

Supplementary Information

CRISPR/Cas9-mediated large fragment deletion of virulence genes in wild-type

E. coli and its effects on the mTOR signaling pathway

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Table S1. Primers Used for PCR Amplification

Primers	Sequence 5'–3'(forward/reverse)	Annealing Temperature(°C)	Product size(bp)
VgrG2 -F	CGGATTACGTTTCACGCTGG	60	1435
VgrG2 -R	TTCATTAAACCCGCTGCCCT		
PCas-JD-F	TCCATTACCCGTGCGTTTGA	55	483
PCas-JD-R	CGGTAACGCAGATCGGATGA		
PtargetF-JD-F	ATTACCGCCTTTGAGTGAGC	55	337
PtargetF-JD-R	GGATAACAGGGTAATAGATC		
Arm-up-F	TGAAGCAAGATCATCCGGGC	60	503
Arm-up-R	GTGAGTCGACATCTGGCGTT		
Arm-down-F	CAGATGTCGACTCACTAAAGTATG	62	492
	GCGGTCCCATTGTC		
Arm-down-sal I -	<u>TCGAC</u> TGTTGGTCGCCAGGTAAA		
R	GA		
sgRNA- VgrG2-	<u>CTAGT</u> CCTGCCACCGGACGCGTT	63	127
Spe I -F	TGGTTTTAGAGCTAGAAATAGC		
sgRNA- VgrG2-R	GATGATCTTGCTTCATCTAGAGAA		
	TTCAAAAAAAGCACC		
ΔVgrG2-JD-F	TGCACATTATTGGAGGGGCA	60	3002
ΔVgrG2-JD-R	TCCGTCACGCCGGTGATTT		

mTOR-F	GCCACTCTCTGACCCAGTTC	60	209
mTOR-R	GGTTATCCCAACCACGAGCA		
ULK1-F	CACCCACCCAGTACCAGACC	62	175
ULK1-R	ACTTGGGGAGATGGTGTGTAAG		
Beclin-1-F	AGGAGCTGCCGTTGTACTGTTCT	62	94
Beclin-1-R	TGCTGCACACAGTCCAGGAA		
Atg5-F	CCTGAAGATGGGGAAAGAAAGA	62	140
Atg5-R	TCTGTTGGTTGCGGGATG		
Atg12-F	TACGGAGGTCTCCCCAGAAA	60	177
Atg12-R	ATGGTTCGGGTTCGCTCTAC		
Atg3-F	CACGACTATGGTTGTTTGGCTATG	62	127
Atg3-R	GGTGGAAGGTGAGGGTGATTT		
LC3-F	AACGAAATTCCTGGTGCCTGA	60	90
LC3-R	AAGGCTTGGTTAGCATTGAGCTG		
P62-F	CAGGTGAACTCCAGTCTCTACA	60	102
P62-R	GGTACAATGCCGCTTCCTTC		
β-actin-F	TGCGGGACATCAAGGAGA	60	175
β-actin-R	AGGAAGGAGGGCGGAAGAG		
