**Virologica Sinica**

**Supplementary Data**

**Elucidating cellular interactome of chikungunya virus identifies host dependency factors**

**Peiqi Yina,b, Xia Jianb, Yihan Liuc,d, Yuwen Liuc, Lu Lvc,d, Haoran Cuic,d, Leiliang Zhanga,c,d,\***

*a Department of Clinical Laboratory Medicine, The First Affiliated Hospital of Shandong First Medical University & Shandong Provincial Qianfoshan Hospital, Jinan, 250013, China*

*b NHC Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100176, China*

*c Department of Pathogen Biology, School of Clinical and Basic Medical Sciences, Shandong First Medical University & Shandong Academy of Medical Sciences, Jinan, 250117, China*

*d Medical Science and Technology Innovation Center, Shandong First Medical University & Shandong Academy of Medical Sciences, Jinan, 250117, China*

\* Corresponding author.

*E-mail addresses*: armzhang@hotmail.com (L. Zhang)

**Supplementary Table S1** siRNA sequences in this study.

|  |  |  |
| --- | --- | --- |
| siRNA | Sense chain | Antisense chain |
| Control siRNA | UUCUCCGAACGUGUCACGUTT | ACGYGACACGYYCGGAGAATT |
| TCP1 siRNA #1 | GCUGCAGCUUCGAUUGCCATT | UGGCAAUCGAAGCUGCAGCTT |
| TCP1 siRNA #2 | GGUGUACAGGUGGUCAUUATT | UAAUGACCACCUGUACACCTT |
| TCP1 siRNA #4 | GCUUGCGAUUGCAGAGUUUTT | AAACUCUGCAAUCGCAAGCTT |
| CCT2 siRNA #1 | CCUGGAGGCAAUUCAUAUUTT  | AAUAUGAAUUGCCUCCAGGTT  |
| CCT2 siRNA #3 | GGAAGUCAUGAUUGGAGAATT | UUCUCCAAUCAUGACUUCCTT |
| CCT2 siRNA #4 | GCAAUGGAGUCUUAUGCUATT | UAGCAUAAGACUCCAUUGCTT |
| CCT4 siRNA #1 | GCGGUUGCUGAUGCUAUUATT | UAAUAGCAUCAGCAACCGCTT |
| CCT4 siRNA #4 | CCACUUCACUGAACUCAAATT | UUUGAGUUCAGUGAAGUGGTT |
| CCT5 siRNA #1 | GCAAAGGCUGUAGCAAAUATT  | UAUUUGCUACAGCCUUUGCTT  |
| CCT5 siRNA #2 | GCGGAGAGACGUUGACUUUTT  | AAAGUCAACGUCUCUCCGCTT  |
| CCT5 siRNA #4 | GCAUCGACUGUUUGCACAATT | UUGUGCAAACAGUCGAUGCTT |
| CCT6A siRNA #1 | AAAGACGGCAAUGUGCUGCUUTT | AAGCAGCACAUUGCCGUCUUUTT |
| CCT6A siRNA #2 | GCGGUCAACAUCAGCGCAGTT | CUGCGCUGAUGUUGACCGCTT |
| CCT6A siRNA #3 | GCUGGAGACAUCAAACUUATT | UAAGUUUGAUGUCUCCAGCTT |
| CCT8 siRNA #1 | GUACCUCCAUAAUGAGUAATT | UUACUCAUUAUGGAGGUACGA |
| CCT8 siRNA #2 | GCUGAGGCAUUUGAAGCUATT | UAGCUUCAAAUGCCUCAGCTT |
| STT3A siRNA #1 | CCACAUCACCAUCGACAUUTT | AAUGUCGAUGGUGAUGUGGTT |
| STT3A siRNA #2 | GCAUGCUACUCACCUACUATT | UAGUAGGUGAGUAGCAUGCTT |
| Sec61A1 siRNA #1 | GCCUCUAACAGAGGCACAUTT  | AUGUGCCUCUGUUAGAGGCTT  |
| Sec61A1 siRNA #2 | GCUGGAAUUUGCCUGCUAATT  | UUAGCAGGCAAAUUCCAGCTT  |
| Sec61A1 siRNA #3 | CCAACCUCAUGAAUCUCAUTT  | AUGAGAUUCAUGAGGUUGGTT |
| BCAP1siRNA #1 | CCUUCUUUGUGGUUCUCAUTT | AUGAGAACCACAAAGAAGGUG |
| BCAP1 siRNA #2 | GUAUGAUGAUGUGACGGAATT | UUCCGUCACAUCAUCAUACUU |
| FHL1siRNA #1 | GGAGGUGCACUAUAAGAACTT | GUUCUUAUAGUGCACCUCCUU |
| FHL1 siRNA #2 | UCUGGCCAACAAGCGCUUUTT | AAAGCGCUUGUUGGCCAGAUU |
| IDE siRNA #1 | GCUCACAGCGGAAUAUUUATT | UAAAUAUUCCGCUGUGAGCTT |
| IDE siRNA #2 | GGAUGUAUCUUUCAGUGAATT | UUCACUGAAAGAUACAUCCTT |
| LRPPRCsiRNA #1 | GGAGGAAGCAAACAUUCAATT  | UUGAAUGUUUGCUUCCUCCTT  |
| STUB1 siRNA1 | CCAAGCACGACAAGUACAUTT | AUGUACUUGUCGUGCUUGGUU |
| STUB1 siRNA2 | GGAGAUGGAGAGCUAUGAUTT  | AUCAUAGCUCUCCAUCUCCTT  |
| STUB1 siRNA3 | CCAAGCACGACAAGUACAUTT  | AUGUACUUGUCGUGCUUGGTT  |
| VCP siRNA #1 | CAGCCAUUCUCAAACAGAATT | UUCUGUUUGAGAAUGGCUGUUTT |
| VCP siRNA #3 | GGAGGUAGAUAUUGGAAUUTT | AAUUCCAAUAUCUACCUCCTT |
| G3BP1 siRNA #1 | GGGAAUUUGUGAGACAGUATT  | UACUGUCUCACAAAUUCCCTT  |
| G3BP1 siRNA #2 | GCCUGAGCCAGUAUUAGAATT  | UUCUAAUACUGGCUCAGGCTT  |
| G3BP1 siRNA #3 | GCGAGAACAACGAAUAAAUTT  | AUUUAUUCGUUGUUCUCGCTT  |
| G3BP2 siRNA #1 | GCUUGUAGGGCGGGAGUUUTT | AAACUCCCGCCCUACAAGCTT |
| G3BP2 siRNA #2 | GGAGGAGAAGAACUUAGAATT | UUCUAAGUUCUUCUCCUCCTT |
| G3BP2 siRNA #3 | GCUGCAAGAGAGCGAGAAATT | UUUCUCGCUCUCUUGCAGCTT |

**Supplementary Table S2** Sequences of primers used in qPCR.

|  |  |  |
| --- | --- | --- |
| Gene | Forward primer | Reverse primer |
| CHIKV | CATCTGCACCCAAGTGTACCA | GCGCATTTTGCCTTCGTAATG |
| GAPDH | GGAGCGAGATCCCTCCAAAAT | GGCTGTTGTCATACTTCTCATGG |
| TCP1 | CCAGCCACGCTATCCAGTC | TCAAGGCAAGCAATTTTTGCAT |
| CCT2  | GCACTACCTCTGTTACCGTTTT | CTTCTCTCCAACCCGCTATGA |
| CCT4  | ATGCCCGAGAATGTGGCAC | GCTTGTCGCGGTCCTGATAG |
| CCT5  | ACCGCAAGTCCCGTCTTATG | CCCATTTGGTCCAAGTGATGTT |
| CCT6A  | TGACGACCTAAGTCCTGACTG | ACAGAACGAGGGTTGTTACATTT |
| CCT8  | AGGAGGGAGCGAAACACTTTT | GTTGCTGCATCGTTTGTCACA |
| STT3A  | TTGGGACGAATCATTGGAGGA | GTAAGGTGGTACGTGACGATG |
| Sec61A1 | TCATCCTGCCGGAAATTCAGA | AGGGTGATAGCGGTCCACA |
| BCAP31 | CCTCTATGCGGAGGTCTTTGT | CCGTCACATCATCATACTTCCGA |
| FHL1 | TGCTGCCTGAAATGCTTTGAC | GCCAGAAGCGGTTCTTATAGTG |
| IDE | TTTTCAGCCCATTTGCTTATGTG | TGCATACTCGTTGAGTGAGTCTT |
| LRPPRC | CGGAGGACTACTGAGCCCA | AGCGGCAGGTATCATTAAAAACT |
| STUB1 | AGCAGGGCAATCGTCTGTTC | CAAGGCCCGGTTGGTGTAATA |
| VCP | CAAACAGAAGAACCGTCCCAA | TCACCTCGGAACAACTGCAAT |
| G3BP1 | CGGGCGGGAATTTGTGAGA | TCTGTCCGTAGACTGCATCTG |
| G3BP2 | GTAGGGCGGGAGTTTGTGAG | CTGGGGCTTTCCACTAGCATC |

**Supplementary Table S3** Candidate proteins associated with CHIKV viral proteins from GFP trap in 293 cells (viral proteins VS GFP).xls