421.1	MG999865.1	MH160361.1	MH813987.1	X14112.1
JQ673480.1	KR011300.1	KX265033.1	M90438.1	MG999866.1	MH160362.1	MH813988.1	
JQ730035.1	KR011301.1	KX265034.1	MF156584.1	MG999867.1	MH160363.1	MH813989.1	
JQ780693.1	KR011302.1	KX265035.1	MG646679.1	MG999868.1	MH160364.1	MH813990.1	
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