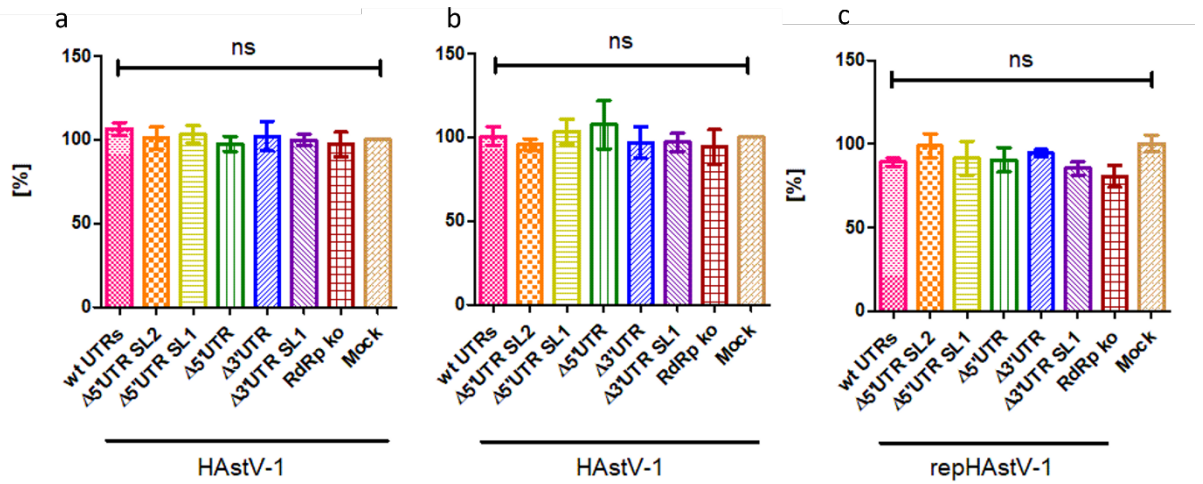


**Table S1:** Primers used for the construction of Human Astrovirus 1 mutant viruses and dual-reporter replicons

HA1_del_5'UTR_SL2_F	CTCGTTTAATGGCACACGGTGAGCCA
HA1_del_5'UTR_SL2_R	GTGCCATTAAACGAGCAGAGAAATGTTATCT
HA1_del_5'UTR_SL1_F	ATAGCCAAGTTTACCATACAATTAACAACAAGA
HA1_del_5'UTR_SL1_R	GGTAAACTTGGCTATAGTGAGTCGTATTAGGT
HA1_del_5'UTR_F	CACTATAGATGGCACACGGTGAGCCA
HA1_del_5'UTR_R	GTGCCATCTATAGTGAGTCGTATTAGGTATT
HA1_del_3'UTR_SL1_F	TCTTTTCTTTGATTTAATCAGAAGCAAAAAAAAA
HA1_del_3'UTR_SL1_R	AAATCAAAGAAAAGAAGGAAGCTGTACC
HA1_del_3'UTR_F	CCGAGTAGTTGATTTAATCAGAAGC
HA1_del_3'UTR_R	AATCAACTACTCGGCGTGCCGCG
ins_fluc_ORF1_HA1_F	ACACGGTGAGATGGAAGACGCCAAAAACATAAAG
ins_fluc_ORF1_HA1_R	TATGGCTCACCGTGTGCCATTTACAATTTGGACTTTCCGCCC
lin_HA1_ORF1_15bp_F	ATGGCACACGGTGAGCCATAC
lin_HA1_ORF1_15bp_R	CGTCTTCCATCTCACCGTGTGCCATCTTGTTGTTAATTGTATGGTAAACG
lin_2A_ORF1_HA1_F	ATGGCACACGGTGAGCCA
lin_2A_ORF1_HA1_R	CGTCTTCCATCTCACCGTGTGCCATCTTGTTGTTAATTGTATGGTAAACG
ins_2A_ORF1_HA1_F	ACACGGTGAGATGGAAGACGCCAAAAACATAAAG
Ins_2A_ORF1_HA1_R	CTCACCGTGTGCCATAGGGCCGGGATTCTCTCCACGTCACCAGCCTGCTTCAGGAGGCTGAAGTTGGTGGCTCCGG ACCCTTACAATTTGGACTTTCCGCCCT
HA1_del STOP_flucO2I_F	CCAAATTGGGGTCCGGAGCCACCAAC
HA1_del STOP_flucO2I_R	CGGACCCCAATTTGGACTTTCCGCCCTTCTTG
HA1_ORF1_45bp ins_F	GGTCGTGAAGCGATTACAGATGTCTGCCTGTTTCATCC
HA1_ORF1_45bp ins_R	TTTGCGCTCTTCCATATCTTTGTCAGGTTTAGAGC
lin_pAVIC_45bp_F	ATGGAAGACGCCAAAAACATAAAG
lin_pAVIC_45bp_R	AATCGCTTCACGACCACG
Lin_ORF2_GFP/nluc_F	AAATCAGTCAAGATTACAGTCAATT
Lin_ORF2_GFP/nluc_R	ATCTCGGCCCTAGATTGT
Ins_GFP/nluc_F	TCTAGGGGCCGAGATATGGTGTCCAAGGGCGAAGAGC
Ins_GFP/nluc_R	AATCTTGACTGATTTTCACGCCAGAATGCGTTTCG
HA1_GDG_Muta_F	GGAGATGGGAGGCTTTCTACAACACCTTCG
HA1_GDG_Muta_R	AAGCCTCCCATCTCCATAAACTACAGTGTCAT





**Figure S2:** Cell viability of transfected and infected cells. (a) Transfected BSR-T7 with HuAstV-1 clone and mutants. (b) Infected CaCo-2 cells with HuAstV-1 clone and mutants. (c) Transfected BSR-T7 with HuAstV-1 replicons. All measurement were normalized to the corresponding mock. All experiments were performed trice. For statistical analysis a one-way analysis of variance (ANOVA) followed by a Tukey's multiple comparison test was performed using GraphPad Prism version 5.00 for Windows, GraphPad Software, San Diego California USA.