Supplement Table S1. Grouping and Processing.

Groups	Treatment
CC group	control cells + control treatment
CT group	control cells + toxin treatment
KC group	knockout cells + control treatment
KT group	knockout cells+ toxin treatment
KNT group	knockout NC cells + toxin treatment
OC group	overexpressing cells + control treatment
OT group	overexpressing+ toxin treatment
ONT group	overexpressing NC cells + toxin treatment

Supplement Table S2. Primer sequence.

Gene ID	Login Number	Sequence (5'-3')	ProdSize
β-actin	XM_003124280.5	F: CTGCGGCATCCACGAAACT R: AGGGCCGTGATCTCCTTCTG	147
SIRT3	XM_005652976.3	F: CCAGCGGCATTCCAGACTTCAG R: CCCCAGGCTCAGTTGCTAA	150
LC3	NM_001170827.1	F: GCCTTCTTCCTGCTGGTGAACC R: GGGAGGCGTAGACCATGTAGAGG	115
P62	XM_003123639.4	F: CTGATGAAGGTGGCTGGCTGAC R: CAAGGGCGGTGGGTGTTTCG	101
PINK1	XM_021095478.1	F: TAGACGCTGGCAGGGCTTCC R: TCTTCGCCGCCTCCAGGTTC	125

Parkin	NM_001044603.2	F: GTGGTTCTGCGGTGGATTCTGAG R: ACTGCCTGTGGTTCTTTGGGAAG	102
BAX	XM_003127290.5	F: ATCGGCTGCTGGGCTGGATC R: ATGGTGAGCGAGGCGGTGAG	124
BCL-2	XM_021099593.1	F: TCAGGGAACAGGACGCTCAGAC R: CTTGGCAGGATAGCAGCACAGG	127
CASP3	NM_214131.1	F: GTGGGATTGAGACGGACAGTGG R: TTCGCCAGGAATAGTAACCAGGTG	114