

## Supplemental Tables

### Subasic et al. (2015)

**Supplementary Table 1. Differential protein and mRNA expression of TargetScan predicted, MIRZA predicted and ALG-1 bound targets (from Grosswendt et al. 2014) in *mir-58.1*, *mir-80*; *mir-58.1* and *mir-80*; *mir-58.1*; *mir-81-82* mutants relative to wild-type.** Protein and mRNA abundance data are normalized to a group of 518 non-targets identified in three replicates of unfractionated SILAC experiment for which mRNA abundance was obtained. Top scoring (i) and alternative (ii) MIRZA predicted miRNA:mRNA hybrids for non-canonical miR-58 family targets are shown.

TargetScan targets	log2 fold change protein ( <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)	Protein quantification method	log2 fold change mRNA ( <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)
B0336.3	NA	0.27	NA	SILAC fractionated	0.17	0.49	0.62
C30B5.7	-1.24	0.76	5.38	SRM	0.86	0.34	0.78
C32E8.3	0.54	0.42	0.74	SILAC fractionated	0.25	0.52	1.24
C37H5.13	0.37	1.12	1.44	SILAC fractionated	0.30	1.03	1.27
C56G2.1	0.13	0.18	1.90	SRM	0.16	0.38	0.43
cah-5	0.27	0.47	0.82	SILAC fractionated	0.33	0.51	0.44
cgh-1	0.09	0.28	0.33	SILAC unfractionated	-0.17	0.98	0.97
cids-1	0.10	0.03	1.32	SRM	0.04	0.59	0.94
cra-1	0.14	-0.03	0.29	SILAC fractionated	0.44	0.57	0.43
daf-21	0.13	0.26	0.39	SILAC unfractionated	0.19	0.60	1.03
dnj-20	0.47	0.73	0.62	SILAC fractionated	0.71	1.18	1.12
dpy-28	0.49	1.17	1.23	SRM	0.58	1.32	1.53
elo-3	0.77	0.19	0.32	SILAC fractionated	0.26	0.52	0.74
F08G12.2	0.12	1.18	0.78	SILAC fractionated	0.04	0.27	0.59
F13D12.6*	0.30	0.66	-0.22	SRM	-0.01	0.40	0.42
F26B1.2	0.07	0.27	0.23	SILAC fractionated	-0.03	0.36	0.42
F27C1.2	1.19	1.68	1.14	SRM	0.48	0.86	1.32
F40F8.5*	1.33	1.32	4.03	SRM	0.17	0.48	0.79
F47B7.2	-0.54	-0.58	-1.13	SRM	0.04	0.16	0.16
F56D3.1	0.42	0.71	0.19	SRM	0.29	0.68	0.75
F58E10.3	-1.13	-0.93	-0.99	SILAC unfractionated	0.08	0.32	0.50
F59A3.3	0.51	0.65	0.23	SILAC fractionated	0.17	0.52	0.44
fkb-6	-0.52	-0.21	0.74	SILAC unfractionated	-0.31	0.59	1.19
flh-2	-0.91	1.46	-0.64	SRM	0.55	1.30	1.74

TargetScan targets	log2 fold change protein ( <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80; mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80; mir-58.1; mir-81-82</i> / WT)	Protein quantification method	log2 fold change mRNA ( <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80; mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80; mir-58.1; mir-81-82</i> / WT)
gfl-1	NA	1.14	NA	SRM	0.09	0.61	1.00
gpb-1	0.52	0.51	0.52	SILAC unfractionated	0.38	0.38	0.37
his-72	0.41	NA	NA	SILAC fractionated	0.39	0.96	1.37
hmg-1.1	0.32	0.26	NA	SILAC unfractionated	-0.01	0.55	0.97
hsp-1	0.08	0.17	0.22	SILAC unfractionated	-0.09	0.11	0.04
htz-1	0.34	0.54	0.69	SILAC fractionated	0.16	0.43	0.61
ife-3	0.24	0.65	0.65	SRM	0.09	0.61	0.66
isw-1	0.47	1.07	0.95	SRM	0.44	1.12	1.38
ivd-1	0.16	0.37	0.45	SILAC unfractionated	0.13	0.48	0.36
K08F4.2	-0.27	0.13	0.17	SILAC unfractionated	-0.08	0.46	0.58
lys-1	0.63	0.95	1.33	SILAC unfractionated	0.61	1.67	2.21
lys-2	0.44	0.74	0.31	SILAC fractionated	1.40	2.65	1.99
M28.8	0.51	-1.52	-0.33	SRM	0.03	-0.05	-0.07
mcm-3	0.08	-0.10	0.50	SILAC fractionated	0.30	0.80	0.93
mcm-7	0.41	-0.15	0.20	SILAC fractionated	0.12	0.42	0.84
mep-1	0.40	0.65	0.33	SILAC fractionated	0.25	0.73	0.97
osm-11	0.60	0.70	1.05	SILAC fractionated	0.24	0.15	0.99
pcn-1	0.18	1.07	0.98	SILAC fractionated	0.21	0.81	1.15
pgp-9	-0.11	0.98	1.10	SILAC fractionated	0.44	0.93	1.01
pqn-70	NA	0.48	NA	SILAC fractionated	-0.20	0.55	1.00
R09B3.3	-0.23	-0.41	-0.09	SILAC unfractionated	-0.08	0.41	0.51
R11A8.5	0.20	0.43	0.54	SRM	0.26	0.58	0.51
rnr-2	0.33	0.33	0.25	SILAC fractionated	0.71	0.96	1.16
rpa-1	0.52	1.28	1.56	SRM	0.45	0.89	1.04
rsp-1	0.24	0.41	0.50	SILAC fractionated	-0.05	0.29	0.32
snr-1	NA	0.45	0.45	SILAC fractionated	0.00	0.12	0.18
snr-3	0.24	0.78	0.50	SILAC unfractionated	-0.05	0.21	0.27
snr-6	0.32	0.72	1.06	SILAC unfractionated	-0.09	0.24	0.24
tag-170	0.25	0.58	0.47	SILAC fractionated	0.12	0.32	0.57
tag-297	-0.39	0.03	0.36	SILAC fractionated	-0.01	0.08	0.42
tag-342*	0.84	NA	1.92	SRM	-0.28	0.55	1.37
tag-72	0.65	0.39	0.51	SILAC fractionated	0.11	0.51	0.83
top-2	0.50	0.64	0.95	SILAC fractionated	0.12	0.93	1.15
ubq-1	0.16	0.16	0.32	SILAC unfractionated	0.29	0.60	0.77
unc-130	NA	NA	3.10	SRM	0.39	0.35	1.30
unc-45*	0.46	0.63	0.50	SRM	0.00	0.02	-0.03
vbh-1	-0.31	0.01	-0.37	SILAC fractionated	0.13	0.60	0.56
ZK418.9	0.79	1.55	0.76	SRM	0.20	0.57	0.69
ZK616.4	0.55	1.20	1.38	SRM	0.39	0.92	1.29

MIRZA non-canonical targets	MIRZA score non-canonical sites	miRNA	log2 fold change protein ( <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)	Protein quantification method	log2 fold change mRNA ( <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)
hmg-3	55.04	cel-miR-82	0.45	0.27	0.52	SILAC unfractionated	-0.50	0.65	0.72
alg-1	51.56	cel-miR-80	0.25	0.27	0.33	SILAC unfractionated	0.33	0.31	0.47
his-41	46.32	cel-miR-80	0.17	0.46	0.68	SILAC fractionated	0.65	1.42	2.13
K07H8.3	40.83	cel-miR-80	-0.26	-0.07	-0.20	SILAC unfractionated	-0.08	-0.05	-0.12
mhc-3	38.28	cel-miR-80	0.22	-0.02	-0.10	SILAC fractionated	0.03	-0.20	-0.40
C15C7.5	31.81	cel-miR-80	-0.41	-0.76	-0.46	SILAC unfractionated	-0.35	-0.66	-0.48
C56G2.7	30.93	cel-miR-80	-0.01	0.42	-0.03	SILAC unfractionated	-0.05	-0.13	-0.06
mec-7	29.23	cel-miR-82	0.51	0.30	0.47	SILAC unfractionated	0.45	0.27	0.27
F48E3.3	28.45	cel-miR-80	-0.06	-0.15	-0.14	SILAC unfractionated	0.18	-0.12	-0.28
lin-53	28.05	cel-miR-81	0.26	0.31	0.42	SILAC unfractionated	0.28	0.42	0.50
mrg-1	26.92	cel-miR-80	0.34	0.61	0.57	SILAC unfractionated	0.23	0.63	0.76
dcap-1	26.33	cel-miR-80	0.43	0.27	0.44	SILAC unfractionated	0.01	0.24	0.41
lst-3	26.14	cel-miR-80	0.62	0.85	1.15	SILAC unfractionated	-0.02	0.45	0.51
cyn-7	25.13	cel-miR-80	-0.29	0.14	0.15	SILAC fractionated	-0.21	-0.05	-0.09
mcm-2	23.38	cel-miR-82	-0.20	0.12	0.40	SILAC unfractionated	0.32	0.78	0.74
K10D3.4	23.02	cel-miR-82	-0.05	-0.21	-0.13	SILAC unfractionated	0.59	0.70	0.60
dnl-11	22.42	cel-miR-80	-0.31	-0.07	-0.20	SILAC unfractionated	0.00	0.22	0.12
cpf-2	22.12	cel-miR-80	0.35	0.39	0.77	SILAC unfractionated	-0.07	0.30	0.50
nas-37	21.41	cel-miR-82	-0.05	-0.05	-0.13	SILAC unfractionated	0.69	0.76	0.51
icd-1	21.39	cel-miR-80	0.25	0.48	0.12	SILAC fractionated	0.07	0.02	0.35
F13C5.2	20.48	cel-miR-80	1.07	0.61	1.17	SILAC unfractionated	0.10	0.12	0.40
F58B3.6	20.08	cel-miR-80	0.66	0.63	0.50	SILAC unfractionated	0.42	0.45	0.77
lpr-4	19.11	cel-miR-58	0.44	0.10	-0.30	SILAC unfractionated	0.69	1.13	1.21
hmg-4	18.76	cel-miR-80	0.45	0.27	0.52	SILAC unfractionated	0.46	0.89	1.11
C25A1.4	18.14	cel-miR-80	-0.43	-0.03	-0.15	SILAC unfractionated	-0.02	0.24	0.28
emb-5	17.59	cel-miR-80	-0.35	-0.08	0.23	SILAC unfractionated	0.50	0.73	0.80
lam-2	17.42	cel-miR-58	0.36	0.26	0.51	SILAC unfractionated	0.52	0.69	0.56
his-24	17.29	cel-miR-80	0.83	0.30	1.00	SILAC unfractionated	0.01	1.16	1.27
C05G5.4	17.21	cel-miR-80	-0.04	0.13	0.22	SILAC fractionated	0.05	-0.09	-0.21
B0495.7	17.12	cel-miR-80	-0.24	-0.12	-0.24	SILAC fractionated	-0.06	-0.25	-0.28
math-33	16.49	cel-miR-82	0.30	0.35	0.23	SILAC unfractionated	0.30	0.69	0.74
myo-2	15.64	cel-miR-80	0.24	0.03	0.06	SILAC fractionated	0.19	0.27	0.10
H34C03.2	15.33	cel-miR-58	-0.21	-0.25	-0.31	SILAC unfractionated	0.23	0.47	0.38
mbf-1	14.99	cel-miR-82	-0.42	-0.17	-0.05	SILAC unfractionated	-0.28	-0.34	-0.23
abcf-2	14.95	cel-miR-58	-0.20	-0.09	-0.33	SILAC unfractionated	0.23	0.38	0.67
csn-4	14.43	cel-miR-80	-0.10	0.49	0.42	SILAC unfractionated	0.05	0.16	0.17
ile-2	14.43	cel-miR-82	0.03	-0.28	-0.26	SILAC unfractionated	-0.11	-0.27	-0.27
nex-2	13.60	cel-miR-80	0.24	0.44	0.51	SILAC unfractionated	0.35	0.81	1.32
F37C4.5	13.45	cel-miR-80	0.17	0.23	0.29	SILAC fractionated	-0.24	-0.04	0.16
F09G2.9	13.09	cel-miR-80	0.13	0.43	0.06	SILAC unfractionated	-0.27	0.16	0.26
H13N06.4	12.99	cel-miR-58	0.21	0.71	0.90	SILAC unfractionated	0.23	0.44	0.49
elb-1	12.97	cel-miR-80	0.08	-0.12	-0.20	SILAC unfractionated	-0.01	-0.04	0.04

MIRZA non-canonical targets	MIRZA score non-canonical sites	miRNA	log2 fold change protein ( <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80; mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80; mir-58.1; mir-81-82</i> / WT)	Protein quantification method	log2 fold change mRNA ( <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80; mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80; mir-58.1; mir-81-82</i> / WT)
F33D11.10	12.65	cel-miR-80	0.05	0.15	0.29	SILAC unfractionated	0.38	0.59	0.74
H17B01.4	12.14	cel-miR-82	0.66	0.15	0.50	SILAC unfractionated	0.12	0.27	0.22
C18B2.5	12.13	cel-miR-80	0.32	-0.28	-0.13	SILAC unfractionated	0.10	-0.43	-0.37
F30H5.3	12.00	cel-miR-80	-0.14	-0.55	-0.40	SILAC unfractionated	0.50	0.59	0.60
K12H4.3	11.93	cel-miR-82	-0.24	-0.37	-0.40	SILAC unfractionated	0.12	-0.03	-0.02
eif-6	11.82	cel-miR-80	-0.11	-0.01	-0.18	SILAC fractionated	-0.17	-0.18	-0.17
emb-4	11.51	cel-miR-80	0.32	0.16	0.41	SILAC unfractionated	0.36	0.57	0.41
mpk-1	11.27	cel-miR-58	1.15	1.03	0.71	SILAC unfractionated	0.26	0.61	0.72
haf-9	11.09	cel-miR-82	0.09	-0.03	0.18	SILAC unfractionated	0.19	-0.36	-0.43
ftt-2	10.94	cel-miR-80	0.42	0.36	0.49	SILAC fractionated	0.23	0.19	0.34
grd-14	10.94	cel-miR-80	-0.38	-0.23	0.66	SILAC unfractionated	-0.50	-0.87	-1.22
gst-1	10.90	cel-miR-81	0.07	0.00	0.22	SILAC fractionated	0.16	0.12	0.18
nmt-1	10.73	cel-miR-82	0.32	0.34	0.11	SILAC fractionated	-0.02	0.04	0.02
hum-4	10.38	cel-miR-80	-0.21	-0.02	-0.12	SILAC unfractionated	0.59	0.26	0.03
ifd-1	10.19	cel-miR-58	0.35	-0.06	0.20	SILAC unfractionated	0.37	-0.67	-0.67
F58G11.2	10.06	cel-miR-80	0.02	0.29	0.52	SILAC unfractionated	0.25	0.71	1.00

ALG-1 bound targets	Sequence read number miRNA:mRNA chimeras	log2 fold change protein ( <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change protein ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)	Protein quantification method	log2 fold change mRNA ( <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> / WT)	log2 fold change mRNA ( <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i> / WT)
alg-1	10	0.25	0.27	0.33	SILAC unfractionated	0.33	0.31	0.47
cts-1	6	0.15	0.27	0.26	SILAC fractionated	0.11	0.10	-0.04
dnlj-20	6	0.47	0.73	0.62	SILAC unfractionated	0.71	1.18	1.12
eef-1A.2	17	-0.03	0.16	0.13	SILAC fractionated	NA	NA	NA
F44E5.4	48	-0.05	0.06	0.16	SILAC fractionated	NA	NA	NA
F57B10.3	8	-0.20	-0.26	0.02	SILAC fractionated	0.33	0.02	-0.05
gei-7	6	0.05	-0.33	-0.72	SILAC fractionated	0.32	0.51	0.58
gpd-2	44	0.29	0.42	0.33	SILAC fractionated	0.36	0.46	0.48
gpd-3	7	0.29	0.42	0.33	SILAC fractionated	0.20	-0.04	-0.20
gst-1	14	0.01	0.24	0.39	SILAC fractionated	0.16	0.12	0.18
his-24	6	0.83	0.30	1.00	SILAC unfractionated	0.01	1.16	1.27
hmg-1.1	9	0.23	0.58	0.88	SILAC unfractionated	-0.01	0.55	0.97
inf-1	6	0.08	0.06	0.20	SILAC fractionated	-0.01	-0.15	-0.30
R05G6.7	6	0.14	0.21	0.31	SILAC fractionated	-0.05	-0.21	-0.30
T21C9.3	7	0.26	0.25	0.74	SILAC unfractionated	0.21	0.31	0.16
ubq-1	8	0.16	0.16	0.32	SILAC fractionated	0.29	0.60	0.77
clec-1	62	NA	NA	NA	NA	0.25	1.10	2.52
B0361.9	11	NA	NA	NA	NA	0.48	0.73	2.14
nhr-19	6	NA	NA	NA	NA	0.62	0.81	1.39
lin-1	6	NA	NA	NA	NA	0.47	1.00	1.34
K02D7.5	7	NA	NA	NA	NA	0.17	0.90	1.27
mnk-1	11	NA	NA	NA	NA	0.50	0.97	1.21
nipi-3	9	NA	NA	NA	NA	0.58	0.57	1.13
C39E9.8	7	NA	NA	NA	NA	0.01	0.18	1.09
cki-2	6	NA	NA	NA	NA	-0.10	0.69	1.02
F46G10.2	6	NA	NA	NA	NA	0.33	0.65	1.01
C06G8.1	6	NA	NA	NA	NA	0.61	1.57	0.98
lgg-1	7	NA	NA	NA	NA	0.14	0.41	0.91
C50B8.1	10	NA	NA	NA	NA	0.03	0.59	0.88
ZK470.2	25	NA	NA	NA	NA	0.23	0.61	0.88
W09D10.4	6	NA	NA	NA	NA	0.45	0.66	0.67
epc-1	7	NA	NA	NA	NA	0.32	0.54	0.60
F55H12.2	20	NA	NA	NA	NA	-0.40	0.20	0.59
F57G12.1	12	NA	NA	NA	NA	0.57	0.38	0.53
mdl-1	7	NA	NA	NA	NA	0.26	0.30	0.50
F18E3.11	39	NA	NA	NA	NA	-0.26	0.56	0.38
col-98	12	NA	NA	NA	NA	0.08	0.51	0.36
ZK822.5	7	NA	NA	NA	NA	0.23	0.34	0.21
F18E3.12	48	NA	NA	NA	NA	-0.80	0.35	0.21
F18E3.13	97	NA	NA	NA	NA	-0.16	0.38	-0.11
B0410.3	8	NA	NA	NA	NA	-0.41	-0.69	-1.24

i) Top scoring MIRZA predicted miRNA:mRNA hybrids for non-canonical miR-58 family targets (MIRZA score> 10)

MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid	MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid
hmg-3	cel-miR-82	55.044	UGAGAUCAUCGUGAAAGCCAG #       000^   0000  tctctagata--cttcattc	B0495.7	cel-miR-80	17.1218	UGAGA-UCAUUAGUUGAAAGCC      v   0^~~~~   ## actcttagtg----tttctt
alg-1	cel-miR-80	51.5597	UGA--GAUCAUU-----AGUUGAAAGCC    vv     00vvvvvv     ^## actgtctagttcgccattcaact-tctt	math-33	cel-miR-82	16.4945	UGAGA----UCAUCGUG-AAAGCCAG      vvvvv   00000v    ## actcttggtagtatattgttcgtca
his-41	cel-miR-80	46.3171	UGAGAUCAUUAGUUGAAAGCC #       ^~~~~   ## tctctag----aactttat	myo-2	cel-miR-80	15.6359	UGAG-----AUCAUUAGUUGAAAGCC    vvvvvvvvv    0^~~   ^## actcttcacagcttagtt--aact-tcgt
K07H8.3	cel-miR-80	40.8287	UGAGAUCAUUAGUUGAAAGCC #       00000^   ## tctctaggagg--actttccc	H34C03.2	cel-miR-58.1	15.3293	UGAGA-UCGUUCAGUACGGCAA #     v   00000   000^  cctcttagcaaaggatgggc-t
mhc-3	cel-miR-80	38.2805	UGAGAUCAUUAGUUGAA--AGCC        0000000000vv  # actctaggttataatgaatctg	mbf-1	cel-miR-82	14.9852	UGAGAU---CAUCGUGAAAGCCAG #     vvv   0^~~   0000  tctctatgggtt--ctttgtcc
C15C7.5	cel-miR-80	31.808	UGA--GAUCAUUAGUUGAAAGCC #  vv     0000   ## gcttgctagttcgaactttct	abcf-2	cel-miR-58.1	14.9544	UGAGAUUCGUUCAGUACGGCAA #     0000000000000  cctttatcatttattctttgt
C56G2.7	cel-miR-80	30.9346	UGAGAUCAUUAGUUGAA---AGCC        00^~~   Ovvvv  # actctaggtt---actcgagctcaa	csn-4	cel-miR-80	14.4302	UGAGA--UCAUUAGUUGAAAGCC      vv   000^~~   ## actctaaagtgtt---cttttt
mec-7	cel-miR-82	29.2335	UGAGAUCAUCGUGAAAGCCA--G        00000   0000vv  acttttaggggtacttttttc	ile-2	cel-miR-82	14.4301	UGAG---AUCAUCGUGAAAGCCAG     vvvv   0^~~   00  # actcattttagttt---tttttagtg
F48E3.3	cel-miR-80	28.4489	UGAGA-UCAUUAGUUGAAAGCC      v   00000000^  # actctcagtagtaaaag-tctt	nex-2	cel-miR-80	13.5975	UGAGAU--CAUUAG---UUGAAAGCC      vv   0000vvvv    ## actctaacctacaataattttac
lin-53	cel-miR-81	28.0462	UGAGAU-CAUCGUGAAAGCUAG       v  ^~~   0^  # actctacgt----ttta-att	F37C4.5	cel-miR-80	13.4549	UGAGAUCAUUAGUUGAAAGCC ##     0000^~~   ## tgtctagttcaa---tttcgc
mrg-1	cel-miR-80	26.9247	UGAGA-UCAUUAGUUGAAAGCC      v   00000000^  # actcttagtataagtaa-tctt	F09G2.9	cel-miR-80	13.0886	UGAGAUCAUUAGUUGAAAGCC      00000000   ## actctaactaaatctttctg

MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid	MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid
dcap-1	cel-miR-80	26.3301	UGAG--AUCAUUAGUUGAAAGCC     vv    00000000  ## actctata>tagttatccctctg	H13N06.4	cel-miR-58.1	12.9886	UGAGAUCGUUCAGUACGGCAA #     000^^^   ## gctctagact---tgcctta
			UGAGAUCAUUAGUUGAAAGCC ##       0   0^  ## tatcttagtaattaaca-tctc				UGAGAUCAUUAGUUGAA-AGCC #     00000   00v  ## tctctagatgagaacacacctgg
			UGA-GAUCAUUAGUUGAAAGCC    v    000^   ## actactagtctt--actttttc				UGAGAUCAUUAGUUGAAAGCC #     0^^^   0^  ## cctctaga---aaca-tctt
mcm-2	cel-miR-82	23.3802	UGAG-AUCAUC----GUGAAAGCCAG     v    00vvvvvv     0000  actcatagtcgtgcacttttagcc	H17B01.4	cel-miR-82	12.1383	UGAGAUCAUCGUGAAAGCCAG      0000^   000^  actctaaaag---tttacc-c
			UGAGAUCAUCGUGAAAGCCAG      000^   00^   actctaccg---ctttt--c				UGAGAUCAUUAGUUGAAAGCC #     0000^   000^  ## cctctaattt--aactttgg-
			UGAGAUCAUUAGUUGAAAGCC #     00^   0000^## gctctatg---aactttgct				UGAGAU-----CAUUAGUUGAAAGCC #     vvvvvvvvvvvvvv 0000    ## tctctacgtttgtccagtagtgtaacaactttctt
cpf-2	cel-miR-80	22.1156	UGAGAUCAUUAG----UUGAAAGCC        00000vvvv    ^    gctctaggatataatgaact---g	K12H4.3	cel-miR-82	11.9265	UGAGAUCAUCGUGAAAGCCAG      00^   00  # actctatt----ttttagtt
			UGAG---AUCAUCGUGAAAGCCAG     vvvv    0000000000^  actcgatatgtttcacacccc-c				UG--AGAUCAUUAGUUGAAAGCC   vv     0000000^  ## accatctatgttttta--tcac
			UGAGA-UCAUUAGUUGAAAGCC #    v   ^   ## tctctaagt---aacttttag-				UGAGAUCAUUAGUUGAA-AGCC ##     0000   0v  ## --tctagatattaaactactctc
F13C5.2	cel-miR-80	20.4756	UGAGA-UCAUUAGUUG-AAAGCC      v   0000000v    ## actctaagtattatgttttc--	mpk-1	cel-miR-58.1	11.2676	UGAGAUCGUUCAGUACGGCAA #     000000000000  cctctagggtgtatcctact

MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid	MIRZA non-canonical target	miRNA	MIRZA score non-canonical sites	miRNA:mRNA hybrid
F58B3.6	cel-miR-80	20.0799	UGAGAUCAUUAG-----UUGAAAGCC ##      0000vvvvvvvvv       ## aatctagtcgttatattatgttactttctc	haf-9	cel-miR-82	11.0937	UGAGAUCAUCGUGAAAGCCAG ##      0^/^     ^#  tacatgtt--cttt--gta
lpr-4	cel-miR-58.1	19.1121	UGAGAUCCGUUCA-GUACGGCAA #      000000v       ## gctctactgtcagcatgccgcg	fft-2	cel-miR-80	10.9392	UGAGAUCAUUAGUUGAAAGCC #     ^~~~~       ## gctcta----aactttccc
hmg-4	cel-miR-80	18.7634	UGAGA---UCAUUAG--UUGAAAGCC      vvv   0000vv   0000  actctataagtctgttgaactctatg	grd-14	cel-miR-80	10.9377	UGAGAUCAUUAGUUGAAAGCC #      000^   ## tttctagaac--aacttttca
C25A1.4	cel-miR-80	18.1354	UGAGAUCAUUAGUUGAA-AGCC       0000^   Ov   ## actctaaggc--aactgttccct	gst-1	cel-miR-81	10.8979	UGAGA-UCAUCGUGAAAGCUAG #     v   0000^   ## tctctaagtaacc--ttcgaaa
emb-5	cel-miR-80	17.5873	UGAGAUCAUUAGUUGAAAGCC ##      000^   O   ## aatctagtagc-aactatctg	nmt-1	cel-miR-82	10.7266	UGAGAU---CAUCGU-GAAAGCCAG #     vvv   0000v    ^    cctctatatagttttgcttt--c
Iam-2	cel-miR-58.1	17.4233	UGAGA--UCGUUCAGUACGGCAA      vv   000000000^  actctaaaggctatttttt--t	hum-4	cel-miR-80	10.3795	UGAGAUCAU-----UAGUUGAAAGCC       000vvvvvvvvv       ## actctactcaataacttatcaatttcga
his-24	cel-miR-80	17.292	UGAGAUCAUUAGUUGAAAGCC #      00000000^  ## cctctaggctattcaa-tcta	ifd-1	cel-miR-58.1	10.1916	UGAG-AUCGUUCAGUACGGCAA #   v   0^   0000^  gctcgttagcgc--cattgtt-t
C05G5.4	cel-miR-80	17.2105	UGAGA--UCAUUAG---UUGAAAGCC #    vv   0000vvv       ## tctcttcagtatcttataacttaat	F58G11.2	cel-miR-80	10.0617	UGA--GAUCAUUAG---UUGAAAGCC    vv     0000vvv     0 ## actaacttagtacggcttaactattaa

ii) Alternative MIRZA predicted miRNA:mRNA hybrids for non-canonical miR-58 family targets (when applicable)

**Supplementary Table 2. Categorization of TargetScan predicted targets in seven groups based on differential mRNA abundance in *mir-58.1*, *mir-80*; *mir-58.1* and *mir-80*; *mir-58.1*; *mir-81-82* mutants relative to wild-type**

Target category	Target number
Additively upregulated targets	93
Synergistically upregulated targets	19
Shared miR-58.1, miR-80 targets	34
Shared miR-58.1, miR-81, miR-82 targets	47
Shared miR-80, miR-81, miR-82 targets	79
miR-58.1 specific targets	24
miR-80 specific targets	17
miR-81, miR-82 targets	12
Total targets > 1.3 fold upregulated in <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i>	325
Non-responsive predicted targets < 1.3 fold upregulated in <i>mir-80</i> ; <i>mir-58.1</i> ; <i>mir-81-82</i>	270

Full table can be accessed in the supplementary online material.

**Supplementary Table 3. Comparison of differential protein and mRNA expression of 63 TargetScan predicted targets identified by unfractionated SILAC, fractionated SILAC, SRM and transcriptome profiling in *mir-58.1*, *mir-80*; *mir-58.1* and *mir-80*; *mir-58.1*; *mir-81-82* mutants relative to wild-type.**

Targets are grouped based on the response of protein and RNA levels in the respective mutants to those that are regulated at the level of translational inhibition and mRNA degradation. Protein and mRNA abundance data are normalized to a group of 518 non-targets identified in three replicates of unfractionated SILAC experiment for which mRNA abundance was obtained.

Category	Differential expression boundaries	Target number in <i>mir-58.1</i>	Target number in <i>mir-80; mir-58.1</i>	Target number in <i>mir-80; mir-58.1; mir-81-82</i>
1	log2 fold change protein > 0.05, log2 fold change mRNA < 0.05	10	1	2
2	log2 fold change protein (P) > log2 fold change mRNA (R); P, R > 0	18	20	15
3	log2 fold change protein = log2 fold change mRNA (0.1 fold tolerance)	14	12	10
4	log2 fold change mRNA > log2 fold change protein	11	26	30
5	log2 fold change protein, log2 fold change mRNA < 0.05	5	1	1
6	NA	5	3	5

Differential expression boundaries	Target response in <i>mir-58.1</i> (%)	Target response in <i>mir-80; mir-58.1</i> (%)	Target response in <i>mir-80; mir-58.1; mir-81-82</i> (%)
log2 fold change protein (P) > log2 fold change mRNA (R)	48.28	35.00	29.31
Translational Inhibition (P > 0.05, R < 0.05)	17.24	1.67	3.45
Concordant protein and mRNA (P=R)	24.14	20.00	17.24
log2 fold change protein (P) < log2 fold change mRNA (R)	18.97	43.33	51.72

Full table can be accessed in the supplementary online material.

**Supplementary Table 4. Differential expression comparing 1) abundances of all quantified proteins in unfractionated SILAC, fractionated SILAC and SRM, 2) abundances of all transcripts quantified in transcriptome profiling experiment and qRT-PCR and 3) abundances of all small RNAs quantified in small RNA profiling experiment, between miR-58 family mutants and wild-type**

Full table can be accessed in the supplementary online material.

**Supplementary Table 5.** Primers used for miR-58 family target and *egl-1* induction qRT-PCR and miRNA qRT-PCR experiments

Gene public name	Gene sequence name	Group	Primer_forward	Sequence Forward	Primer_reverse	Sequence Reverse
bcs-1	F54C9.6	Random	F54C9.6_F	gaaaggacacttgtatgtacaga	F54C9.6_R	tgtccctccaggatcacaaca
R12E2.11	R12E2.11	Random	R12E2.11_F	tgc当地tcgc当地agata	R12E2.11_R	tcggcatctcg当地tgc当地
F28A12.4	F28A12.4	Random	F28A12.4_F	gggacatggatggacac	F28A12.4_R	tctttggcc当地tttgg
pmt-2	F54D11.1	Random	F54D11.1_F	cgagaacgtt当地caagaatctataa	F54D11.1_R	ccatacattgtatgagcac
F32D1.5	F32D1.5	Random	F32D1.5_F	cttc当地ggacatgtca	F32D1.5_R	ctc当地ggtagaacaatgg
rps-10	D1007.6	Random	D1007.6_F	gctctt当地cagatgtatgt	D1007.6_R	tctccctt当地cgcttg
C48B4.8	C48B4.8	Random	C48B4.8_F	gatgtggacatgttaatttt	C48B4.8_R	ggattatggacacaatgacgt
F45H10.2	F45H10.2	Random	F45H10.2_F	cctacgtctggatgtgg	F45H10.2_R	ggctggattt当地cggtt
F13G3.10	F13G3.10	Random	F13G3.10_F	aaacaacaggatggacaca	F13G3.10_R	catctt当地ctctatgtgtcg
Y69E1A.2	Y69E1A.2	Random	Y69E1A.2_F	gagaacccgtatgggt	Y69E1A.2_R	tccgttatgtgaccacgaga
smg-4	F46B6.3a	Random	F46B6.3a_F	ccgaaatcgatccatga	F46B6.3a_R	gccgtgtatcggttcc
F39H2.3	F39H2.3	Random	F39H2.3_F	aaaaatgaaaatggcgac	F39H2.3_R	tgaggcagatcaccgttgc
crn-1	Y47G6A.8	Random	Y47G6A.8_F	cgatctt当地gatcatcaa	Y47G6A.8_R	tcacgagcaccgttgc
ran-1	K01G5.4	Random	K01G5.4_F	ttgactt当地ggatgtcg	K01G5.4_R	tgtggaaagacaatgtgg
F17C8.3	F17C8.3	Random	F17C8.3_F	gtc当地ggagatgt	F17C8.3_R	ctttccatattctgtgg
Y66H1A.4	Y66H1A.4	Random	Y66H1A.4_F	ccaccaggaaatgtgt	Y66H1A.4_R	gcaaaatcatctgg
F35G12.2	F35G12.2	Random	F35G12.2_F	ctcatattcgccacttct	F35G12.2_R	acgttgc当地atctgtt
elo-1	F56H11.4	Random	F56H11.4_F	aaccatggccaaaaggaa	F56H11.4_R	tgggtcaacaatgtgg
cey-1	F33A8.3	Random	F33A8.3_F	aatggccgaaaaacgac	F33A8.3_R	tttgc当地tctgg
dad-1	F57B10.10	Random	F57B10.10_F	ctcgctgtacattccatt	F57B10.10_R	acttgc当地tgg
C32E8.3	C32E8.3	Random	C32E8.3_F	ctggaaaatctcgacaa	C32E8.3_R	gtcgaaatggccctt
col-167	T10E10.2	Random	T10E10.2_F	aggaggatggcaccatg	T10E10.2_R	aagacaggcaacgaaaa
rpa-1	F18A1.5	TargetScan	F18A1.5_F	ccacaatccggaaatctt	F18A1.5_R	cgtatgtgtccatgtt
isw-1	F37A4.8	TargetScan	F37A4.8_F	ttatcattatcgcaagatcg	F37A4.8_R	cttc当地ggaaatcc
tag-342	B0464.8	TargetScan	B0464.8_F	gctcaagttt当地cgat	B0464.8_R	ccttctgggattt
F40F8.5	F40F8.5	TargetScan	F40F8.5_F	agacgtt当地ggatgt	F40F8.5_R	agatctacgacgacatgtt
unc-130	C47G2.2	TargetScan	C47G2.2_F	atgaagacggcgtt	C47G2.2_R	tttccgtt当地ggatgt
C30B5.7	C30B5.7	TargetScan	C30B5.7_F	ttgtactt当地atcgaa	C30B5.7_R	ccatccagaatgtgg
ife-3	B0348.6a	TargetScan	B0348.6a_F	ggttgtt当地gataagaa	B0348.6a_R	tcgtcaatttcttcca
F13D12.6	F13D12.6	TargetScan	F13D12.6_F	actgacaatcggttca	F13D12.6_R	ccgatggcccttca
unc-45	F30H5.1	TargetScan	F30H5.1_F	cgtatctt当地ctgg	F30H5.1_R	atggctt当地caac
F27C1.2	F27C1.2a	TargetScan	F27C1.2a_F	acaaatcatcgatgg	F27C1.2a_R	tgttgc当地gtgg
R11A8.5	R11A8.5	TargetScan	R11A8.5_F	cgatcgtactcgac	R11A8.5_R	agaatttt当地ggatgt
C56G2.1	C56G2.1a	TargetScan	C56G2.1a_F	tgaggatgagaagac	C56G2.1a_R	tttgtcgatgtgg
ZK616.4	ZK616.4	TargetScan	ZK616.4_F	ggttt当地ctgtgg	ZK616.4_R	tggatttt当地acatgt
cids-1	C02F5.4	TargetScan	C02F5.4_F	tggccaaaatgaa	C02F5.4_R	cgcgtt当地gtcg

Gene public name	Gene sequence name	Group	Primer_forward	Sequence Forward	Primer_reverse	Sequence Reverse
hmg-1.1	Y48B6A.14	TargetScan	Y48B6A.14_F	gtcgaaatggggaaaactcac	Y48B6A.14_R	tcgacttcgtatcttcttatcg
F47B7.2	F47B7.2a	TargetScan	F47B7.2a_F	accgcatacgaaaaagag	F47B7.2a_R	ccaagatgaatgcataaacactcc
dpy-28	Y39A1B.3	TargetScan	Y39A1B.3_F	gaaccatttgtactttatga	Y39A1B.3_R	cacgttcaaggggttg
F56D3.1	F56D3.1	TargetScan	F56D3.1_F	ggatcggttcccagaag	F56D3.1_R	cccagcatgaaagctattaagagta
gfl-1	M04B2.3	TargetScan	M04B2.3_F	aacaggcattttaaatgatattg	M04B2.3_R	tcacggaggcttctatttcg
ZK418.9	ZK418.9a	TargetScan	ZK418.9a_F	ggccacttgtccatggaaaata	ZK418.9a_R	tgcggacttctgtatgattt
M28.8	M28.8	TargetScan	M28.8_F	gtgatgttgcataactacaga	M28.8_R	attgggttgcaccaattc
F59F5.7	F59F5.7	TargetScan	F59F5.7_F	ccaaaggaaatgactttttatag	F59F5.7_R	gaacaatgcacttgtcgaga
flh-2	C26E6.2	TargetScan	C26E6.2_F	ccgaagaactgcattttatga	C26E6.2_R	ttgcattgttgcgttga
pgk-1	T03F1.3	Normalization control	T03F1.3_F	gcgatattatgtcaatgtcgcttc	T03F1.3_R	tgagtgcgcactccaacca
cdc-42	R07G3.1	Normalization control	R07G3.1_F	ctgtggacaggaagattacg	R07G3.1_R	ctcgacattctgaatgaag
Y45F10D.4	Y45F10D.4	Normalization control	Y45F10D.4_F	gtcgcttcaatcagtccgc	Y45F10D.4_R	gttctgtcaagtgtatccgaca
mpk-1	F43C1.2	Normalization control	F43C1.2_F	tgcctcgtatcgccatttgc	F43C1.2_R	tccaacaactgcacaaatcaa
tbp-1	T20B12.2	Normalization control	T20B12.2_F	ttggatttgcataatgttcatttgc	T20B12.2_R	aatgactgtcgaaacgttt

cDNA stem loop RT primers	Sequence	qRT-PCR primers	Sequence
miR-58.1	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGATTGCCGT	miR-58.1_F	ACACTCCAGCTGGGTGAGATCGTTAGTAC
miR-80	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGTCGGCTTT	miR-80_F	ACACTCCAGCTGGGTGAGATCATTAGTTGAA
miR-81	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGACTAGCTT	miR-81_F	ACACTCCAGCTGGGTGAGATCATCGTGAAA
miR-82	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGACTGGCTT	miR-82_F	ACACTCCAGCTGGGTGAGATCATCGTGAAA
miR-52	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGGCTACCCT	miR-52_F	ACACTCCAGCTGGCACGTTACAATGAAAG
miR-250	CTCAACTGGTGTGAGTCGGCAATTCAAGTTGAGGCCAACAG	miR-250_F	ACACTCCAGCTGGGAATCACAGTCAACT
		Universal reverse	CTCAAGTGTGAGTCGGCAA

Gene public name	Gene sequence name	Group	Primer_forward	Sequence Forward	Primer_reverse	Sequence Reverse
pgk-1	T03F1.3	Normalization control	T03F1.3_F	gcgatattatgtcaatgtcgcttc	T03F1.3_R	tgagtgcgcactccaacca
cdc-42	R07G3.1	Normalization control	R07G3.1_F	ctgtggacaggaagattacg	R07G3.1_R	ctcgacattctgaatgaag
Y45F10D.4	Y45F10D.4	Normalization control	Y45F10D.4_F	gtcgcttcaatcagtccgc	Y45F10D.4_R	gttctgtcaagtgtatccgaca
egl-1	F23B12.9	CEP-1 activation assay	F23B12.9_F	ttctcaatttgcgcacact	F23B12.9_R	ggagccgatctcgtagcc

**Supplementary Table 6. List of all transitions used for selected reaction monitoring of target and random group in various miR-58 family mutants and wild-type**

Full table can be accessed in the supplementary online material.

**Supplementary Table 7: Sequences of wild-type and mutated 3'UTRs used in dual luciferase reporters.**

Gene ID	Gene name	# of sites	Sequence (WT)	Sequence (MUT)	TargetScan predicted specificity
C30B5.7	C30B5.7	1	TCTCAAAATACAACCTTACCTTCAGTTTACTGCTATTGATAATGTTTAAATTAAATTCTTCC CCAAAATCGAAATCGATCTCTGACCTGTATTAGTCAAAGTGACATTACACTGGTCTATTGCTT GTGATTATCATCTGTATTTCATCTGTCAAATCCGTACAATAAAATTTATATGAGG	TCTCAAAATACAACCTTACCTTCAGTTTACTGCTATTGATAATGTTTAAATTAAATTCTTCC CCAAAATCGTATTAGTCAAAGTGACATTACACTGGTCTATTGCTTGTGATTCATCTGTATTTC TGTCAAATCCGTACAATAAAATTTATATGAGG	miR-58.1/80/81/82
C37H5.13	C37H5.13	1	TAGATAATGAAACTGGAATCTCATTTATTGACATCTTTTTGAAACTCGATAAAAATAAACGGACATT GTGAGTAGTTAAGTGTAGTTTAAGTTCTTGAATGATCTCTTCTTTAAAAAAAAGTTTTAGTT	TAGATAATGAAACTGGAATCTCATTTATTGACATCTTTTTGAAACTCGATAAAAATAAACGGACATT CGTAGTAGTTAAGTGTAGTTTAAGTTCTTGAATTTAAAAAAAAGTTTTAGTT	miR-58.1/80/81/82
C07H6.5	cgh-1	2	ACACTAGTTCTATATCCCCAACCTCCAAAACACACTGGTGCCTACGTTTTTTCCATTAGTGTCTCGCAGATT GTGATGTTCTATTTCTTAAATGCACAGTTGTGCTAAATTAAATTGTCAGATAAGCATTTCTCTCTGTTTC TCAAAATCCCGCACATTATGTTATCCCATCCACTTCCGGACCCCATCACCCGTTCACTTATGCGGTAAATACTCA ATTITTCCTTCAATTAGTTCTGATCCCATCCCTCAACTTGCAGTCAGTGTGTTACATAGT CATTTAAGTTGGCTTTATGCTCCCAAAGTAATTGTCGTTGCAAATAATTGGGAGTGTAAAGGA CATTGTCATAACATCGGGTTTTGACGTTACATCGGTAGCTGGTAGCCGGCTCTGTTGAGCCGAC ATTGTCATAATCTGTAATTCTCATTCATCCCAATTCCCATGCCCCATACGTCACAAATTAAAAC CATCTTGGGTTTCCCTGCCATCTGAGGTTTATCCGCTCTGCTCATCCAGTCACATGTCATCTCA TGATAGATAATTGCAACTATTATCTGTCATAAGGCTAAAGACTATAATGCTTGGAAAGGCTCCGGCTGGCCATG CTCGCTTACAGCTTCCCCATCCAAACATTGTTCTCCGCCCTCCCTCTGTTATTGATAATTGTA GAAGTTGACACAAAATTGACAAATTTCGATTGACAAAGGATGCAAGCTTCTGGATGTTGCA ATAAAAGACCGAATCGAACATGTCCTCTGTTATTCTTCAAGAGTTATGAAAGGG	ACACTAGTTCTATATCCCCAACCTCCAAAACACACTGGTGCCTACGTTTTTTCCATTAGTGTCTCGA TTGTTCTATTTCTTAAATGCACAGTTGTGCTAAATTAAATTGTCAGATAAGCATTTCTCTCTGTTCT ATCCCGCACATTATGTTATCCCATCCACTTCCGGACCCCATCACCCGTTCACTTATGCGGTAAATACTCA TTCTTCAATTAGTTCTCCCATACCTCCAACCTGCACTGAGTCAGTGTGTTACATAGTCA TTAAGTTGGCTTTATGCTCCCAAAGTAATTGTCGACATTAGTGTGTTGCAAATAATTGGGAGTGTAAAGGA ATTGTCATAACATCGGGTTTTGACGTTACATCGGTAGCTGGTAGCCGGCTCTGTTGTTCTGAGCCGAC ATTGTCATAATCTGTAATTCTCATTCATCCCAATTCCCATGCCCCATACGTCACAAATTAAAAC CTTGGGTTTCCCTGCCATCTGAGGTTTATCCGCTCTGCTCATCCAGTCACCTCTCAATCTG ATAGATAATTGCAACTATTATCTGTCAAATGGCTAAAGACTATAATGCTTGGAAAGGCTCCGGCTGGCCATG TCGCTTACAGCTTCCCCATCCCAATTGTCACAAACATTGTTCTCCGCCCTCCCTCTGTTATTGATAATTGTA GAAGTTGACACAAAATTGACAAATTTCGATTGACAAAGGATGCAAGCTTCTGGATGTTGCA ATAAAAGACCGAATCGAACATGTCCTCTGTTATTCTTCAAGAGTTATGAAAGGG	miR-58.1/80/81/82
C09D1.2	isw-1	2	TTACATTCTATATTCTTCTCTCATTCATTGCTGATTATGTCGATCTATCCTCCCTTGATTACTGCTAAATC ATCTCATCTCTCATTTCTCATTTCTGAGTATTGCTAAGCACACCTACCTATGCTATTATTACCGTATCTCTT TATATCTTAAATGATTGAAATTACTCAAATAACCTCGGAGTC	TTACATTCTATATTCTTCTCTCATTCATTGCTGATTATGTCGATCTATCCTCCCTTGATTACTGCTAAATC TCATCTTATCTCTCATTTCTGAGTATTGCTAAGCACACCTACCTATGCTATTATTACCGTATCTCTT TTAATGATTGAAATTACTCAAATAACCTCGGAGTC	miR-58.1/80/81/82
Y22F5A.4	lys-1	1	AATTTTATGTTGTGATCTTACCTATTGATTATTCACAATAACAACTCTAGCTTAAATTAAATTAAACTG AAATACCATATAACATACCGAGATATACCGAGAAATTAAATGAATGTCAGT	AATTTTATGTTGTGATCTTACCTATTGATTATTCACAATAACAACTCTAGCTTAAATTAAATTAAATTAAACTGAAATA TACCATATAACATACCGAGATATACCGAGAAATTAAATGAATGTCAGT	miR-80/81/82
C09D1.2	clerc-89	2	TATTCCTCTAATTGATTGTTAGTTAATTCTCTAGTCATTGCTCATTCTCTGTTTCCGCTGTTCCATTCAAC CCAAGAACCTCATTCACCCGATCTGAAATAACTGTGTTTCT	TATTCCTCTAATTGATTGTTAGTTAATTCTCTAGTCATTGCTCATTCTCTGTTTCCGCTGTTCCATTCAAC CCAAGAACCTCATTCACCCGATCTGAAATAACTGTGTTTCT	miR-58.1/80/81/82
K06A4.1	nas-3	1	TAATTAAATTGATCAAGTCTATAATTATTTCATAATTTCCTCCCATCTCTTCTGCTTATTGATCGATCTTGT GCTTCAACACGTGCTCGCTTACGATTCTGACGATCTCAAACGTTTTGTTTATGATGGATAATTATTAATAAA TAAATTGGTTAAATTAAAT	TAATTAAATTGATCAAGTCTATAATTATTTCATAATTTCCTCCCATCTCTTCTGCTTATTGATCGATCTTGT GCTTCAACACGTGCTCGCTTACGATTCTGACGAAACGTTTTGTTTATGATGGATAATTATTAATAAA TGGTTAAATTAAAT	miR-58.1/80/81/82