

Supplementary Material to “Multiple genes contribute to anhydrobiosis (tolerance to extreme desiccation) in the nematode *Panagrolaimus superbus*”

Table S2 - Nucleotide sequences of all dicer substrates.

code	target	Strand	Sequence (5'-3')
GFP	Green Fluorescent Protein (control)	sense	GCGUUCAAUUAGCAGACCAUUAUCAAC
		antisense	UGAUAAUGGUCUGCUAAUUGAACGCUU
si23	Pinin/SDK/memA/ protein conserved region containing protein	sense	GGUGCACGAGAUCCGCUAAUGUUUGGU
		antisense	CAAACAUUAGGCGAUCUCGUGCACCAU
si24	glutamate dehydrogenase	sense	ACUUCAAACUGUAUCUACUUAAUGAC
		antisense	CAUUAAGUAGAUACAGUUUGAAGUUC
si25	cathepsin L-like cysteine proteinase	sense	GGAUCUCUUGAAGGACAACAUAACGU
		antisense	GUUUAUGUUGCCUUAAGAGAUCGGG
si26	A - heat shock protein 70	sense	UUCGAUCAUUUUUACAUUUAAUUAUUU
		antisense	AUAUUAAAUGUAAAAAAUGAUCGAAUG
si27/28	B/C - Heat shock 70 kDa protein	sense	CUGCCAGGACUUGCUUCUUCUUGAUG
		antisense	UCAAGAAGAAGCAAGCUGGACGAAU
si29	Ras-related protein Rab-1A	sense	CUGGUGGCUGCUGCUAAAUAUCAUUU
		antisense	UUGAUAAUUUAGCAGCACCAGUUU
si30	Ras-related protein Rab-11B	sense	GGUGCCCUUCUUGUCUACGAUAUUGGU
		antisense	CAAUAUCGUAGACAAGAAGGGCACCAA
si31	cuticle collagen protein LON-3	sense	AGAUGGGCAAGGUGCUGAAGAUUUAC
		antisense	AAUAUCUUCAGCACCUUGCCCAUCUUU
si32	CBR-RPS-0 protein (40S ribosomal protein AS)	sense	UGGGCUGCUUCAUCUUGGGAUAAUACU
		antisense	UAUUAUCCCAAGAUGAAGCAGCCAAU
si33	Immunodominant antigen Ov33-3 / Pepsin inhibitor Dit33	sense	AACAACAAGUUAAGAAUUAUUUGGUG
		antisense	CCAAAUAUUUUUUAACUUGUUGUGA
si34	Ubiquitin-conjugating enzyme H1	sense	GUUGGGCUGCUUCUCUUUCUUCUGUA
		antisense	CGAAGAGAAAGAGAAGCAGCCCAACGA
si35	histone H2B 2	sense	UGCUGCUGUUGAUGAUGUUGUAAAUGU
		antisense	AUUUACAACAUCAUCAACAGCAGCAA
si36	cytochrome P450 like_TBP	sense	UCAGAGCACUGGGCAGAAUACACAAU
		antisense	UUGUGAUUUCUGCCAGUGCUCUGAAU
si37	CRE-RPL-9 protein	sense	CGUCAUGCUUCAUGGAUUUAAACCCGU
		antisense	GGGUUAAAUCUUAAGAAGCAUGACGAA
si38	ribosomal protein L44	sense	ACAGGGCUCAUCAUGGUUAAUGUACUU
		antisense	GUACAUUAACCAUGAUGAGCCUGUUU
si39	A - euk. Transl. Elong. factor 1A	sense	UCUGGAUUCAAUGGCGAUAACACUCUU
		antisense	GCAUGUUUUCGCAUUGAUAUCAGAGA
si40	B - euk. Transl. Elong. factor 1A	sense	UAUUGCUCUCUGGAAAUUUGAAACUGC
		antisense	AGUUUCAAAUUUCCAGAGAGCAAUAUC
si41	Elongation factor 1 beta	sense	CUGCUGGAGGUGAUGAUGACUUUGAUU
		antisense	UCAAGUCAUCAUCACCUCAGCAGCU
si42	DNA repair protein RAD51 homolog 1 (4e-110)	sense	ACUGGGAGCUUGACUGAAAUAUUUGGU
		antisense	CAAAUAUUUCAGUCAAGCUCUCCAGUUU
si43	Pv-hsp60	sense	AUGGGUGGUGGCAUGUUCUAAAUGUG
		antisense	CAUUUUAGAACAUGCCACCACCCAUAAC
si44	Pv-p23	sense	AUUGGUUGAAAAGUUUAGUUUAAAGAU
		antisense	CUUAAACUAAACUUUUUCAACCAAUUU
si45	putative heat shock protein 90	sense	UUGUCCUCUCUUGCUGAUUAUGUUUGG
		antisense	AAACAUAUUCAGCAAGAGAGGACAACU
si46	60S ribosomal protein L4	sense	UGGUCGUGCCGUAGCUCGUAUUCUCG
		antisense	AGGAAUACGAGCUACGGCACGACCAGU
si47	40S ribosomal protein S8	sense	AAGGGUGCUAAGCUUAAUGAAGAAGAA
		antisense	CUUCUUCAUUAAGCUUAGCACCCUUCU
si48	60S ribosomal protein L7a	sense	AUCGUCCAGAAACCAAAACAACAAAAU
		antisense	UUUUGUUGUUUGGUUCUGGACGAUUA
si76	oxidoreductase, aldo/keto reductase family protein	sense	AACAGAUUACAUGAUUUUAUUUUAAU
		antisense	UAAAUAUAAAUCAUGUAAUCUGUUCG
si77		sense	UCCGCUGCUCUGUCUCUUUCUCUCCA

code	target	Strand	Sequence (5'-3')
	zinc finger domain containing protein (AN1-like Zinc finger)	antisense	GAAGAGAAAGAGACAGAGCAGCGGAUG
si78	channel protein, MIP family; aquaporin	sense	CUGCUGUCACCCUUGCCUCCUUGUUC
		antisense	ACAAGGAAGGCAAGGGUGACAGCAGGA
si79	autophagy-related protein 2-like protein A	sense	GUACUUGCCUUUUUUUUUGUAAAAUUG
		antisense	AAAUACAAAACAAUAAGGCAAGUACAA
si80	peptidyl-prolyl cis-trans isomerase domain containing protein; cyclophilin-type peptidyl-prolyl cis-trans isomerase-15	sense	AGGCUCCAGUCGAAUAAGUGCUUUACC
		antisense	UAAAGCACUUAUUCGACUGGAGCCUUU
si81	chaperonin Cpn60 TCP-1 domain containing protein	sense	CUUCCCGGUGGUACUGUUAAGAUUCU
		antisense	AAUCUUUAACAGUACCACCGGGAAGCU
si82	Derlin-2	sense	UUGCUUGCGGUCAUUUUGUAUUUUUCU
		antisense	AAAUAUACAAAUGACCGCAAGCAAUU
si83	DJ-1	sense	GACCCUUGCGAGACGAACUACAGCGAA
		antisense	CGCUGUAGUUCGUCUCGCAAGGGCCA
si84	Ezrin Radixin Moesin family member (erm-1)	sense	CAAGCCCGUGUCCAAGAUGGUCUUAGU
		antisense	UAAGACCAUCUUGGACACGGGCUUGAU
si85	HSP70 cochaperone BAG1	sense	ACAUGACUGCUGAAAUGAUUACACGAU
		antisense	CGUGUAAUCAUUUCAGCAGUCAUGUCG
si86	LC3, GABARAP and GATE-16 family member (Igg-1)	sense	UGGACUCAACUCAGCAAAACGAUAACU
		antisense	UUAUCGUUUUGCUGAGUUGAGUCCA
si87	ATP-dependent protease La; lon protease homolog, mitochondrial precursor	sense	UUGCAAUGACUGGUGAAAUUUCUUUAA
		antisense	AAAGAAAUUUCACCAGUCAUUGCAACA
si88	isocitrate dehydrogenase, NADP-dependent	sense	GGCCGGGGCAUCUGGUUAUGAACAUUCG
		antisense	GAUGUUAUACCAAGAUCCCGGCCCGU
si89	prefoldin subunit 2, PFD-2	sense	CUACCGACUUAGUGAUUUCUUAAGUAGA
		antisense	UACUAAGAUUACACUUAAGUCGGUAGAA
si90	Probable E3 ubiquitin-protein ligase	sense	GUGUCAGAGAACGGUAAAUCAUGAAA
		antisense	UCAUUGAUUUACCGUUCUCUGACACCA
si91	Proteasome subunit alpha type 4	sense	ACGCGGCACGAUAAUAAGACUGUCAUC
		antisense	UGACAGUCUUUUUAUCGUGCCGCGUAA
si92	CRE-PBS-1 protein; proteasome domain containing protein	sense	UCGGGAUCAAAUGAAUGCAAGUGUUAU
		antisense	AACACUUGCAUUCAUUUUGAUCCCGAUA
si93	Protein disulfide isomerase	sense	AUAGUCGCAAAUAAAAUACAGUACCA
		antisense	GUACUGUAUUUUAAUUUGCGCAGUAUUU
si94	RIC1 Putative stress responsive protein	sense	UGAGUAUUGUAUUAAUGUUUAAAUA
		antisense	UAUUUAAACAUUAAUACAAUACUCAA
si95	Small heat shock protein alpha crystallin family	sense	UUUCUUCUCAUCGCAUAAUAAUUAUUUU
		antisense	AAAUAUUAUUGCGAUGAGAAGAAAGU
si96	tetratricopeptide TPR-1 domain containing protein; hsp70-interacting protein, putative	sense	UGGCGGGUGGAAACAAUUCUGAAACAA
		antisense	GUUUCAGAAUUGUUUCCACCCGCAUU
si97	THaumatIN family member	sense	GGGUCGAACAGGGUGUGAUGACUCUU
		antisense	GAGUCAUCACACCCUGUUCGAGCCCAA
si98	Ubiquitin conjugating enzyme (E2) family member (ubc-3)	sense	AUGGAUGCUGAUGAAGAUUAAUUAUGAU
		antisense	CAUAAUAAUCUUAUCAGCAUCCAUA
si99	ubiquitin	sense	UGGCCGUACACUCUCUGAUUUAACA
		antisense	GUUAUAAUCAGAGAGUGUACGGCCAUC
si100	ubiquitin-activating enzyme E1	sense	AUCUUCGUGCUGCAAAUUAUGAUUCA
		antisense	AUAUCAUAAUUUGCAGCACGAAGAUUU