Supplementary Table S1. Ranked list of candidate targets.

	TIGR			
Score	<i>B.malayi</i> pub locus	B. malayi gene description	<i>C. elegans</i> ortholog	<i>C. elegans</i> ortholog RNAi phenotypes Lva, Sck, Emb, Lvl, Unc, Ste,
275	Bm1_35120	PAN domain containing protein	noah-2	WT Bmd, Lva, Muv, Emb, Lvl, Unc,
248	Bm1_36170	PAN domain containing protein	noah-1	WT
248	Bm1_45135	Conserved hypothetical protein, putative	pqn-83	Let, Unc, Ste
179	Bm1_35215	chitin synthase 1, chs-1	chs-1	Emb, Ste, Sterility/Impaired Fertility in F0, Gro, WT
172	Bm1_36850	hypothetical protein RNA dependent RNA polymerase	C01B10.11	Dpy, Unc
172	Bm1_22725	family protein	ego-1	Cyk, Emb, WT, Gro
157	Bm1_15245	RH17657p-related	C25H3.9	General Pace of Development abnormal, Emb
157	Bm1_43465	Temporarily assigned gene name protein 40, putative	nrf-6	Dpy, Bmd, Slu, Emb, WT Prz, Lvl, Unc, WT, Larval Lethal-
154	Bm1_38120	hypothetical protein	W04G3.8	Early (L1/L2), Gro
151 143	Bm1_35395 Bm1_36765	Acyltransferase family protein SD01790p-related	T14D7.2 Y41E3.1	Egl, Pvl, Unc, WT Sck, Ste, WT
141	Bm1_25640	hypothetical protein	ZC247.1	Sck, Ste, Sma, WT, Stp, Gro Bmd, Prz, Lva, Larval Arrest-
140	Bm1_35480	hypothetical protein	mlt-8	Early (L1/L2), Lvl, Unc, WT
133	Bm1 40015	concerved hypothetical protein	K07A12.7	
125	Bm1_49915 Bm1_45670	conserved hypothetical protein WH2 motif family protein	C34E10.11	Emb, WT Emb, WT Prz, Larval Lethal-Late (L3/L4),
123	Bm1_37495	conserved hypothetical protein	mlt-9	Unclassified, Mlt, Unc, Lva, Sck, Gro, WT
119	Bm1_46940	hypothetical protein	C52A11.2	Dpy, Lva, Egl, Emb, Unc, Rup, WT
116		hypothetical protein LBP / BPI / CETP family, C-terminal	W04G3.2	Bmd, Lva, Lvl, Unc, WT
115	Bm1_32730	domain containing protein hypothetical protein (contains similarity to Aedes aegypti Putative mitochondrial NADH-ubiquinone oxidoreductase (MitochondrialsNADH:ubiquinone	C06G1.1	Lon, Unc, WT
114	Bm1_42470	oxidoreductase B14.7 subunit, putative).; TR:Q1HQR1)	B0491.5	Bmd, Lva, Emb, Unclassified, Lvl, WT

112 110 108 107	Bm1_55705 Bm1_38105 Bm1_38425 Bm1_43740	Conserved hypothetical protein, putative hypothetical protein 3'-5' exonuclease family protein conserved hypothetical protein	B0205.11 W04G3.3 C10G6.1 T14D7.2	Emb, WT Unc, WT Mlt, Unc, Rup, WT Egl, Pvl, Unc, WT
107 106 105 105 103	Bm1_19285 Bm1_51995 Bm1_38160 Bm1_02135 Bm1_03880	Innexin family protein LBP / BPI / CETP family, C-terminal domain containing protein Fatty acid desaturase family protein ribosomal protein L9 domain containing protein hypothetical protein	inx-4 F44A2.3 fat-2 B0205.11 Y71G12B.13	Unclassified, WT Spindle Elongation/Integrity abnormal, Emb, WT Emb, Unclassified, WT Emb, WT Emb, WT
100	Bm1_35075	Innexin inx-3, putative	inx-3	Lva, Unc, Gro, WT Osmotic Integrity defective, Ooc,
99 98	Bm1_31660 Bm1_02195	hypothetical protein hypothetical protein	C55C3.5 mlt-8	Emb Bmd, Prz, Lva, Larval Arrest- Early (L1/L2), Lvl, Unc, WT
98 97 96	Bm1_09270 Bm1_50630 Bm1_08695	Skp1 related (ubiquitin ligase complex component) protein 18-like hypothetical protein trehalose-6-phosphate synthase- related	skr-18 T19B10.2 gob-1	Pvl, Unc, Rup, Stp, Gro, WT Prz, Rup, Unc, WT, Gro Slu, Larval Arrest-Late (L3/L4), Gro, WT
96	Bm1_39265	GH05862p-related amine oxidase, flavin-containing-	F42G8.10	Lva, Emb, Unclassified, WT
96 91	Bm1_39265 Bm1_34455	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein	F42G8.10 H04M03.4	Lva, Emb, Unclassified, WT Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT
	_	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase)		Prz, Dpy, Lvl, Unclassified, Sma,
91	Bm1_34455	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion	H04M03.4	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro
91 88 84	Bm1_34455 Bm1_08915 Bm1_16245	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related	H04M03.4 <i>igcm-3</i> ZK809.3	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval
91 88	Bm1_34455 Bm1_08915	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein	H04M03.4 igcm-3	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro
91 88 84 82	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein Innexin family protein	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro
91 88 84 82 82	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575 Bm1_39790	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2 W01C8.5	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro Unclassified, Gro, WT
91 88 84 82 82 81	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575 Bm1_39790 Bm1_33440	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein Innexin family protein Gex interacting protein protein 4,	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2 W01C8.5 <i>inx-13</i>	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro Unclassified, Gro, WT Unc, Rup, Stp, Gro, WT Let, Sck, Emb, Pvl, Ste, WT Sck, Emb, Ste, WT
91 88 84 82 82 81 81	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575 Bm1_39790 Bm1_33440 Bm1_41495	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein Innexin family protein Gex interacting protein protein 4, isoform c-related hypothetical protein EB module family protein	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2 W01C8.5 <i>inx-13</i> <i>gei-4</i>	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro Unclassified, Gro, WT Unc, Rup, Stp, Gro, WT Let, Sck, Emb, Pvl, Ste, WT Sck, Emb, Ste, WT Prz, Lvl, Unclassified, Unc, WT, Gro
91 88 84 82 82 81 81 79	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575 Bm1_39790 Bm1_33440 Bm1_41495 Bm1_55030	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein Innexin family protein Gex interacting protein protein 4, isoform c-related hypothetical protein EB module family protein Apoptosis regulator proteins, Bcl-2 family protein	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2 W01C8.5 <i>inx-13</i> <i>gei-4</i> Y67H2A.5	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro Unclassified, Gro, WT Unc, Rup, Stp, Gro, WT Let, Sck, Emb, Pvl, Ste, WT Sck, Emb, Ste, WT Prz, Lvl, Unclassified, Unc, WT,
91 88 84 82 81 81 79 79	Bm1_34455 Bm1_08915 Bm1_16245 Bm1_33575 Bm1_39790 Bm1_33440 Bm1_41495 Bm1_55030 Bm1_07680	amine oxidase, flavin-containing- related (putative UDP galactopyranomutase) hypothetical protein (immunoGlobulin-like Cell adhesion Molecule family) symbol-related hypothetical protein conserved hypothetical protein Innexin family protein Gex interacting protein protein 4, isoform c-related hypothetical protein EB module family protein Apoptosis regulator proteins, Bcl-2	H04M03.4 <i>igcm-3</i> ZK809.3 ZK899.2 W01C8.5 <i>inx-13</i> <i>gei-4</i> Y67H2A.5 F56B3.2	Prz, Dpy, Lvl, Unclassified, Sma, Unc, WT Unclassified, WT Lva, Emb, Unclassified, WT, Gro Lva, Emb, Lvl, WT, Larval Lethal-Early (L1/L2), Gro Unclassified, Gro, WT Unc, Rup, Stp, Gro, WT Let, Sck, Emb, Pvl, Ste, WT Sck, Emb, Ste, WT Prz, Lvl, Unclassified, Unc, WT, Gro Integrity of Membranous

75	Bm1_49335	RUN domain containing protein	unc-14	Unc, WT
74	Bm1_05470	hypothetical protein	F37C4.4	Emb, WT, Stp
74	Bm1_53115	hypothetical protein	C41G7.3	Him, General Pace of Development abnormal, WT
74	Bm1_41565	hAT family dimerisation domain containing protein	F42H10.5	Emb, WT Clr, Emb, Unc, Ste, Lva, Sck, Adl, WT, Developmental Delay,
73	Bm1_56145	conserved hypothetical protein conserved hypothetical protein	mdt-15	Gro Prz, Dpy, Lvl, Unclassified, Sma,
72	Bm1_51960	(putative UDP galactopyranomutase)	H04M03.4	Unc, WT
72		conserved hypothetical protein	C25H3.6	Bmd, Lva, Emb, Unc, WT
71		Patched family protein	ptr-23	Unc, WT
71	_ Bm1_24555	hypothetical protein	F28F8.5	Slu, Emb, Pvl, Unc, Rup, Gro, Stp, WT Lva, General Pace of Development abnormal, Emb,
71	Bm1_16555	hypothetical protein	atp-5	Ste, Gro
70	Bm1_35415	50S ribosomal protein L20related	Y48C3A.10	Emb, Unclassified, WT
69	Bm1_52630	Lipase family protein	T08B1.4	Aldicarb resistant, WT
68	Bm1_21610	PDZ domain containing protein	T21G5.4	Lva, Pvl, WT, Stp
68	Bm1 45560	hypothetical protein	C09F5.1	Pvl, Ste, WT
00	BIII1_43300		0091 3.1	
67	Bm1_14680	PDZ domain containing protein	T21G5.4	Lva, Pvl, WT, Stp General Pace of Development
67	Bm1_14330	Mitochondrial ATP synthase coupling factor 6 family protein	atp-4	abnormal, Emb, Lvl, Ste, Adl, Gro
67	Bm1_47700	Mitochondrial import inner membrane translocase subunit Tim17 family protein	F15D3.7	Emb, Pvl, Severe Pleiotropic Defects, Ste Osmotic Integrity defective, Emb, Sterile F0/Fertility
67	Bm1_07635	GM16138p-related	F49C12.12	Problems, Lvl
01	201000	NADH-ubiquinone oxidoreductase	1 10012.12	
67	Bm1_53755	subunit B14.5brelated	Y71H2AM.4	Lva, Emb, WT, Gro
67	Bm1_45175	conserved hypothetical protein	ZC262.8	Emb, WT Egl, Pvl, Unc, Sma, Sck, Sterile
66	Bm1_37530	conserved hypothetical protein	lin-14	F1, Stp, WT Lva, Clr, Lvl, Larval Arrest-Late
65	Bm1_33125	conserved hypothetical protein	ZK1193.5	(L3/L4), Gro
65	Bm1_21620	Profilin family protein	pfn-1	Cyk, Emb, Unc, Stp
		Nematode cuticle collagen N-	r	- j, - , - , -
65	Bm1_18695	terminal domain containing protein	dpy-3	Dpy, Unc
64	Bm1_38065	Clc-like	Y38F2AL.1	Dpy, Egl, Unc, WT
2.				r, , , = <u>3</u> ., =,
64	Bm1_25750	Lipase family protein	F58G1.5	Him, WT
64	Bm1_51095	Innexin inx-10, putative	inx-10	Aldicarb resistant, WT
04	DIII1_01090		111A- I V	

64 64	Bm1_51050 Bm1 44775	hypothetical protein hypothetical protein	<i>ril-1</i> C23G10.8	Lva, General Pace of Development abnormal, Emb, Gro Emb, Pvl, Ste, WT, Gro
	_			
63	Bm1_32310	Innexin family protein Nematode cuticle collagen N-	inx-3	Lva, Unc, Gro, WT
63	Bm1_13015	terminal domain containing protein	dpy-5	Dpy, Rup
63	Bm1_44070	Zinc finger, C2H2 type family protein	die-1	Bmd, Muv, Emb, Lvl, WT, Gro
63	Bm1_46095	hypothetical protein	F57B10.14	Osmotic Integrity defective, Emb, WT Lva, Integrity of Membranous
63	Bm1_08035	Hypothetical 36.0 kDa protein C45G9.5 in chromosome IIIrelated	C45G9.5	Organelles defective, Emb, Larval Arrest-Early (L1/L2), Gro Lva, Emb, Larval Arrest-Early (L1/L2), Unclassified, Sma, WT,
62	Bm1_56805	50S ribosomal protein L10related	K01C8.6	Gro
62 62	Bm1_48395 Bm1_53205	hypothetical protein hypothetical protein	Y87G2A.1 T19A5.3	Unclassified, Pvl, Rup, Unc, Stp, Gro, WT Lvl, WT
61	Bm1_41590	Mitochondrial import inner membrane translocase subunit Tim17 family protein	F15D3.7	Emb, Pvl, Severe Pleiotropic Defects, Ste Osmotic Integrity defective,
61	Bm1_21255	Chitin binding Peritrophin-A domain containing protein	H02I12.1	Emb, Sterile F0/Fertility Problems, Ste
60	Bm1_05895	Gex interacting protein protein 16, isoform d-related	gei-16	Lva, Emb, Lvl, Gro, WT Clr, Emb, Pvl, Unc, Rup, WT,
60	Bm1_42370	hypothetical protein	T21B10.3	Gro
59	Bm1_55805	hypothetical protein	K11B4.1	Lva, Emb, Unclassified, WT
58 58	Bm1_03495 Bm1_10140	Kunitz/Bovine pancreatic trypsin inhibitor domain containing protein Zinc finger, C2H2 type family protein	<i>bli-5</i> ZK867.1	Bli, Lvl, Unc, Adl, WT Let, Egl, Unc, WT Lva, General Pace of
58 57	Bm1_21225 Bm1_33565	hypothetical protein conserved hypothetical protein	F36A2.7 <i>zwl-1</i>	Development abnormal, Sle, Emb, Unclassified, Gro Emb, WT
57	Bm1_55375	carbamoyl-phosphate synthase, large subunit, putative	pyr-1	Emb, Mlt, Lvl, Unc, WT, Gro
57 57	Bm1_56035 Bm1_37760	hypothetical protein Zinc finger, C2H2 type family protein Transmembrane amino acid	pry-1 mep-1	Mig, WT Pvl, Lvl, Ste, WT, Stp, Gro
55	Bm1_43170	transporter protein	Y32F6A.4	Unclassified, WT
55	Bm1_37230	conserved hypothetical protein	Y11D7A.9	Dpy, Egl, Clr, Lvl, Unclassified, Unc, Bmd, Lva, WT, Gro
54	Bm1_09225	HIT zinc finger family protein	tag-143	WT, Developmental Delay

54	Des 4, 00045	spliced leader 175 kDa protein,		
54	Bm1_36315	putative	T13F2.7	Lva, Emb, Unclassified, WT, Gro
				Lva, Clr, Lvl, Larval Arrest-Late
53	Bm1_08450	hypothetical protein	ZK1193.5	(L3/L4), Gro
53	Bm1_41500	conserved hypothetical protein	gei-4	Let, Sck, Emb, Pvl, Ste, WT
				Spindle Elongation/Integrity
52	Bm1_42535	Tudor domain containing protein	ekl-1	abnormal, Emb, Abs, WT
52	Bm1_51010	hypothetical protein	K03B4.1	Lva, Emb, WT, Gro
		collagen col-34 - Caenorhabditis		
52	Bm1_36555	elegans, putative	col-34	Dpy, Bmd, Unc, WT
51	Bm1_33065	hypothetical protein	F46C8.7	Unclassified, WT
51	Bm1_29610	hypothetical protein	Y49G5B.1	Emb, WT
51	Bm1_54230	zgc:101038 protein-related	Y69A2AR.21	Emb, WT
51	Bm1_39200	hypothetical protein	pes-8	Prz, Egl, Ste, Adl, WT, Stp
51	Bm1_27205	hypothetical protein	Y47D3B.1	Let, Lva, Egl, Unclassified, WT
51	Bm1_05160	Troponin Trelated	tnt-2	Slu, Ste, Unc, Stp, Gro, WT
50	Bm1_55745	sulfakinin receptor protein, putative	T23B3.4	Emb, Unclassified, WT
50	Bm1_39610	hypothetical protein	F40F11.2	Sck, Emb, WT
		Hypothetical 30.1 kDa protein		Sle, Emb, Ste, Lva, Sck, Gro,
49	Bm1_11590	ZC434.4 in chromosome Irelated	ZC434.4	Stp, WT
49	Bm1_22470	conserved hypothetical protein	W02B8.6	Emb, WT
				Cortical Dynamics abnormal,
49	Bm1_52795	hypothetical protein	K09H11.3	Emb, Ste
49	Bm1_23555	UcrQ family protein	F45H10.2	Clr, WT, Stp, Gro
		Cuticle collagen dpy-2 precursor,		
49	Bm1_47145	putative	dpy-2	Dpy, Bmd, WT
40	5 4 45000			Lva, Emb, Larval Lethal-Early
49	Bm1_45220	CG7038-PA-related	W04B5.4	(L1/L2), Gro, WT
48	Bm1_32990	Apical junction molecule protein 1, isoform d-related	ajm-1	Emb, Unc, Gro, WT
	_		-	
48	Bm1_08735	hypothetical protein	B0035.15	Unc, Gro, WT
				Sck, Emb, Lvl, Passage Through
48	Bm1_52640	hypothetical protein	Y57E12AL.6	Meiosis defective, Ste
48	Bm1_16540	hypothetical protein	Y54G9A.7	Emb, WT
48	Pm1 20120	PDZ domain containing protoin	C25G4.6	Lva Byl Sta WT Sta
40 48	Bm1_20120 Bm1_40975	PDZ domain containing protein hypothetical protein	Y23H5A.3	Lva, Pvl, Ste, WT, Stp Led, Slu, Emb, WT
40	BIII1_40975	Zn-finger in Ran binding protein and	123113A.3	Pronuclear/Nuclear Appearance
47	Bm1_41700	others containing protein	npp-7	abnormal, Pna, Emb
47	Bm1_12550	hypothetical protein	csn-1	Cyk, Sck, Emb, WT, Stp
47	Bm1_16780	hypothetical protein	C44C1.1	Lvl, Sma, Unc, Gro, WT
46		hypothetical protein	M05B5.2	Unclassified, Lon, Unc, Gro, WT
46		Cuticle collagen 14, putative	col-14	PvI, WT
	—	e .	chs-2	Bmd, Emb, Unc, Ste, WT, Gro
46	Bm1_01990	chitin synthase 2 (chs-2) fragment	0115-2	DINU, EIND, ONC, SIE, WT, GIU
46 45	Bm1_01990 Bm1_25060	Nematode cuticle collagen N- terminal domain containing protein	col-180	Bmd, Unc, Larval Lethal-Early (L1/L2), WT, Gro

45	Bm1_51260	Innexin family protein Chain A, Structure Of A Brca2-Dss1	inx-13	Unc, Rup, Stp, Gro, WT
45	Bm1_46165	Complex., putative	Y119D3B.15	Sck, Ste, WT
44	Bm1_17930	chitin synthase 2 (chs-2) fragment	chs-2	Bmd, Emb, Unc, Ste, WT, Gro
44		Calponin homolog OV9Mrelated	C53C9.2	Gro, WT
43	Bm1_25645	hypothetical protein	ZC247.1	Sck, Ste, Sma, WT, Stp, Gro
-			-	Emb, Sterile F0/Fertility
42	Bm1_08745	hypothetical protein	C44B12.5	Problems, Ste, WT, Stp
42	Bm1_09360	conserved hypothetical protein	gei-16	Lva, Emb, Lvl, Gro, WT Him, General Pace of
42	Bm1_36270	TspO/MBR family protein Dumpy : shorter than wild-type	C41G7.3	Development abnormal, WT
42	Bm1_43045	protein 10, isoform b, putative	dpy-10	Dpy, Pch, Slu, WT
				Dpy, Emb, Lvl, Unclassified,
		collagen col-34 - Caenorhabditis		Unc, Bmd, Lva, WT, Larval
42	Bm1_34840	elegans, putative	col-108	Lethal-Early (L1/L2)
42	Bm1_23570	conserved hypothetical protein	K10G9.2	Prz, Pvl, Unc, Adl, Gro, WT
				Osmotic Integrity defective, Sck,
				Sterile F0/Fertility Problems, LvI,
42	Bm1_36575	conserved hypothetical protein	Y55H10A.1	Ste
41	Bm1_26170	hypothetical protein	Y47D3B.1	Let, Lva, Egl, Unclassified, WT
41	Bm1_28210	hypothetical protein	C44C1.1	Lvl, Sma, Unc, Gro, WT
41	Bm1_37610	Destabilase family protein	C55F2.2	Ste, WT
•••				Bmd, Lva, General Pace of
		ATP synthase f chain,		Development abnormal, Emb,
41	Bm1_23080	mitochondrialrelated	R53.4	Unclassified, Pvl, Ste
41	Bm1_42700	hypothetical protein	D1043.1	Bmd, Lva, Clr, Emb, Unc, WT
41	Bm1_28670	hypothetical protein	ZK1236.5	Clr, Gro, WT
		ATP synthase e chain,		
41	Bm1_24580	mitochondrialrelated	R04F11.2	Lva, Emb, Unclassified, WT, Gro Spindle Assembly abnormal,
40	Bm1_12855	hypothetical protein	sas-5	Emb
40	Bm1_22670	conserved hypothetical protein	F15B9.5	Unclassified, WT
39	Bm1_50710	hypothetical protein	Y32G9B.1	Ste, WT
39	Bm1_18000	Zinc finger, C2H2 type family protein	F10B5.3	Unclassified, WT, Stp
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39	Bm1_51520	hypothetical protein	Y59A8B.20	Lon, WT
39	Bm1_24165	ToIA proteinrelated (similar to sut- 1, involved in trans-splicing)	T13B5.8	Emb, WT
39	DIII1_24103	r, involved in trans-splicing)	11305.0	Bmd, Emb, Unclassified, Pvl,
38	Bm1_27515	hypothetical protein	Y65B4BR.8	Unc, WT
38	Bm1 08545	Mediator protein 4-related	mdt-4	Egl, Pch, Emb, Rup, WT
				Dpy, Slu, Emb, Severe
				Pleiotropic Defects, Ste, Lva,
38	Bm1_02565	40S ribosomal protein S12related	rps-12	Sck, WT
		NADH-ubiquinone oxidoreductase		Lva, General Pace of
20	Dm1 04000	AGGG subunit homolog,		Development abnormal, Emb,
38	Bm1_04880	mitochondrialprecursorrelated	F44G4.2	Unclassified
20	Dm1 E0140	P40 related		
38	Bm1_52140	P40-related	Y69E1A.2	Emb, WT

				Ooc, Dpy, Egl, Mig, Emb,
38	Bm1_00490	CEH-25 homeobox protein-related	unc-62	Unclassified, Pvl, Unc, WT
38		hypothetical protein	C16B8.4	Emb, WT
38	Bm1_50825	hypothetical protein	W06A7.2	Unc, WT
50	BIII1_30023	NADH-dependent xylose reductase	W00A7.2	
38	Bm1_37860	related	F53F1.2	Prz, Lvl, Unc, WT, Gro
37	Bm1_23385	conserved hypothetical protein	C01B7.1	Lva, Emb, WT, Gro
37	Bm1_37570	predicted protein 2,3-bisphosphoglycerate-	rig-1	Sck, Emb, WT, Stp
		independent phosphoglycerate		Egl, Age, Emb, Lvl, Unc, Bmd,
37	Bm1_04665	mutase, putative	F57B10.3	Gro, WT
37	Bm1_18340	LIN-7, putative	lin-7	Clr, WT, Gro
	_			Unclassified, Larval Arrest-Late
37	Bm1_54115	RH01479p-related	Y95D11A.1	(L3/L4), WT, Stp, Gro
37	Bm1_54490	hypothetical protein	F42G8.5	Unclassified, WT
37	Bm1 00215	conserved hypothetical protein	Y75B8A.14	Emb, WT
57	Biii1_00210		170007.14	Clr, Emb, Lvl, Lva, Sck, Larval
				Arrest-Early (L1/L2), Stp, Gro,
37	Bm1_27330	conserved hypothetical protein	B0432.3	WT
				Clr, Emb, Lvl, Lva, Sck, Larval Arrest-Early (L1/L2), Stp, Gro,
37	Bm1_27330	conserved hypothetical protein	B0432.3	WT
	—			
37	Bm1_15680	hypothetical protein	M176.3	Emb, Sterile F1, WT
27	Dm1 27290	hypothetical protein	0.40 1	Emb, Pvl, Unc, Rup, Bmd, Led,
37 27	Bm1_27280	hypothetical protein	sys-1 tnt-2	Lva, WT, Gro, Stp Slu, Ste, Unc, Stp, Gro, WT
37	Bm1_55000	Troponin T, putative	<i>un-2</i>	
37	Bm1_43955	hypothetical protein	rod-1	Sck, Emb, WT
36	Bm1_08225	conserved hypothetical protein	T08A11.2	Emb, Pvl, Unc, Ste, Adl, WT
				Est Esch Dut Due Use Starile
36	Bm1_13550	conserved hypothetical protein	M04F3.1	Egl, Emb, Pvl, Rup, Unc, Sterile F1, WT, Stp
50	Biii1_10000	Hypothetical 36.5 kDa protein	100-11 0.1	1 1, W1, Stp
36	Bm1_43515	C56G2.3 in chromosome IIIrelated	C56G2.3	Stp, Gro, WT
	—			Lva, General Pace of
				Development abnormal, Emb,
36	Bm1_25440	hypothetical protein	T09B4.9	Ste, Etv, Gro
36	Bm1_19985	cuticle collagen 2 precursor, putative	col-97	Dpy, Bmd, Unc, WT
				,,,,,
35	Bm1_36335	conserved hypothetical protein	F49C12.11	Dpy, Lva, Lvl, Unc, WT
		Putative glutamate synthase,		
35	Bm1_40905	putative	W07E11.1	Lva, Emb, Gro, WT
35	Bm1_50900	Conserved hypothetical protein, putative	T21G5.4	Lva, Pvl, WT, Stp
-	_	DNA-(Apurinic or apyrimidinic site)	-	· · · T
34	Bm1_22525	lyase-related	apn-1	Emb, WT

34 34 34	Bm1_19065 Bm1_29140 Bm1_17810	conserved hypothetical protein hypothetical protein vacuolar ATP synthase subunit H, putative	pqn-22 W03F11.3 vha-17	Emb, WT Emb, WT Osmotic Integrity defective, Lva, Sck, Emb, Lvl, Ste
34 34	Bm1_56515 Bm1_09670	Nematode cuticle collagen N- terminal domain containing protein NADH-ubiquinone oxidoreductase B22 subunitrelated	<i>col-84</i> C16A3.5	Sister Chromatid Separation abnormal (Cross-eyed), Emb, Unclassified, WT Lva, Emb, Unclassified, WT, Larval Lethal-Early (L1/L2), Gro
33	Bm1_46400	Nematode cuticle collagen N- terminal domain containing protein	rol-6	Dpy, Egl, WT
33	Bm1_55790	hypothetical protein	D2030.3	Lva, Larval Arrest-Early (L1/L2), Unclassified, WT, Gro
33	Bm1_13030	conserved hypothetical protein	icl-1	Lva, Emb, Ste, Unc, WT, Gro Dpy, Larval Lethal-Late (L3/L4),
32 32 32	Bm1_10505 Bm1_48195 Bm1_31780	cuticle collagen 34, putative Innexin family protein Clc-4 protein., putative Mitochondrial ribosomal protein L51 /	col-125 inx-3 K10D6.2	Lvl, Unclassified, Unc, Bmd, WT, Larval Lethal-Early (L1/L2) Lva, Unc, Gro, WT Emb, WT
32	Bm1_49770	S25 / CI-B8 domain containing protein	C25A1.13	Emb, WT
32	Bm1_00720	conserved hypothetical protein	C44B9.2	Gro, WT
31	Bm1_12400	hypothetical protein ribosomal protein L32 containing	F10E7.6	Clr, Sck, Larval Arrest-Early (L1/L2), WT, Gro Lva, Emb, Unclassified, Larval
31	Bm1_23180	protein	C30C11.1	Lethal-Early (L1/L2), WT, Gro
31	Bm1_09610	Troponin T, putative	tnt-2	Slu, Ste, Unc, Stp, Gro, WT Sister Chromatid Separation abnormal (Cross-eyed), Emb,
31	Bm1_16685	hypothetical protein	hcp-4	Ste, Mul
31	Bm1_52255	TB2/DP1, HVA22 family protein	C36H8.1	Slu, WT
31	Bm1_07780	immunogenic protein 3, putative	ZK856.7	Developmental Delay, WT
31	Bm1_45405	LD03534p-related	T12G3.5	Lva, Unclassified, WT, Gro Dpy, Pch, Pace of P-Lineage abnormal, Emb, Unc, Rup, Gro,
30	Bm1_41030	conserved hypothetical protein	pqn-38	WT Lva, Ocs, Emb, Passage Through Meiosis defective, Unc,
30	Bm1_52065	hypothetical protein	pbs-5	Ste
30	Bm1_23010	hypothetical protein	CD4.3	Lva, Emb, Unclassified, WT, Gro
30	Bm1_57645	conserved hypothetical protein	patr-1	Emb, Unclassified, Lvl, WT
		peroxisomal membrane anchor		Lva, Larval Arrest-Early (L1/L2),
30	Bm1_07925	protein, putative	prx-14	WT, Gro
29	Bm1_09975	hypothetical protein	C44B7.3	Egl, WT
29	Bm1_52560	hypothetical protein	T10G3.1	Emb, WT

29	Bm1_55970	hypothetical protein	C23G10.8	Emb, Pvl, Ste, WT, Gro
29	Bm1_27240	hypothetical protein	T09A5.9	Emb, Nuclear Appearance abnormal, Pvl, Ste, Unc, Stp
29	Bm1_14115	hypothetical protein	ain-1	Egl, Unc, WT
29 29	Bm1_04775 Bm1_47280	hypothetical protein WD-repeat protein WDC146related	H35B03.2 F25B5.7	Lva, Unclassified, Larval Arrest- Late (L3/L4), Stp, Gro Let, Unclassified, Rup, WT
28	Bm1_05925	EGF-like domain containing protein	mup-4	Prz, Lva, Sck, Ste, Adl, WT, Larval Lethal-Early (L1/L2)
28	Bm1_49935	Zn-finger in Ran binding protein and others containing protein	C27H5.3	Emb, WT
28 28	Bm1_21655 Bm1_19420	hypothetical protein hypothetical protein	<i>lpd-9</i> C16C10.6	Lva, Emb, Lvl, Larval Arrest-Late (L3/L4), Lpd, WT, Gro Lva, Emb, WT, Gro
20 28	Bm1_19420 Bm1_07450	hypothetical protein	C10C10.0 C07D8.3	Lva, Emb, Unc, WT
20	Biii1_07430	hypothetical protein	00700.0	
27	Bm1_54105	hypothetical protein RNA dependent RNA polymerase	tag-319	Emb, Ste, WT, Stp
27	Bm1_12525	family protein	ego-1	Cyk, Emb, WT, Gro
27	Bm1_13915	Nematode astacin protease protein 9, isoform c-related	nas-9	Emb, WT
27	Bm1_39000	predicted protein	K04C2.5	Sck, Lvl, WT, Stp, Gro
	_	Nematode cuticle collagen N-		
26	Bm1_54705	terminal domain containing protein	col-17	Dpy, Sck, WT
26	Bm1_05210	hypothetical protein	dpy-7	Dpy, Egl, Unc, WT, Gro
26	Bm1_56880	hypothetical protein RNA-directed RNA polymerase 1-	Y38E10A.24	Clr, Sck, Emb, Gro
26	Bm1_17365	related	ego-1	Cyk, Emb, WT, Gro
26	Bm1_40345	conserved hypothetical protein Ground-like domain containing	F59B10.3	Emb, WT
26	Bm1_52595	protein	grl-4	Gro, WT
26	Bm1_38270	predicted protein	tag-273	Unclassified, Stp, WT
26	Pm1 06665	Transmembrane amino acid	F21D12.3	Emb W/T
26 25	Bm1_06665 Bm1_39335	transporter protein conserved hypothetical protein	B0310.1	Emb, WT Unclassified, WT
25 25	Bm1 41530	BED zinc finger family protein	gei-13	Rol, Dpy, Unc, WT
25	BIII1_41330	BED zine ninger lanning protein	yei-15	Pch, Emb, Severe Pleiotropic
25	Bm1_00640	hypothetical protein	ifg-1	Defects, Ste, Bmd, Lva, Sterile F0/Fertility Problems, Gro, WT
		Cuticle collagen dpy-7 precursor,		-
25	Bm1_06810	putative	dpy-7	Dpy, Egl, Unc, WT, Gro
25	Bm1_18685	conserved hypothetical protein	W01A8.4	Bmd, Lva, Emb, WT
20	Din1_10003	NADH-ubiquinone oxidoreductase	••••170. 4	
25	Bm1_49180	15 kDa subunitrelated	Y54E10BL.5	Unclassified
25	Bm1_19740	Hypothetical protein	K10D6.2	Emb, WT
~-	D			
25	Bm1_45285	CG13018-PA, putative	Y18D10A.16	Gro, WT

25	Bm1_53210	predicted protein	T19A5.3	Lvl, WT
25	Bm1_37315	hypothetical protein	hmg-5	WT, Stp
25	Bm1_07795	hypothetical protein	F45E12.5	Emb, WT, Stp
20	Biii1_0// 00	nypotile iedi protein	140212.0	
24	Bm1_11840	hypothetical protein	K07B1.6	Lva, WT
24	Bm1_21815	hypothetical protein	F10E9.4	Lva, Unclassified, Lvl, Gro, WT
24	Bm1_32260	conserved hypothetical protein	C15C7.5	Clr, Unclassified, Unc, WT, Gro
	-	Salivary glue protein Sgs-3		
24	Bm1_04070	precursorrelated	H11E01.3	Emb, WT
				Lva, Spd, Spindle Assembly
~ .				abnormal, Emb, Unclassified,
24	Bm1_50790	hypothetical protein	spd-2	Ste
24	Bm1_22765	hypothetical protein	ZK484.4	Emb, WT, Stp
24	Bm1_22905	hypothetical protein	ZK858.5	Emb, WT
24	Bm1 38370	predicted protein	flp-1	Aldicarb resistant, WT
23	Bm1 15075	PDZ domain containing protein	T21G5.4	Lva, Pvl, WT, Stp
23	Bm1_14650	hypothetical protein	F23H11.2	Ste, Sma, WT, Stp
23	Bm1 55755	major sperm protein, putative		Unclassified, WT
23	BIII_35735	major sperm protein, putative	ssp-16	
23	Bm1_55755	major sperm protein, putative	ssp-19	Unclassified, WT
23	Bm1_53230	hypothetical protein	C26F1.3	Gro, WT
				Prz, Clr, Lvl, Unc, Lva, Larval
23	Bm1_53630	hypothetical protein	F09E5.11	Arrest-Early (L1/L2), Gro, WT
23	Bm1_09930	kinesin light chain, putative	klc-2	Emb, WT
22	Bm1_23380	Zinc finger, C2H2 type family protein	C01B7.1	Luc Emp W/T Cro
22				Lva, Emb, WT, Gro
	20000	Zine linger, ezniz type lanning protein		Lue Ole Frede Lleeleesified
	_			Lva, Clr, Emb, Unclassified,
22	Bm1_15990	RE06140p-related	T21B10.1	Lva, Clr, Emb, Unclassified, Sma, WT, Gro
22	_ Bm1_15990	RE06140p-related		Sma, WT, Gro
22 22	- Bm1_15990 Bm1_09120	RE06140p-related Hypothetical protein	T21B10.1 E01A2.6	Sma, WT, Gro Emb, WT
22	_ Bm1_15990	RE06140p-related	T21B10.1	Sma, WT, Gro
22 22	- Bm1_15990 Bm1_09120	RE06140p-related Hypothetical protein hypothetical protein	T21B10.1 E01A2.6	Sma, WT, Gro Emb, WT Gro, WT Emb, WT
22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through
22 22 22	- Bm1_15990 Bm1_09120 Bm1_46225	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing	T21B10.1 E01A2.6 C05B5.4	Sma, WT, Gro Emb, WT Gro, WT Emb, WT
22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_46355	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT
22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through
22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_46355	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT
22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_28165 Bm1_01765	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective,
22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_46355 Bm1_28165	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT
22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_01765 Bm1_01505	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein,	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT
22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_28165 Bm1_01765	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT
22 22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_01765 Bm1_01505 Bm1_01505	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein, putative	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3 F11G11.5	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT Clr, Pch, Emb, Unclassified, Lva,
22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_01765 Bm1_01505	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein,	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT Clr, Pch, Emb, Unclassified, Lva, Gro, Stp, WT
22 22 22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_28165 Bm1_01765 Bm1_01505 Bm1_01505 Bm1_44095 Bm1_19440	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein, putative hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3 F11G11.5 C06A8.2	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT Clr, Pch, Emb, Unclassified, Lva, Gro, Stp, WT Lva, Emb, WT, Larval Lethal-
22 22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_01765 Bm1_01505 Bm1_01505	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein, putative	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3 F11G11.5	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT Clr, Pch, Emb, Unclassified, Lva, Gro, Stp, WT
22 22 22 22 22 22 22 22 22 22 22 22	Bm1_15990 Bm1_09120 Bm1_46225 Bm1_21885 Bm1_21885 Bm1_46355 Bm1_28165 Bm1_28165 Bm1_01765 Bm1_01505 Bm1_01505 Bm1_44095 Bm1_19440	RE06140p-related Hypothetical protein hypothetical protein SWIB/MDM2 domain containing protein hypothetical protein hypothetical protein Probable mitochondrial import receptor subunit TOM7-like Hypothetical protein Conserved hypothetical protein, putative hypothetical protein	T21B10.1 E01A2.6 C05B5.4 T24G10.2 emb-30 C26B9.3 tomm-7 R186.3 F11G11.5 C06A8.2	Sma, WT, Gro Emb, WT Gro, WT Emb, WT Emb, Pvl, Passage Through Meiosis defective, Stp, WT Egl, Pvl, Unc, WT Unclassified, WT Osmotic Integrity defective, Emb, WT Emb, WT Clr, Pch, Emb, Unclassified, Lva, Gro, Stp, WT Lva, Emb, WT, Larval Lethal-

21	Bm1_06340	hypothetical protein	K02E10.4	Unclassified, WT
21 21	Bm1_50365 Bm1 41110	conserved hypothetical protein conserved hypothetical protein	F09G2.9 C45G9.11	Emb, Ste, WT Sterile F0/Fertility Problems, WT
21	5111_41110	conserved hypothetical protein	04000.11	Sterile For cruity Froblems, WF
21	Bm1_53505	myotactin form B, putative	let-805	Prz, Sck, Emb, Lvl, Adl, Ste, WT
20	Bm1_35045	hypothetical protein	H05L03.3	Unclassified, WT
20	Bm1_38610	conserved hypothetical protein	tnt-4	Larval Arrest-Early (L1/L2), WT
20	BIII1_30010		<i>un-</i> +	Pch, Sck, Pvl, Lvl, Ste, WT, Stp,
20	Bm1_13170	conserved hypothetical protein	K04C2.2	Gro
20	Bm1_32180	hypothetical protein	F55A12.2	Gro, WT
20	Bm1_07440	hypothetical protein Fibronectin type III domain	Y53F4B.13	Ste, WT
20	Bm1_26400	containing protein	ptp-3	Emb, Morphology defect, WT
00	D4. 05005			Spindle Assembly abnormal,
20	Bm1_25025	Spc97 / Spc98 family protein	gip-1	Emb, WT Dpy, Emb, Unclassified, Pvl,
20	Bm1_43720	conserved hypothetical protein	eif-3.F	Bmd, Lva, WT, Stp, Gro
				Lva, Emb, Pvl, Larval Arrest-
20	Bm1_10260	gene model 83, putative	ZK430.7	Late (L3/L4), Ste, WT, Gro
20	Bm1_37335	ankyrin-related unc-44-related	unc-44	Dpy, Slu, Unc, Sma, Gro, WT
19	Bm1_20495	hypothetical protein	Y40B1B.5	Gro, WT
	_			
19	Bm1_33635	hypothetical protein	R09F10.3	Emb, Ste, WT
19	Bm1_54575	Membrane calcium atpase protein 3, isoform a, putative	mca-3	Prz, Adl, WT
19	Bm1_03645	Warthog protein-related	wrt-4	Emb, WT
40	D		00400.0	Let, Emb, Lvl, Ste, Rup, Bmd,
18	Bm1_10215	Calcium-binding proteinrelated ATP synthase epsilon chain,	C01G8.9	Led, WT, Gro Emb, Severe Pleiotropic
18	Bm1_00120	mitochondrial, putative	F32D1.2	Defects, WT, Stp, Gro
18	Bm1_21210	Innexin inx-14related	inx-3	Lva, Unc, Gro, WT
18	Bm1_01060	Calcium-binding proteinrelated	K01A6.4	Emb, Unc, Gro, WT
18	Bm1_45055	Chitin binding Peritrophin-A domain containing protein	W03F11.1	Ste, WT
17	Bm1_10475	hypothetical protein	W01A8.5	Emb, Unclassified, Stp, WT
17	Bm1_46520	predicted protein	C54G4.9	Emb, WT
17	Bm1_14055	ShTK domain containing protein	F48G7.5	Sck, Ste, WT, Stp Bmd, Sck, Emb, Unclassified,
17	Bm1_22500	hypothetical protein	F20D12.2	Lvl, Ste, WT
17	Bm1_46015	F-box domain containing protein	K03H1.11	Emb, WT
47	D=1 00210	protoin DE2.2 related	00700.0	
17	Bm1_06310	protein R52.2-related Transmembrane cell adhesion	C07D8.2	Lva, Emb, Unc, WT Prz. Lvl. Ste, Unc, Lva, Sck, WT
16	Bm1_18740	receptor mua-3 precursor, putative	mua-3	Prz, Lvl, Ste, Unc, Lva, Sck, WT, Larval Lethal-Early (L1/L2)
	—			Prz, Let, Emb, Pvl, Lvl, Ste, Rup,
16	Bm1_47930	VAB-10A protein-related	vab-10	Unc, Bmd, Lva, Gro, Stp, WT

16	Bm1_05890	B20-1 protein, putative	gei-16	Lva, Emb, Lvl, Gro, WT
16 16	Bm1_03770 Bm1_25120	FLYWCH zinc finger domain containing protein Tudor domain containing protein	peb-1 tudr-1	Clr, Pvl, Unclassified, Unc, WT Emb, WT
16	Bm1_38875	hypothetical protein	Y62E10A.11	Emb, Pvl, Unc, Ste, Stp, Gro, WT
15	Bm1_13600	major sperm protein 2 , putative cytoskeletal MSP	msp-40	Emb, Unclassified, WT Aberrant Cytoplasmic Structures, Lva, Clr, Emb, Mlt,
15	Bm1_23015	hypothetical protein, conserved	CD4.4	Unc, WT, Gro
15	Bm1_13605	Major Sperm Protein (MSP), putative cytoskeletal MSP	msp-50	Sck, Emb, Unclassified, Ste, WT Pch, Unclassified, Lvl, Lva, Sck,
15	Bm1_33105	hypothetical protein	Y57A10A.27	Stp, Gro, WT
15 15	Bm1_22560 Bm1_10860	hypothetical protein hypothetical protein	<i>dpy-22</i> Y106G6A.2	Egl, Pvl, Unc, Sma, WT Gro, WT
15	– Bm1_22820	hypothetical protein	R10H10.4	Aldicarb resistant, Emb, WT
	_			
15	Bm1_46970	hypothetical protein	C14A4.12	Unclassified, WT Bmd, General Pace of
14	Bm1 38880	Mitochondrial ATP synthase g subunit family protein	asg-1	Development abnormal, Emb, Etv, WT, Stp, Gro
14	Bm1_46130	hypothetical protein	Y37D8A.16	Lva, Unc, Gro, WT
14	Bm1_42730	conserved hypothetical protein	Y54E10A.7	Lva, Emb, WT, Gro
14	Bm1_09160	conserved hypothetical protein	F18C12.3	Gro, WT
14	Bm1_29320	hypothetical protein	spd-1	Egl, Pvl, Lon, Unc, Rup, Bmd, Stp, WT, Gro
14	 Bm1_57650	conserved hypothetical protein	ZK930.3	Egl, Pvl, Unc, WT Cortical Dynamics abnormal,
14	Bm1_56480	RhoGAP domain containing protein	K09H11.3	Emb, Ste
13	Bm1_26235	hypothetical protein NADH-ubiquinone oxidoreductase	W02B8.4	Emb, WT
13	Bm1_55690	B12 subunitrelated Hypothetical 20.9 kDa protein in	C18E9.4	Lva, Emb, WT, Gro
13	Bm1_10660	PLB1-HXT2 intergenic region related	T01D1.4	Emb, WT Dpy, Lva, Larval Arrest-Early
13	Bm1_41635	hypothetical protein	R07E5.7	(L1/L2), LvI, Unc, WT, Gro
13	Bm1_51715	hypothetical protein Helix-loop-helix DNA-binding domain	C14C10.4	Lva, Emb, Ste, WT, Gro
13	Bm1_40800	containing protein	hlh-13	Lva, Emb, Lvl, Unc, WT
13	Bm1_50395	hypothetical protein	sgo-1	Lva, Emb, Unclassified, WT
12	Bm1_53760	cytochrome-c oxidase, putative	Y71H2AM.5	Lva, Clr, Emb, WT, Stp, Gro
12	Bm1_28945	hypothetical protein	F33D11.5	Ste, WT
12	Bm1_50000	Conserved hypothetical protein, putative	F02E9.5	Emb, WT

12 12	Bm1_53515 Bm1_33500	conserved hypothetical protein hypothetical protein	<i>let-805</i> Y54E10A.16	Prz, Sck, Emb, Lvl, Adl, Ste, WT Prz, Egl, WT Emb, Unclassified, Lvl, Unc, Lva,
12	Bm1_36265	conserved hypothetical protein Ubiquitin carboxyl-terminal hydrolase	smn-1	Sck, WT, Stp, Gro
12	Bm1_29880	family protein Conserved hypothetical protein,	Y67D2.2	Emb, Lvl, WT Lva, Sck, Emb, Sma, WT, Stp,
12	Bm1_52720	putative	lpl-1	Gro
12	Bm1_21695	hypothetical protein heavy metal-associated domain	E01G4.2	Lva, Larval Lethal-Late (L3/L4), Ste, WT
12 12 12	Bm1_23935 Bm1_06925 Bm1_07615	containing protein F26F3.2 protein -related Peroxin-3 family protein	сис-1 ndg-4 С15Н9.10	Unclassified, WT Bmd, Emb, WT General Pace of Development abnormal, Larval Arrest-Early (L1/L2), WT
	_			Pronuclear/Nuclear Appearance
12	Bm1_46775	hypothetical protein	T24F1.2	abnormal, WT
11	Bm1_29000	hypothetical protein bZIP transcription factor family	tag-286	Emb, WT
11	Bm1_27615	protein	fos-1	Pvl, Ste, Rup, WT, Stp
11	Bm1_32720	hypothetical protein	C29H12.6	Unclassified, WT Emb, Unclassified, Pvl, Unc, Rup, Bmd, Lva, Sck, WT, Gro,
11	Bm1_07485	hypothetical protein	K04G7.11	Stp
11	Bm1_26745	hypothetical protein	C23H3.2	Unclassified, WT
11	Bm1_18115	hypothetical protein	npp-15	Emb, WT
11	Bm1_00910	Zinc finger, C2H2 type family protein	F10B5.3	Unclassified, WT, Stp
11	Bm1_43075	hypothetical protein	C50F2.2	Emb, WT
11	Bm1_02140	Lethal protein 805, isoform d, putative Ubiquinone biosynthesis protein	let-805	Prz, Sck, Emb, Lvl, Adl, Ste, WT
10	Bm1_53390	COQ4 homolog, putative	coq-4	Age, Unclassified, WT
10	Bm1_52605	hypothetical protein	C50E3.5	Emb, WT, Stp
10	Bm1_05820	hypothetical protein	B0240.4	Pronuclear/Nuclear Appearance abnormal, WT
10	Bm1_54895	hypothetical protein	C08C3.4	Ste, WT
40	Due 1 07705	NHR1 homology to TAF family	4-5.4	Lva, Emb, Lvl, Unc, Ste, Gro,
10 10	Bm1_37705 Bm1_16040	protein hypothetical protein	<i>taf-4</i> F01F1.3	WT Emb, WT
9	Bm1_02065	Abnormal cell migration protein 10, putative	mig-10	Egl, Emb, Unc, Gro, WT Egg Size abnormal, Emb,
9	Bm1_41775	UBA/TS-N domain containing protein	pqn-59	Unclassified, Lvl, Unc, Ste, Lva, Sck, WT

9	Bm1_19380	hypothetical protein 28S ribosomal protein S30,	F42G4.6	Aldicarb resistant, WT
9	Bm1_56530	mitochondrial, putative	B0511.8	Lva, Emb, Pvl, Ste, Sma, WT
9 9	Bm1_30695 Bm1_32280	hypothetical protein hypothetical protein	R04F11.5 <i>tag-343</i>	Emb, WT Unc, Gro, WT Lva, General Pace of
9	Bm1_24615	ATP synthase B chain, mitochondrial precursor, putative Thyroglobulin type-1 repeat family	asb-2	Development abnormal, Emb, Unclassified, Ste, Stp, Gro, WT
8	Bm1_09195	protein	mlt-11	Lva, Emb, Unc, WT
8	Bm1_42645	hypothetical protein	mut-7	Lva, WT
8	Bm1_01030	hypothetical protein	T08H4.2	Emb, WT Clr, Emb, Unclassified, Unc, Etv,
		Hypothetical UPF0172 protein		Complex Phenotype, Lva, Gro,
8	Bm1_50115	CG3501related	F25H2.4	Stp, WT
7	Bm1_26495	hypothetical protein	T07C12.12	Emb, WT
7	Bm1_46050	Zinc finger, C2H2 type family protein	ZC395.8	Sck, Unc, WT, Stp
				Clr, Emb, Larval Arrest-Early
7	Bm1_01100	hypothetical protein	T06A10.2	(L1/L2), Lon, Gro, WT
7	Bm1_27360	hypothetical protein	T14B4.1	Emb, WT
7	_ Bm1_35060	Troponin family protein	tni-3	Let, Unclassified, WT
7	Bm1_10425	hypothetical protein	C06A5.3	PvI, Stp, WT
•	—			• •
6	Bm1_44890	hypothetical protein	W02D3.10	Emb, WT
	Bm1_44890	hypothetical protein OTU-like cysteine protease family	W02D3.10	Emb, WT
	Bm1_44890 Bm1_42145	hypothetical protein		• •
6	Bm1_44890	hypothetical protein OTU-like cysteine protease family	W02D3.10	Emb, WT
6 6	Bm1_44890 Bm1_42145	hypothetical protein OTU-like cysteine protease family protein	W02D3.10 duo-1	Emb, WT Aldicarb resistant, WT
6 6 6	Bm1_44890 Bm1_42145 Bm1_06460	hypothetical protein OTU-like cysteine protease family protein hypothetical protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3	Emb, WT Aldicarb resistant, WT Unclassified, WT
6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT
6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3 F27C1.2	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro
6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT
6 6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT
6 6 6 6 6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3 F27C1.2 <i>unc-10</i> T09B4.2 B0495.2	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT
6 6 6 6 6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3 F27C1.2 <i>unc-10</i> T09B4.2 B0495.2 C34B2.8	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro
6 6 6 6 6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein gRIM-19 protein hypothetical protein	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3 F27C1.2 <i>unc-10</i> T09B4.2 B0495.2	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT
6 6 6 6 6 6 6 5	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile
6 6 6 6 6 6 6 6 6	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative	W02D3.10 <i>duo-1</i> ZC513.1 C31C9.2 ZK1010.3 F27C1.2 <i>unc-10</i> T09B4.2 B0495.2 C34B2.8	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT
6 6 6 6 6 6 6 5	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile
6 6 6 6 6 6 6 5 5	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290 Bm1_01955	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative Kunitz/Bovine pancreatic trypsin inhibitor domain containing protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16 tbx-33	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile F0/Fertility Problems, Unc, WT
6 6 6 6 6 6 6 5 5	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290 Bm1_01955	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative Kunitz/Bovine pancreatic trypsin	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16 tbx-33	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile F0/Fertility Problems, Unc, WT
6 6 6 6 6 6 6 6 5 5 5 4	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290 Bm1_01955 Bm1_17130 Bm1_09640	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative Kunitz/Bovine pancreatic trypsin inhibitor domain containing protein Nematode cuticle collagen N- terminal domain containing protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16 tbx-33 mlt-11 dpy-9	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile F0/Fertility Problems, Unc, WT Lva, Emb, Unc, WT
6 6 6 6 6 6 6 5 5	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290 Bm1_01955 Bm1_17130	hypothetical protein OTU-like cysteine protease family protein hypothetical protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative Kunitz/Bovine pancreatic trypsin inhibitor domain containing protein Nematode cuticle collagen N- terminal domain containing protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16 tbx-33 mlt-11	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile F0/Fertility Problems, Unc, WT Lva, Emb, Unc, WT
6 6 6 6 6 6 6 6 5 5 5 4	Bm1_44890 Bm1_42145 Bm1_06460 Bm1_56405 Bm1_23670 Bm1_34425 Bm1_08610 Bm1_05190 Bm1_13195 Bm1_18845 Bm1_19290 Bm1_01955 Bm1_17130 Bm1_09640	hypothetical protein OTU-like cysteine protease family protein hypothetical protein FRG1 protein homolog, putative Ctr copper transporter family protein Hypothetical protein hypothetical protein hypothetical protein GRIM-19 protein hypothetical protein LPXTG cell wall surface anchor family protein, putative Kunitz/Bovine pancreatic trypsin inhibitor domain containing protein Nematode cuticle collagen N- terminal domain containing protein	W02D3.10 duo-1 ZC513.1 C31C9.2 ZK1010.3 F27C1.2 unc-10 T09B4.2 B0495.2 C34B2.8 npp-16 tbx-33 mlt-11 dpy-9	Emb, WT Aldicarb resistant, WT Unclassified, WT Emb, Gro, WT Lva, Gro, WT Dpy, Ste, Sma, WT, Stp, Gro Aldicarb resistant, WT Emb, WT Emb, WT Lva, Sle, Emb, WT, Gro Larval Arrest-Early (L1/L2), WT Bmd, Lva, Emb, Sterile F0/Fertility Problems, Unc, WT Lva, Emb, Unc, WT

4 4	Bm1_03010 Bm1_10315	PRO0477p-related Long protein 1, isoform b, putative	Y50D7A.9 lon-1	Unclassified, WT Sck, Emb, WT
4	Bm1_35660	Succinate dehydrogenase, putative Hypothetical thiol protease C06G4.2	F33A8.5	Lva, Clr, Emb, WT, Gro
4	Bm1_21040	in chromosome IIIrelated	clp-1	Ced, WT
4	Bm1_06045	conserved hypothetical protein	K06C4.15	Lva, Emb, Unc, WT
3	Bm1_49240	hypothetical protein	irs-2	Unclassified, Gro, WT
3	Bm1_28060	Hypothetical protein	R12E2.12	Lva, Unclassified, WT
3	Bm1_13520	Hypothetical protein-conserved	C05D11.10	Let, Lva, Emb, Gro, WT
3	Bm1_20745	adenosine deaminase ADR-1C, putative	adr-1	Lva, Unclassified, WT
	-	cAMP-dependent protein kinase		Dpy, Lvl, Unc, Bmd, Lva, Stp,
2	Bm1_39165	regulatory chain, putative	kin-2	Larval Lethal-Early (L1/L2), WT
2	Bm1_16530	Hint module family protein	qua-1	Lva, Clr, Larval Lethal-Late (L3/L4), Mlt, Unc, WT Bli, Sister Chromatid Separation abnormal (Cross-eyed), Emb,
2	Bm1_43570	hypothetical protein	F55C5.4	Unclassified, Pvl, Unc, Gro
2	Bm1 24565	conserved hypothetical protein	mps-1	Emb, WT
2	Bm1_15165	hypothetical protein	C56G2.1	Emb, Sterile F1, WT
				, , , ,
2	Bm1_29960	von Willebrand factor type A domain containing protein	M01E10.2	Dpy, Unclassified, WT
1	Bm1_52385	hypothetical protein Immunoglobulin I-set domain	Y24D9A.1	Sterile F1, WT
1	Bm1_42980	containing protein	oig-2	Unclassified, WT
1		F-box domain containing protein	F54D5.9	Emb, WT
	_			
1	Bm1_03155	gag protein-related	F07B7.6	Lva, Emb, Unc, WT
1	Bm1_06290	hypothetical protein	K06C4.14	Emb, WT
1	Bm1_14965	hypothetical protein P. falciparum RESA-like protein with	R03E1.2	Lva, Emb, Unclassified, Lvl, Unc, WT, Larval Lethal-Early (L1/L2)
1	Bm1_00705	DnaJ domain-related	ssq-2	Unc, WT
1		hypothetical protein	, F08G2.7	Unclassified, WT
1	Bm1_19425	MNN4 proteinrelated	F46C5.6	Unclassified, WT
4	Dm1 26090	hypothetical protein	<i>1</i>	Dpy, Spindle Assembly
1	Bm1_36080	hypothetical protein	sas-4	abnormal, Emb, Unc, Rup, Gro
0	Bm1_02410	hypothetical protein	C33H5.17	Unclassified, WT
0	Bm1_13005	hypothetical protein	smu-2	Unclassified, WT
0	Dm1 42705	May 31/MPN/DAD 1 family protain	oif 2 E	Dpy, Emb, Unclassified, Pvl,
0	Bm1_43725	Mov34/MPN/PAD-1 family protein	eif-3.F	Bmd, Lva, WT, Stp, Gro
0	Bm1_31870	Surfeit locus protein 5 containing	mdt-22	Dpy, Slu, Emb, Pvl, Sma, Lva,

		protein		WT, Gro, Stp Led, Sister Chromatid
0 0	Bm1_08175 Bm1_00430	conserved hypothetical protein hypothetical protein	<i>cdt-1</i> F54D7.7	Separation abnormal (Cross- eyed), Emb, Pvl, Ste Aldicarb resistant, WT
0 0 0 0	Bm1_28625 Bm1_28315 Bm1_32025 Bm1_03765	Mitochondrial glycoprotein conserved hypothetical protein hypothetical protein hypothetical protein	F59A2.3 T16G12.5 C54G7.1 C15H9.7	Rup, Unc, Gro, WT Pvl, Unc, Rup, Stp, Gro, WT Unclassified, WT Unclassified, WT
-1	Bm1_51735	Troponin I, putative Barrier-to-autointegration factor 1,	tni-4	WT, Gro Bmd, Emb, Unclassified, Unc,
-1 -1	Bm1_13150 Bm1_27705	putative 7B2-related	baf-1 sbt-1	WT Aldicarb resistant, WT
-2	Bm1_34300	Nematode cuticle collagen N- terminal domain containing protein	dpy-8	Rol, Dpy, Egl, Unc, Sma, WT
-2	– Bm1_22990	actin-depolymerizing factor 1, putative	unc-60	Let, Sck, Pvl, Unclassified, Ste, Unc, WT Let, Emb, Unc, Aberrant
-2	Bm1_25910	RIKEN cDNA 2610002M06, putative Hepatocellular carcinoma-associated	F23C8.6	Cytoplasmic Structures, Lva, aldicarb resistant, Gro, Larval Lethal-Early (L1/L2), WT
-2	Bm1_25810	antigen 127, putative	ZK930.3	Egl, Pvl, Unc, WT
-3	Bm1_33765	hypothetical protein	R08D7.2	Emb, Pvl, Rup, Stp, Gro, WT
-3	Bm1_34145	RE35789p-related	F33D4.7	Lva, Emb, Unclassified, WT
-3	Bm1_14240	PWWP domain containing protein	C06A5.3	PvI, Stp, WT
-3	Bm1_19990	cuticle collagen 2 precursor, putative	col-97	Dpy, Bmd, Unc, WT
-3	Bm1_29435	Hypothetical protein	Y63D3A.8	Sck, Sma, WT, Stp
-4	Bm1_33020	LAMP family protein Imp-1 precursorrelated	lmp-1	Clr, WT
-4	Bm1_04725	Helix-loop-helix DNA-binding domain containing protein	hlh-2	Emb, Pvl, Unc, WT, Stp Bmd, Sister Chromatid
-4	Bm1_35390	Slbp protein, putative	cdl-1	Separation abnormal (Cross- eyed), Emb, Pvl, Ste, Rup, Gro
-4	Bm1_39400	BED zinc finger family protein	F25H8.6	Lva, WT
-4	Bm1_07190	hypothetical protein	F41G3.14	Sck, Larval Arrest-Early (L1/L2), WT Prz, Emb, Unclassified, Pvl, Lvl,
-5	Bm1 05435	conserved hypothetical protein	Y54E10A.2	Rup, Unc, Lva, WT, Gro
-5	Bm1_37515	hypothetical protein Filamin/ABP280 repeat family	F53A9.4	Unclassified, WT
-5	Bm1_34195	protein	C23F12.1	Mlt, Unc, Rup, WT, Gro
-5	Bm1_33855	Ubiquinol-cytochrome C chaperone family protein Neurotransmitter-gated ion-channel	C35D10.5	Emb, Larval Lethal-Early (L1/L2), WT, Gro
-5 -6	Bm1_30505 Bm1_55395	transmembrane region family protein Conserved hypothetical protein,	F21A3.7 npp-4	WT, Stp, Gro Pronuclear/Nuclear Appearance

putative

abnormal, Emb, Unclassified, Pvl, Stp, Gro, WT

				Pvl, Sterile F1, Rup, Unc, Stp,
-6	Bm1_21970	conserved hypothetical protein	Y39A1A.13	WT
-6	Bm1_13050	Hypothetical protein	Y39B6A.36	Emb, Rup, Stp, Gro, WT
-6	Bm1_03920	Cytochrome c oxidase subunit IV family protein	W09C5.8	Lva, Age, Emb, Ste, WT, Gro Sister Chromatid Separation abnormal (Cross-eyed), Emb,
-7	Bm1_06785	conserved hypothetical protein	Y71H2B.2	WT Lva, Sck, Emb, Lvl, Ste, WT,
-7	Bm1_22805	Hypothetical protein	snr-5	Larval Lethal-Early (L1/L2) Bmd, Chromosome Segregation (karyomeres) abnormal, Emb,
-7	Bm1_02630	hypothetical protein	C06A8.5	WT, Gro
-7		conserved hypothetical protein	R05D11.9	Emb, WT
-8	Bm1_29430	Cytochrome c oxidase polypeptide Vb, mitochondrial precursorrelated	cco-1	Age, Clr, Emb, Unclassified, Lpd, Ste, Lva, Gro, WT Osmotic Integrity defective, Emb, Pvl, Passage Through
-9	Bm1_10835	hypothetical protein	C09H10.7	Meiosis defective, Stp
		RNA recognition motif containing		
-9	Bm1_31055	protein, putative NADH-ubiquinone oxidoreductase ASHI subunit, mitochondrial	K07H8.10	Emb, WT, Gro
-9	Bm1_44000	precursor, putative	Y51H1A.3	Emb, Unclassified, WT
		NADH-ubiquinone oxidoreductase 18 kDa subunit, mitochondrial		
-9	Bm1_41915	precursorrelated	lpd-5	Lva, Emb, WT
-9	Bm1_16675	hypothetical protein	F26E4.4	Lva, Emb, Larval Arrest-Early (L1/L2), WT Lva, Pch, Slu, Emb,
-9	Bm1_36460	hypothetical protein	Y51H4A.15	Unclassified, WT, Gro Emb, Pvl, Rup, Unc, Sma, Sck,
-10	Bm1_52475	hypothetical protein	T01C3.1	Gro, WT
-10	Bm1_01075	CG15780-PA-related	Y73B3A.17	Larval Arrest-Late (L3/L4), WT
-10	Bm1_07885	SD09147p-related	F25H5.6	Lva, Unclassified, Gro, WT
-10	Bm1_40540	conserved hypothetical protein	C39E9.11	Emb, Unc, WT
-11	Bm1_42620	DNA segment, Chr 7, Wayne State University 180, expressed, putative	crn-5	Lva, Pch, Larval Arrest-Early (L1/L2), WT, Gro Lva, Larval Arrest-Early (L1/L2), Unclassified, Pvl, Larval Arrest-
-11	Bm1_33770	zgc:92910-related	ZK265.6	Late (L3/L4), WT, Gro
-11	Bm1_36075	D10Ertd718e protein-related	F10E9.11	Spindle Assembly abnormal, Emb, WT
-12 -12	Bm1_49670 Bm1_48075	zgc:101594-related M-phase phosphoprotein 6related	Y47G6A.9 F29A7.6	Lva, Clr, Pvl, Rup, WT, Stp, Gro Lva, Pch, Pvl, WT, Stp, Gro
	—			
-12	Bm1_04435	Hypothetical protein	vha-15	Prz, Bli, Lva, Emb, Lvl, WT

-12	Bm1_55635	hypothetical protein	mdf-1	Pvl, Unc Egl, Emb, Lvl, Rup, Unc, Bmd, Lva, Larval Lethal-Early (L1/L2),
-13	Bm1_57435	ELM2 domain containing protein	egl-27	WT
		Ubiquinol-cytochrome C reductase		
-13	Bm1_14750	hinge protein	T27E9.2	Gro, WT
-13	Bm1_34560	CGI-115 protein-related	F53E10.6	WT, Gro
		Probable dolichol-phosphate		
-13	Bm1_46380	mannosyltransferase subunit 3, putative	F28D1.11	Sck, Sma, WT, Stp
-10	Dii11_40000	putative	12001.11	Egl, Pch, Ste, Gon, Lva, Gro,
-14	Bm1_46795	protein T01B7.5, putative	T01B7.5	Stp, WT
	—	Conserved hypothetical protein,		Lva, Emb, Larval Lethal-Early
-14	Bm1_46160	putative	D2007.4	(L1/L2), WT, Gro
-14	Bm1_49750	ORF; putative	Y47H9C.7	Dpy, Lva, Emb, WT, Gro
-15	Bm1_47525	LD18634p-related	egl-46	Sck, Lvl, WT, Gro
. –		small heat shock protein 12.6,		
-15	Bm1_12585	putative	hsp-12.2	Sterile F0/Fertility Problems, WT
-15	Bm1_37955	hypothetical protein	ZK792.5	Unclassified, Stp, WT
-15	Bm1 18760	conserved hypothetical protein	C56A3.4	WT, Gro
	—			
-15	Bm1_02155	Delta5 fatty acid desaturase-related	fat-3	Dpy, Unc, WT, Gro
				Larval Arrest-Early (L1/L2), Gro,
-16	Bm1_01935	Hypothetical protein	Y43F8C.8	WT
-16	Bm1_03840	Hypothetical protein	Y40B1B.7	Emb, Gro, WT, Stp
-10	BIII1_03040		140010.7	
-17	Bm1_37810	GGL domain containing protein	gpc-2	Pnm, Emb, WT
				Emb, Larval Arrest-Early (L1/L2),
47	Dm1 10240	hundhatical anatain	K04074	Unclassified, Larval Arrest-Late
-17	Bm1_16340	hypothetical protein	K04G7.1	(L3/L4), WT, Stp, Gro Osmotic Integrity defective,
				Emb, Sterile F0/Fertility
				Problems, Ste, Sterility/Impaired
-17	Bm1_27220	hypothetical protein	pqn-45	Fertility in F0, WT
-18	Bm1_14345	Helix-loop-helix DNA-binding domain containing protein	hnd-1	Bmd, WT
-18	Bm1_48760	putative transcription factor	tag-313	Unclassified, WT, Gro
-18	Bm1_37370	conserved hypothetical protein	unc-44	Dpy, Slu, Unc, Sma, Gro, WT
-18	Bm1_02675	GYF domain containing protein	R10D12.14	Emb, WT
-18	Bm1_02520	1300013D05Rik protein-related	F52C9.7	Dpy, Sle, Emb, WT
-18	Bm1_56915	conserved hypothetical protein	Y51A2D.7	Emb, Ste, Unc, WT, Gro
				Egl, Emb, Lva, Larval Arrest-
10	Bm1 /1190	Conserved hypothetical protein,	ZK1098.7	Early (L1/L2), Stp, WT, Gro,
-19	Bm1_41180	putative	211090.1	Larval Lethal-Early (L1/L2)

-19 -19	Bm1_10195 Bm1_37250	Hypothetical protein RNA recognition motif. Conserved hypothetical protein,	C24H12.5 F11A10.7	Bmd, Lvl, Unc, WT Lva, Emb, WT Pch, Slu, Emb, Unclassified, Lvl,
-20	Bm1_41995	putative Helix-loop-helix DNA-binding domain	rsp-7	Unc, Gro, WT
-20 -20	Bm1_44295 Bm1_48330	containing protein Dihydrofolate reductaserelated	<i>hlh-1</i> C36B1.7	Emb, Unc, WT Emb, WT Egl, Sle, Ste, Lva, Larval Arrest- Early (L1/L2), Gro, Stp, Larval
-20 -21 -21	Bm1_45185 Bm1_44035 Bm1_28490	putative RNA binding protein hypothetical protein conserved hypothetical protein	T04A8.6 C50B6.2 F25H5.5	Lethal-Early (L1/L2), WT Emb, Unc, WT Emb, WT
-22	Bm1_26345	Hypothetical protein	tag-307	Age, Unclassified, WT
-22	Bm1_09495	conserved hypothetical protein	F30F8.9	Emb, WT
-22 -22	Bm1_17305 Bm1_25285	Hypothetical protein Prion-likerelated Hyaluronan / mRNA binding family	ntl-2 pqn-13	Emb, Unclassified, Larval Arrest- Late (L3/L4), Unc, Rup, Lva, Adl, WT, Gro, Stp Aldicarb resistant, WT
-22	Bm1_17120	protein	vig-1	Emb, WT General Pace of Development abnormal, Emb, Mlt, Unclassified, Lvl, Sma, Unc, Lva,
-22 -23	Bm1_54140 Bm1_19655	GH14561p-related Hypothetical protein	T27F7.1 F54C4.1	Adl, WT, Gro Lva, Emb, Gro, WT
-23	Bm1_19035 Bm1_42395	Nematode cuticle collagen N- terminal domain containing protein	col-137	Unclassified, Gro, WT
-23	Bm1_32145	Cuticle collagen dpy-7 precursor, putative	dpy-8	Rol, Dpy, Egl, Unc, Sma, WT
-23	Bm1_31210	Zinc finger, C2H2 type family protein	lir-1	Emb, Mlt, Lvl, Unc, WT Clr, Pch, Prl, Emb, Lvl, Pvl, Ste, Rup, Unc, Bmd, Lva, Sck, Gro,
-23	Bm1_27030	Talin 1, putative	Y71G12B.11	WT, Stp
-23	Bm1_27570	ARID/BRIGHT DNA binding domain containing protein UPF0279 protein C14orf129	C01G8.9	Let, Emb, Lvl, Ste, Rup, Bmd, Led, WT, Gro
-24 -24	Bm1_26605 Bm1_46495	homologrelated Zinc finger, C2H2 type family protein	T24H7.3 <i>lin-13</i>	Emb, WT Bmd, Sterile F1, WT
-25	Bm1_04785	AN1-like Zinc finger family protein	F56F3.4	Unclassified, WT
-25	Bm1_01560	conserved hypothetical protein	dgn-1	Unclassified, WT
-25	Bm1_49645	Microcephalin., putative	W04A8.1	Lvl, WT
-25	Bm1_45665	Mediator protein 11-related Hypothetical 19.4 kDa protein	mdt-11	Dpy, Lva, Emb, WT
-26	Bm1_30230	ZC395.10 in chromosome IIIrelated	ZC395.10	Emb, Ste, WT

-28 Bm1_05930 putative mup-4 Larval Lethal-Early (L1/L2) -27 Bm1_47605 CUB domain containing protein mup-4 Larval Lethal-Early (L1/L2) -27 Bm1_00645 receptor mua-3 precursor, putative mup-4 Larval Lethal-Early (L1/L2) -27 Bm1_65230 protein C18H9.7, putative mp-4 Larval Lethal-Early (L1/L2) -27 Bm1_56230 protein C18H9.7, putative mp-4 Larval Lethal-Early (L1/L2) -27 Bm1_43030 protein C18H9.7, putative mp-4 Larval Lethal-Early (L1/L2) -27 Bm1_43030 protein C18H9.7, putative mp-4 Larval Lethal-Early (L1/L2) -27 Bm1_43030 protein C18H9.7, putative mp-4 Larval Lethal-Early (L1/L2) -28 Bm1_41220 optication protein T09A5.8 Emb, WT -28 Bm1_34445 zgc:91831-related T09A5.8 Unclassified, WT -30 Bm1_15840 protein CG32584-PB-related ZK46.14 Unclassified, WT -30 Bm1_15840 protein CM-binaing protein ZK46.14 Unclassified, WT -30 Bm1_15840 protein protein Relateration protein ZK46.14 -30 Bm1_157145 containing protein <	-26 -26	Bm1_45060 Bm1_15510	hypothetical protein RE18450p, putative Muscle positioning protein 4,	Y53G8AM.8 M04B2.4	Emb, WT Gro, WT Prz, Lva, Sck, Ste, Adl, WT,
Transmembrane cell adnesion receptor mua-3 precursor, putativePrz, Lva, Sck, Ste, Adl, WT, Larval Lethal-Early (L1/L2)27Bm1_00645protein C18H9.7, putative M-phase phosphoprotein, mpp8, putative <i>rpy-1</i> V57A10A.10Unclassified, WT Unclassified, WT27Bm1_34260putative M-phase phosphoprotein, mpp8, putativeT09A5.8Emb, WT28Bm1_41220containing protein zgc:91831-related <i>Nih-4</i> K01G5.8PvI, Gro, WT28Bm1_34445Zinc finger, C2H2 type family protein Surfeit locus protein 6 containing proteinX56A3A.18 K14309.1Complex Phenotype, Lva, Emb, Stp, Gro, WT28Bm1_15840Surfeit locus protein 6 containing proteinY56A3A.18 F4309.1Complex Phenotype, Lva, Emb, Stp, Gro, WT30Bm1_15840M-phase phosphoprotein-related Fibronectin type III domain containing proteinF4309.1Dyp, Lva, Emb, Unclassified, WT Lva, Sck, Larval Arrest-Late (L3/L4), WT, Gro30Bm1_57145containing protein 	-26	Bm1_05930		mup-4	
-27Bm1_00645receptor mua-3 precursor, putativemup-4Larval Lethal-Early (L1/L2)-27Bm1_43030protein C18H9.7, putativerpy-1Unclassified, WT-27Bm1_34260GH25683p, putativeY57A10A.10Unclassified, WT-28Bm1_34220protein containing proteinT09A5.8Emb, WT-28Bm1_34445zgc:91831-relatedK01G5.8Unclassified, Gro, WT-28Bm1_33915Zinc finger, C2H2 type family proteinY56A3A.18ZK1248.11-29Bm1_33410CG32584-PB-relatedZK1248.11Unclassified, WT-30Bm1_11825hypothetical proteinF43D9.1Dyp, Lva, Emb, Unclassified, WT-30Bm1_57145Surfeit locus protein 6 containing proteinZK546.14Unclassified, WT-30Bm1_17070Leucine Rich Repeat family protein suppressor of lurcher protein 1 precursor, putativepan-1Lva, Cir, Lvi, Unc, WT-31Bm1_9390Hypothetical protein containing proteinpan-1Lva, Cir, Lvi, Unc, WT-32Bm1_13400Hypothetical protein containing proteinpan-1Lva, Cir, Lvi, Unc, WT-33Bm1_28035Hypothetical protein containing proteincal-12Lon, Unclassified, WT-33Bm1_38435LD152089, putative containing protein containing proteincal-12Lon, Unclassified, WT-33Bm1_23370LD152089, putative containing protein containing proteinC13F10.7Emb, WT-33Bm1_23370LD152089, putative containing protein </td <td>-27</td> <td>Bm1_47605</td> <td>CUB domain containing protein</td> <td>sol-1</td> <td></td>	-27	Bm1_47605	CUB domain containing protein	sol-1	
-27Bm1 43030 PTprotein C18H9.7, putative M-phase phosphoprotein, mpp8, putative <i>rpy-1</i> Y57A10A.10Unclassified, WT Unclassified, WT Unclassified, WT-28Bm1_34260M-phase phosphoprotein putativeT09A5.8Emb, WT-28Bm1_34445zgc:91831-related <i>hlh-4</i> K01G5.8Pvl, Gro, WT-28Bm1_33410CG32584-PB-relatedX11248.11 V10classified, WTUnclassified, WT-28Bm1_15840 proteinCG32584-PB-relatedX1248.11 F43D9.1Unclassified, WT-30Bm1_11825 Bm1_13865hypothetical protein Surfeit locus protein 6 containing proteinX56A3A.18 F43D9.1Complex Phenotype, Lva, Emb, Stp, Gro, WT-30Bm1_15840 ProteinM-phase phosphoprotein-related Fibronectin type III domain containing proteinZK546.14 F54H5.3Complex Phenotype, Lva, Emb, Unclassified, WT Lva, Sck, Laval Arrest-Late Lc3.42, Unclassified, WT-30Bm1_57145Containing protein conserved hypothetical protein 22-HC type zinc finger protein 1 precursor, putative <i>pan-1</i> Lva, Cir, Lvl, Unc, WT-31Bm1_6290Hypothetical protein Conserved hypothetical protein conserved hypothetical protein conserved hypothetical protein calaytic domain containing protein calaytic domain containing protein containing protein containing protein <i>daf-12</i> Lon, Unclassified, WT Let, Emb, Lvl, Ste, Rup, Bmd, Co1G8.9Led, WT, Gro-32Bm1_23370LD15209p, putative containing protein catalytic domain containing protein containing protein containing protein <i>daf-7</i> Aldicarb r					
-27Bm1_56230GH25683p, putative M-phase phosphoprotein, mpp8, Helix-loop-helix DNA-binding domain containing proteinY57A10A.10Unclassified, WT-28Bm1_34245zgc:91831-relatedT09A5.8Emb, WT-28Bm1_34445zgc:91831-relatedhlh-4Pvl, Gro, WT-28Bm1_34445zgc:91831-relatedK01G5.8Unclassified, Gro, WT-28Bm1_34445Zinc finger, C2H2 type family protein Surfeit locus protein 6 containing proteinY56A3A.18Complex Phenotype, Lva, Emb, V1, Cassified, WT-30Bm1_11826hypothetical protein Surfeit locus protein 6 containing proteinZK546.14Cl31.4), WT, Gro-30Bm1_57145containing protein suppressor of lurcher protein 1 precursor, putativepan-1Lva, Cir, Lvl, Unc, WT-30Bm1_17070Leucine Rich Repeat family protein Suppressor of lurcher protein 1 precursor, putativepan-1Lva, Cir, Lvl, Unc, WT-31Bm1_9390Hypothetical protein C2-HC type zinc finger protein C-e- C3Bm1_11340Hypothetical protein C2-HC type zinc finger protein C2-HC type zinc finger protein C3-HS 2035Hypothetical protein R05D11.7Emb, Unclassified, WT Let, Emb, Lvl, Ste, Rup, Bmd, C0168.9-33Bm1_23370LD15209p, putative Canalytic domain containing protein Calatytic domain containing protein C3-HS 2035Hypothetical protein Rd-F0Aldicarb resistant, WT Right of the protein C13F10.7Emb, Unclassified, WT Let, Emb, UN, Ste, Rup, Bmd, C0168.9-34Bm1_23370LD15209p, putative Conserved hypothetical	-27	Bm1_00645	receptor mua-3 precursor, putative	mup-4	Larval Lethal-Early (L1/L2)
-27Bm1_56230GH25683p, putative M-phase phosphoprotein, mpp8, Helix-loop-helix DNA-binding domain containing proteinY57A10A.10Unclassified, WT-28Bm1_34245zgc:91831-relatedT09A5.8Emb, WT-28Bm1_34445zgc:91831-relatedhlh-4Pvl, Gro, WT-28Bm1_34445zgc:91831-relatedK01G5.8Unclassified, Gro, WT-28Bm1_34445Zinc finger, C2H2 type family protein Surfeit locus protein 6 containing proteinY56A3A.18Complex Phenotype, Lva, Emb, V1, Cassified, WT-30Bm1_11826hypothetical protein Surfeit locus protein 6 containing proteinZK546.14Cl31.4), WT, Gro-30Bm1_57145containing protein suppressor of lurcher protein 1 precursor, putativepan-1Lva, Cir, Lvl, Unc, WT-30Bm1_17070Leucine Rich Repeat family protein Suppressor of lurcher protein 1 precursor, putativepan-1Lva, Cir, Lvl, Unc, WT-31Bm1_9390Hypothetical protein C2-HC type zinc finger protein C-e- C3Bm1_11340Hypothetical protein C2-HC type zinc finger protein C2-HC type zinc finger protein C3-HS 2035Hypothetical protein R05D11.7Emb, Unclassified, WT Let, Emb, Lvl, Ste, Rup, Bmd, C0168.9-33Bm1_23370LD15209p, putative Canalytic domain containing protein Calatytic domain containing protein C3-HS 2035Hypothetical protein Rd-F0Aldicarb resistant, WT Right of the protein C13F10.7Emb, Unclassified, WT Let, Emb, UN, Ste, Rup, Bmd, C0168.9-34Bm1_23370LD15209p, putative Conserved hypothetical	-27	Bm1 43030	protein C18H9 7 putative	rov-1	Inclassified WT
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-28Bm1_41220containing protein zgc:91831-relatedhln-4PvI, Gro, WT-28Bm1_34445zgc:91831-relatedK0165.8Unclassified, Gro, WT-28Bm1_39315Zinc finger, C2H2 type family protein C32584-PB-relatedY56A3A.18ZK1248.11Unclassified, WT-30Bm1_11825hypothetical protein Surfeit locus protein 6 containing proteinF43D9.1Dpy, Lva, Emb, Unclassified, WT-30Bm1_15840protein proteinZK546.14Unclassified, WT-30Bm1_57145containing proteinZK546.14Unclassified, WT-30Bm1_57145containing protein <i>let-805</i> Prz, Sck, Emb, Lvl, Adl, Ste, WT-30Bm1_17070Leucine Rich Repeat family protein suppressor of lurcher protein 1 precursor, putative <i>pan-1</i> Lva, Cir, Lvl, Unc, WT-31Bm1_47600Prz, Sck, Emb, Lvl, Adl, Ste, WTContaining protein containing protein <i>cal-11</i> Unclassified, WT-32Bm1_1340Hypothetical protein C2-HC type zinc finger protein C.e- C2+HC type zinc finger protein, cutative <i>cal-12</i> Lon, Unclassified, WT-33Bm1_23370LD15209p, putativeC13F10.7Emb, WT-33Bm1_23370LD15209p, putativeC13F10.7Emb, WT-33Bm1_23305Hypothetical protein containing protein <i>ulp-4</i> WT, Gro-33Bm1_247300conserved hypothetical protein containing protein <i>ulp-4</i> WT-33Bm1_247300conserved hypothetical protein containing protein <i>cal</i>	-27	Bm1_34260		T09A5.8	Emb, WT
-28Bm1_34445zgc:91831-relatedK01G5.8Unclassified, Gro, WT-28Bm1_3315Zinc finger, C2H2 type family protein CG32584-PB-relatedY56A3A.18 ZK1248.11Complex Phenotype, Lva, Emb, Stp, Gro, WT-30Bm1_11825hypothetical protein Surfeit locus protein 6 containing proteinY56A3A.18 ZK546.14ZK1248.11-30Bm1_15840m-phase phosphoprotein-related Fibronectin type III domain containing proteinZK546.14 F54H5.3Dpy, Lva, Emb, Unclassified, WT-30Bm1_57145containing protein recursor, putative <i>ZK546.14</i> F54H5.3Unclassified, WT-30Bm1_17070Leucine Rich Repeat family protein suppressor of lurcher protein 1 precursor, putative <i>pan-1</i> sol-1Lva, Cir, Lvl, Unc, WT-31Bm1_47600precursor, putative C2-HC type zinc finger protein C.e- MyT1, putative <i>daf-12</i> conserved hypothetical protein, putativeC0168.9Lon, Unclassified, WT-32Bm1_38435 Bm1_280370LD15209p, putative conserved hypothetical protein catalytic domain containing proteinC13F10.7 cminEmb, Unc, WT-33Bm1_6640 Conserved hypothetical protein catalytic domain containing proteinUp-4 daf-7Aldicarb resistant, Egl, Pch, WT, Gro-33Bm1_6640 containing proteinC07H6.2 cab-1Gro, WT-34Bm1_27455Protein cab-1related Lectin C-type domain containing proteinC07H6.2 cab-1Gro, WT-33Bm1_27455Protein goosecoid,C19F1.1Emb, Unclassified, WT	~~	5 4 44000			
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-28Bm1_39315Zinc finger, C2H2 type family protein CG32584-PB-relatedY56A3A.18 ZK1248.11Stp, Gro, WT-30Bm1_3410CG32584-PB-relatedZK1248.11Unclassified, WT-30Bm1_11826hypothetical proteinF43D9.1Dpy, Lva, Emb, Unclassified, WT-30Bm1_15840proteinZK546.14(L3/L4), WT, Gro-30Bm1_57145Fibronectin type III domain containing protein <i>ZK546.14</i> Unclassified, WT-30Bm1_57145Containing protein protein <i>Jet-805</i> Prz, Sck, Emb, Lvl, Adl, Ste, WT-30Bm1_17070Leucine Rich Repeat family protein precursor, putative <i>pan-1</i> Lva, CIr, Lvl, Unc, WT-31Bm1_47600precursor, putative <i>sol-1</i> Unclassified, WT-31Bm1_19390Hypothetical protein containing protein containing protein containing protein c2-HC type zinc finger protein C.e- <i>daf-12</i> Lon, Unclassified, WT-32Bm1_38435putative <i>ekl-2</i> Emb, Unc, WT-33Bm1_0370LD15209p, putativec13F10.7Emb, Unc, WT-33Bm1_23370Conserved hypothetical protein catalytic domain containing protein conserved hypothetical protein daf-7MTHicarb resistant, Egl, Pch, WT, Gro-33Bm1_23370Protein cab-1related Lectin C-type domain containing proteinC07H6.2Gro, WT-33Bm1_27455Protein cab-1related Lectin C-type domain containing proteinC07H6.2Gro, WT-33Bm1_27455Protein cab-1related L	-28	Bm1_34445	zgc:91831-related	K01G5.8	Unclassified, Gro, WI
-28Bm1_39315Zinc finger, C2H2 type family protein CG32584-PB-relatedY56A3A.18 ZK1248.11Stp, Gro, WT-30Bm1_3410CG32584-PB-relatedZK1248.11Unclassified, WT-30Bm1_11826hypothetical proteinF43D9.1Dpy, Lva, Emb, Unclassified, WT-30Bm1_15840proteinZK546.14(L3/L4), WT, Gro-30Bm1_57145Fibronectin type III domain containing protein <i>ZK546.14</i> Unclassified, WT-30Bm1_57145Containing protein protein <i>Jet-805</i> Prz, Sck, Emb, Lvl, Adl, Ste, WT-30Bm1_17070Leucine Rich Repeat family protein precursor, putative <i>pan-1</i> Lva, CIr, Lvl, Unc, WT-31Bm1_47600precursor, putative <i>sol-1</i> Unclassified, WT-31Bm1_19390Hypothetical protein containing protein containing protein containing protein c2-HC type zinc finger protein C.e- <i>daf-12</i> Lon, Unclassified, WT-32Bm1_38435putative <i>ekl-2</i> Emb, Unc, WT-33Bm1_0370LD15209p, putativec13F10.7Emb, Unc, WT-33Bm1_23370Conserved hypothetical protein catalytic domain containing protein conserved hypothetical protein daf-7MTHicarb resistant, Egl, Pch, WT, Gro-33Bm1_23370Protein cab-1related Lectin C-type domain containing proteinC07H6.2Gro, WT-33Bm1_27455Protein cab-1related Lectin C-type domain containing proteinC07H6.2Gro, WT-33Bm1_27455Protein cab-1related L					Complex Phenotype I va Emb
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-33Bm1_03370LD15209p, putativeC13F10.7Emb, WT-33Bm1_28035Hypothetical proteinR05D11.7Egl, Gro, WT-33Bm1_23370catalytic domain containing proteinulp-4WT, Gro-33Bm1_47300conserved hypothetical proteindaf-7Aldicarb resistant, WT-33Bm1_06640containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1relatedcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WT	-32	Bm1 38435		taq-60	Aldicarb resistant. WT
-33Bm1_28035Hypothetical protein Ulp1 protease family, C-terminal catalytic domain containing protein conserved hypothetical protein Protein phosphatase inhibitorR05D11.7Egl, Gro, WT Dpy, aldicarb resistant, Egl, Pch, WT, Gro-33Bm1_23370catalytic domain containing protein conserved hypothetical protein Protein phosphatase inhibitorulp-4WT, Gro-33Bm1_06640containing protein containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1related Lectin C-type domain containingcab-1Aldicarb resistant, WT-34Bm1_27455protein homeobox protein goosecoid,T19E7.1Emb, Unclassified, WT		_	•	-	
-33Bm1_23370catalytic domain containing protein conserved hypothetical proteinulp-4 daf-7WT, Gro Aldicarb resistant, WT-33Bm1_47300conserved hypothetical protein protein phosphatase inhibitordaf-7Aldicarb resistant, WT-33Bm1_06640containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1related Lectin C-type domain containingcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WT		_			
-33Bm1_47300conserved hypothetical protein Protein phosphatase inhibitordaf-7Aldicarb resistant, WT-33Bm1_06640containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1related Lectin C-type domain containingcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WT			Ulp1 protease family, C-terminal		Dpy, aldicarb resistant, Egl, Pch,
-33Bm1_06640Protein phosphatase inhibitor containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1related Lectin C-type domain containingcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WTHomeobox protein goosecoid,Homeobox protein goosecoid,Correction				ulp-4	
-33Bm1_06640containing proteinC07H6.2Gro, WT-33Bm1_33205Protein cab-1relatedcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WTHomeobox protein goosecoid,Homeobox protein goosecoid,HomeoboxHomeobox	-33	Bm1_47300		daf-7	Aldicarb resistant, WT
-33Bm1_33205Protein cab-1relatedcab-1Aldicarb resistant, WT-34Bm1_27455proteinT19E7.1Emb, Unclassified, WTHomeobox protein goosecoid,Homeobox protein goosecoid,HomeoboxHomeobox	22	Dm1 06640			
-34 Bm1_27455 protein containing Homeobox protein goosecoid,		_	• ·		
-34 Bm1_27455 protein T19E7.1 Emb, Unclassified, WT Homeobox protein goosecoid,	-55	5111_33203			Autory resistant, WI
	-34	Bm1_27455		T19E7.1	Emb, Unclassified, WT
-34 Bm1_22440 putative <i>ceh-45</i> Emb, WT					
	-34	Bm1_22440	putative	ceh-45	Emb, WT

25	Dm1 50015	concerved hypothetical protein		Sto M/T Sto
-35 -36	Bm1_52815 Bm1_06130	conserved hypothetical protein	F45F2.10 <i>anc-1</i>	Ste, WT, Stp Mlt, Lvl, Gro, WT
-30 -36	Bm1_06130	Nuclear anchorage protein 1-related Nuclear anchorage protein 1-related	anc-1	Mit, Lvi, Gro, WT
-30	BIII_00130	Nuclear anchorage protein 1-related	anc-i	
-37	Bm1_29715	Hypothetical protein	lin-52	Lva, Egl, WT, Stp
•••		Serine/threonine protein		, _g.,, o.p
		phosphatase PP1 isozyme 1,		
-37	Bm1_18195	putative	C24H11.2	Aldicarb resistant, WT
-37	Bm1_37240	ephrin EFN-4, putative	efn-2	Unclassified, WT
				Spindle Elongation/Integrity
-38	Bm1_21825	hypothetical protein	W03A5.4	abnormal, Unclassified, WT
		cystatin-type cysteine proteinase		
-38	Bm1_56600	inhibitor CPI-2, putative	cli-1	Ste, WT
-39	Bm1_55355	Protein FAM34Arelated	acl-14	Emb, WT
-39	Bm1_21530	hypothetical protein	R11H6.5	Unclassified, WT
-39	Bm1 47345	3 exoribonuclease family, domain 2	F37C12.13	Lva, Emb, Larval Arrest-Early (L1/L2), Sterile F1, Ste, WT, Gro
-39	BIII1_47345	containing protein	F37C12.13	(LI/LZ), Sterlie F1, Ste, W1, GIO
-39	Bm1_38400	Conserved hypothetical protein, putative	Y37D8A.21	Lva, WT
-39	Bm1_13715	Fras1 protein-related	C48E7.6	Emb, WT
-39	Bm1_01555	hypothetical protein	dgn-1	Unclassified, WT
00	201000		ugn i	
-40	Bm1_56045	myosin-like protein, putative	anc-1	MIt, LvI, Gro, WT
-40		conserved hypothetical protein	F25C8.3	Slu, WT
	—	Phospholipase c like protein 1,		Pnm, Larval Arrest-Late (L3/L4),
-41	Bm1_11715	isoform b, putative	pll-1	WT
-42	Bm1_20785	hypothetical protein	ssl-1	Emb, WT
-42	Bm1_16705	conserved hypothetical protein	F37C12.2	Lva, Emb, WT
-42	Bm1_02455	WW domain containing protein	F13E6.4	Pvl, WT
				Larval Arrest-Early (L1/L2), Gro,
-42	Bm1_05345	WD-repeat protein 3related	F13H8.2	WT
		membrane-associated RING-CH		
-43	Bm1_46675	protein III, putative	Y57A10B.1	Unclassified, WT
40	D	membrane-associated RING-CH	04754.0	
-43	Bm1_43275	protein III, putative	C17E4.3	Emb, WT
40	D=1 40000	Fibronectin type III domain		First Manufactory defect M/T
-43	Bm1_12300	containing protein	ptp-3	Emb, Morphology defect, WT
-45	Bm1_23135	Hypothetical protein	acy-3	Unclassified, WT
-46	Bm1_20840	calcium-binding protein, putative	F59D6.7	
-47	Bm1_26685	F25C8.3 protein-related	F25C8.3	Slu, WT
-50	Bm1_54070	F25C8.3 protein-related	F25C8.3	Slu, WT
E1	Bm1 00005	Immunoglobulin I-set domain	kotn 1	Aldicarb registant Cro. M/T
-51	Bm1_02325	containing protein	ketn-1	Aldicarb resistant, Gro, WT
-52	Bm1 04865	DNA polymerase epsilon p17 subunit, putative	T26A5.8	Pnm, Emb, WT
-52	DIII1_04000		12043.0	1 IIII, LIIID, VV I

Previously identified targets are shown with bold identifiers. Manually added annotations are shown in italics. *B. malayi* pub locus and descriptions are from

Ghedin *et al.* [11]. *C. elegans* gene names and RNAi phenotypes are from Wormbase.