Gene Symbol and Allele	Gene Description	Phenotype
lin-45(n2520)	Abnormal cell lineage. Encodes an ortholog of the vertebrate protein RAF (MAPKKK)	
mek-2(n1989)	Encodes a MAPKK or ERK Kinase	
ksr-1(ku68)	One of two <i>C. elegans</i> Kinase Suppressor of Ras paralogs	
mpk-1(ku1)	Encodes a MAPK an ERK ortholog functioning	susceptibility to pathogens
mek-1(ks54)	Encodes a MAPKK or ERK Kinase. The highest homology to mammalian MKK7	Hypersensitive to copper and cadmium ions, and to starvation
jkk-1(km2)	JNK Kinase. Encodes a member of the MAPKK superfamily	Abnormal locomotion phenotype.
mkk-4(ju91)	Encodes a MAPKK that is a member of the MKK4 family	
jnk-1(gk7)	Encodes a serine/threonine kinase that is the sole <i>C. elegans</i> member of the JNK subgroup of MAPK	Hypersensitive to cadmium ions
nsy-1(ag3)	Encodes a MAPKKK. Orthologous to the mammalian ASK family of protein kinases	susceptibility to pathogens
sek-1(ag1)	Encodes a MAPKK(SAPK/ERK kinase). <i>Sek-1</i> has highly similarity with mammalian SEK1/MKK4, MKK6 and MKK3. Functions in the p38 MAPK cascade that regulates innate immunity. Enhanced susceptibility to pathogens	susceptibility to pathogens
pmk-1(km25)	Encodes a MAPK, orthologous to human p38 MAPK. Sensitive to heavy metal and oxidative stress	Sensitive to heavy metal and oxidative stress
daf-2(e1370)	Encodes a receptor tyrosine kinase that is the <i>C. elegans</i> insulin/IGF receptor ortholog	Temperature sensitive dauer constitutive
age-1(hx546)	Ageing alteration.	Long life, normal fertility and stress tolerant
daf-16(mu86)	Ebnormal dauer formation. Encodes the sole <i>C. elegans</i> forkhead box O (FOXO) homologue.	Dauer defective. Short lived
mev-1(kn-1)	rtholog of the succinate dehydrogenase cytochrome b560 subunit, an integral membrane protein that is a subunit of mitochondrial respiratory chain complex II	Oxygen sensitive. Short life span
muls84 Sod-3	sod-3p::GFP	Green expression in head, tail and around vulva.

Table S1. Description of all mutants.