

SUPPLEMENTAL TABLES

Table S1. List of transcription factor candidates that bind MDT-15 and were tested in the RNAi screen, and screen results.

RNAi	Ref. for physical binding to MDT-15	Repeat 1		Repeat 2		Repeat 3		Verified using mounted images		Comments
		Control	tBOOH	Control	tBOOH	Control	tBOOH	Control	tBOOH	
L4440		-	+	-	+	-	+	-	+	Neg. control
<i>mdt-15</i>		-	-	-	-	-	-	-	-	Pos. control
<i>skn-1</i>	(Goh et al. 2014)	-	++	-	++	-	+	-	++	
<i>nhr-4</i>	(Reece-Hoyes et al. 2013)	-	+	-	+	-	+			
<i>nhr-8</i>	(Arda et al. 2010)	-	+	-	+	-	+			
<i>nhr-10</i>	(Arda et al. 2010)	-	+	-	+	-	+			
<i>nhr-12</i>	(Arda et al. 2010)	+	+	+	+	-	+			
<i>nhr-28</i>	(Arda et al. 2010)					-	+			
<i>nhr-49</i>	(Taubert et al. 2006)	-	-	-	-	-	-	-	-	No fluorescence
<i>nhr-64</i>	(Taubert et al. 2006)	-	+	-	+	-	+			
<i>nhr-69</i>	(Arda et al. 2010)	-	+	-	+	-	+			
<i>nhr-86</i>	(Arda et al. 2010)	-	-	-	+	-	+			
<i>nhr-97</i>	ST unpubl.	-	+	-	+	-	+			
<i>nhr-112</i>	(Arda et al. 2010)					-	+			
<i>nhr-114</i>	(Arda et al. 2010)					+	+	+	+	↑ nucl. signal in -tBOOH
<i>nhr-138</i>	(Reece-Hoyes et al. 2013)					-	+			
<i>nhr-273</i>	(Arda et al. 2010)					-	+			
<i>npax-2</i>	(Arda et al. 2010)	-	+	-	+	-	+			
<i>hlh-8</i>	(Arda et al. 2010)	-	-	-	+	-	+			
<i>ztf-2</i>	(Arda et al. 2010)	-	+	-	+	-	+			
<i>sbp-1</i>	(Yang et al. 2006)			-	+	-	+	-	+	

Synchronized L1 stage worms were transferred to RNAi plates, allowed to grow to the young adult stage, and scored for fluorescence (control condition). 10-15 transgenic worms (assessed by transgenic Roller marker) were then transferred to

NGM-lite plates containing 10 mM tBOOH, exposed for 3 hours, and scored for fluorescence (tBOOH condition). Fluorescence was assessed using a Leica M205 FA fluorescence stereo microscope, and scored manually as low (-), high (+), or very high (++). For some RNAi clones, images were acquired using mounted worms and an inverted microscope.

Table S2. List of transcription factor candidates that bind the *fmo-2* promoter (according to modENCODE ChIP-seq data) and were tested in the RNAi screen, and screen results.

RNAi	Control		10mM tBOOH (3 hrs)		Fasted (12 hrs)	
	Intestine	Hypodermis	Intestine	Hypodermis	Intestine	Hypodermis
<i>alr-1</i>	-	-	-	-	-	-
<i>mdl-1</i>	↑↑	-	-	↓	-	↓
<i>pqm-1</i>	--	-	-	-	-	-
<i>pha-4</i>	↑↑↑	--	---	--	-	-
<i>eor-1</i>	↓-	-	-	↓	-	-
<i>blmp-1</i>	↑--	↓--	↓--	↓--	---	---
<i>elt-3</i>	↑-	--	--	↓-	↓-	↓-

In each experiment, 30 or more animals per treatment group were assessed; arrows and dashes indicate whether GFP signals were significantly increased (↑), decreased (↓), or unchanged (-) by treatment with the indicated RNAi compared negative control (L4440). Chi-squared distribution tests were used to determine whether differences between negative control (L4440) treated and transcription factor RNAi groups were statistically significant, i.e. $p < 0.05$.