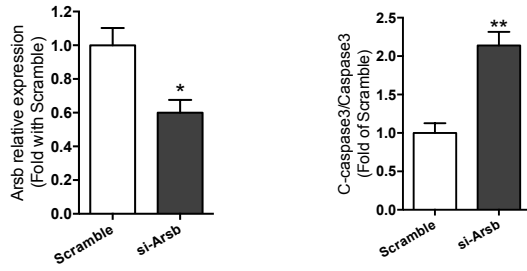
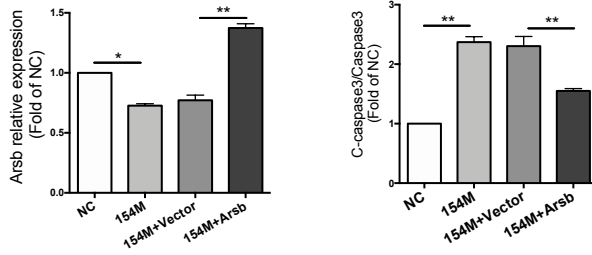


Supplemental figure. 1

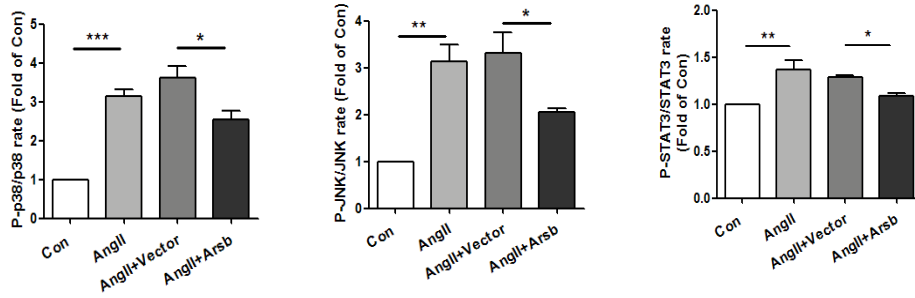
A



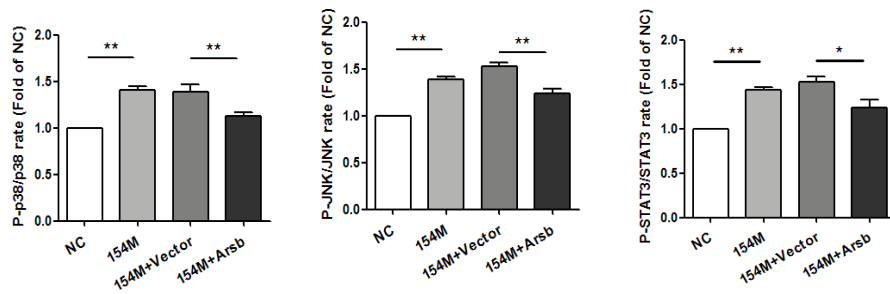
B



C



D



Supplemental Table.1

Candidate gene name	Original sequence	Mutated sequences
Arsb	...AAAAGUAAAAGCUUGAU <u>AACCUA</u>...	...AAAAGUAAAAGCUUG <u>CGCCAAGA</u> ...
Kcna2	...UUUAAAACACAGGAGAU <u>AACCUA</u>...	...UUUAAAACACAGGAG <u>CGCCAAGA</u> ...
IL-6	...UAUAGUUUUGAAAUGAU <u>AACCUA</u>...	...UAUAGUUUUGAAAUG <u>CGCCAAGA</u> ...
Dnm1l	...CUAAAUGAUCCAUGAU <u>AACCUA</u>...	...CUAAAUGAUCCAUG <u>CGCCAAGA</u> ...
Camk4	...AGAUGGUUAUAAAAGAU <u>AACCUG</u>...	...AGAUGGUUAUAAAAG <u>CGCCAAGG</u> ...
Plekha1	...CCUUGUCAUCAGUAGUA <u>ACCUAU</u>...	...CCUUGUCAUCAGUAG <u>GCCAAGAU</u> ...
Apln	...CCCCAAGCCCCAU <u>AUAACCUG</u>...	...CCCCAAGCCCCAU <u>CGCCAAGG</u> ...
Rps6ka5	...ACAGUUGUGUAAUGAU <u>AACCUA</u>...	...ACAGUUGUGUAAUG <u>CGCCAAGC</u> ...
Cops8	...AUUUUAUACACGCUU <u>AUAACCUG</u>...	...AUUUUAUACACGCUU <u>CGCCAAGG</u> ...
Psmf1	...AAUAAUAGCACUUU <u>AUAACCUG</u>...	...AAUAAUAGCACUUU <u>CGCCAAGG</u> ...
Id2	...UGUAUAGUGGCAGAA <u>UAACCUA</u>...	...UGUAUAGUGGCAGAA <u>CGCCAAGA</u> ...
Mmp20	...ACAGAUCCAGGAAAA <u>UAACCUA</u>...	...ACAGAUCCAGGAAA <u>CGCCAAGA</u> ...
Nphs2	...AGACAUGCCCACAGGAU <u>AACCUA</u>...	...AGACAUGCCCACAGG <u>CGCCAAGA</u> ...
Dpp8	...AAUAAUUUUUCAAGGAU <u>AACCUA</u>...	...AAUAAUUUUUCAAGG <u>CGCCAAGA</u> ...
Prr11	...GUUAAUUGAGAUGGGAU <u>AACCUA</u>...	...GUUAAUUGAGAUGGG <u>CGCCAAGA</u> ...
Bach1	...CCUCGUGGGCCGUGGAU <u>AACCUA</u>...	...CCUCGUGGGCCGUGG <u>CGCCAAGA</u> ...