

# Figure S1

A

Scu WT:        1 **M I K N A V S L V T G G A S G L G R A T**        20  
                 1 ATGATCAAGAACGCCGTTTCCCTGGTGACCGGAGGAGCCTCTGGACTGGGCCGCGCCACC 60

Scu<sup>K07</sup>:        1 **M I K N A V S L V** **S R R S L W T G P R H...**54aa..**\***  
                 1 ATGATCAAGAACGCCGTTTCCCTGGT**CTC**CCGGAGGAGCCTCTGGACTGGGCCGCGCCAC

Scu<sup>K011</sup>:        1 **M I K N A V S L V T**        **E P L D W A A P P...**10aa..**\***  
                 1 ATGATCAAGAACGCCGTTTCCCTGGTGAC**---**GGAGCCTCTGGACTGGGCCGCGCCACC

B

Rswl WT:        421 R Q R R E G L E F Q L D T W A T G K Q K K K Q R Q N \*  
                 1261 AGGCAGCGACGGGAGGGCTTGGAGTTCCA**ACT**TGGACACTTGGGCAACGGGGAAGCAAAAGAAAAAGCAGAGACAAAATTAA

Rswl<sup>2-3</sup>:        421 R Q R R E G L E F Q L D        **N G E A K E K A E T K L K...**23aa..**\***  
                 1261 AGGCAGCGACGGGAGGGCTTGGAGTTCCA**ACTGGA****-----**CAACGGGGAAGCAAAAGAAAAAGCAGAGACAAAATTAA

Rswl<sup>11-10</sup>:        421 R Q R R E G L E F Q L D        **G E A K E K A E T K L K...**23aa..**\***  
                 1261 AGGCAGCGACGGGAGGGCTTGGAGTTCCA**ACTGG****-----**ACGGGGAAGCAAAAGAAAAAGCAGAGACAAAATTAA

Figure S2

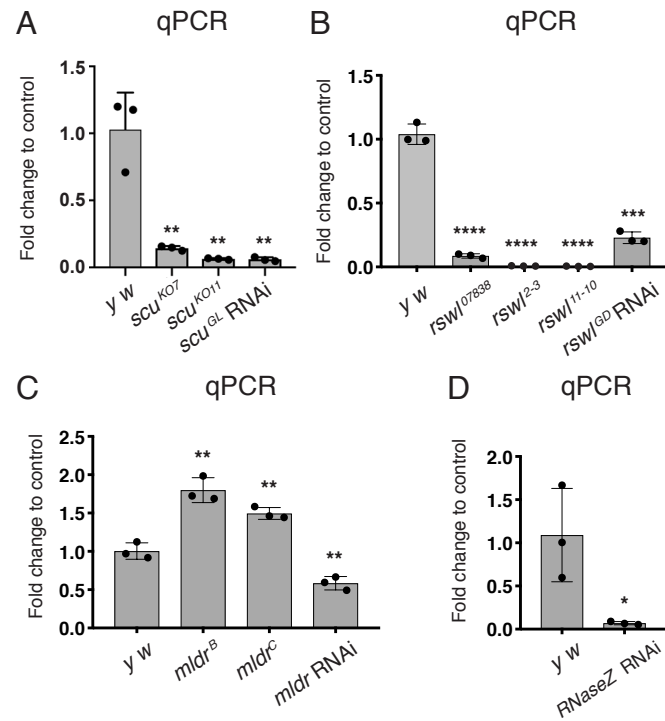


Figure S3

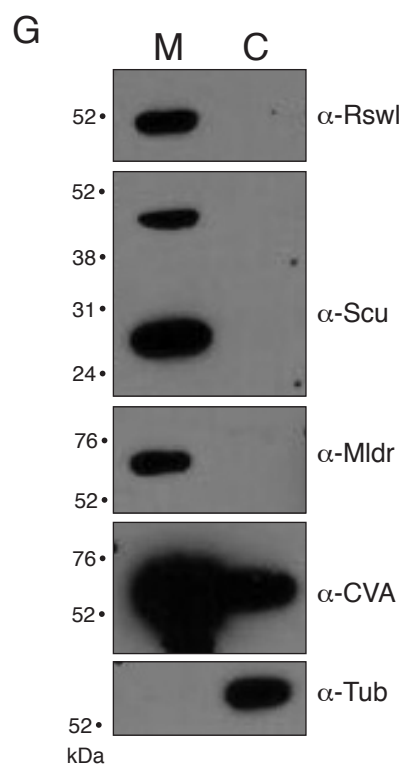
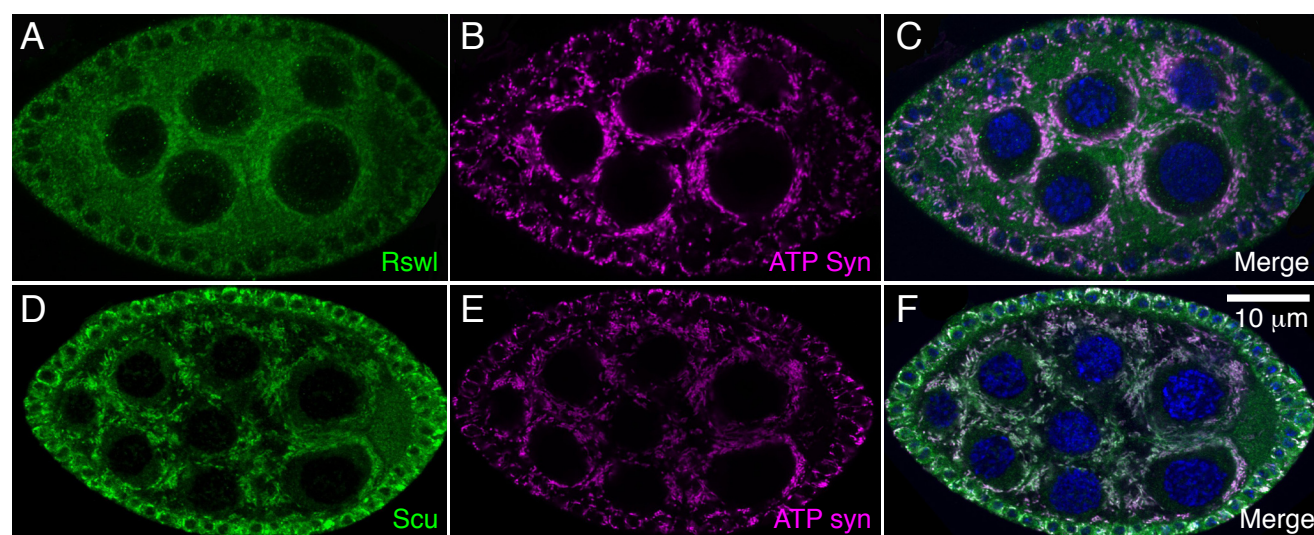


Figure S4

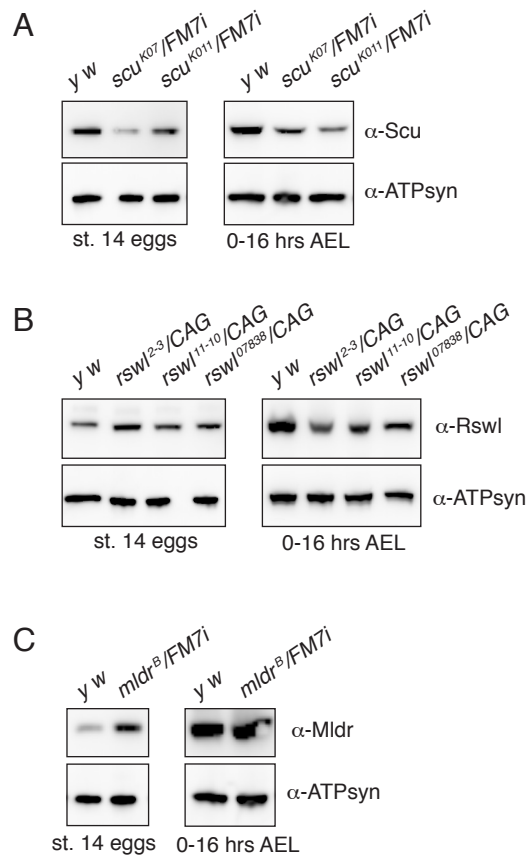


Figure S5

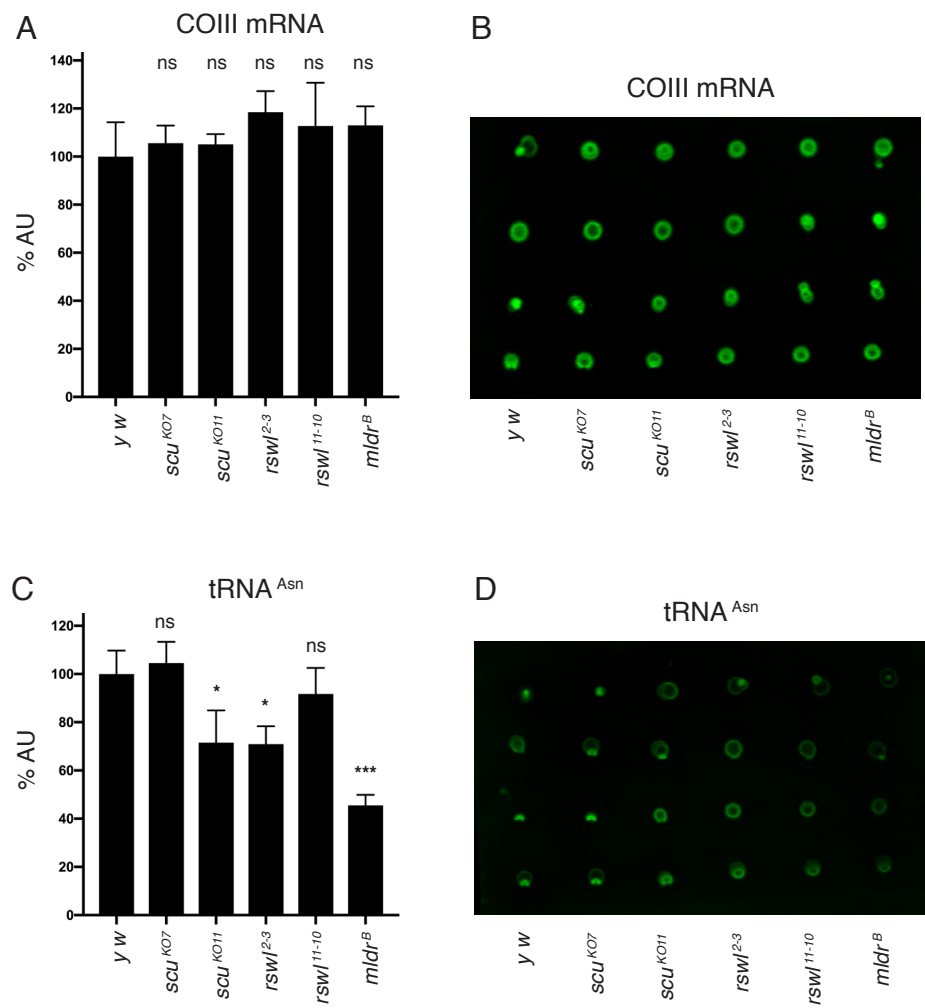


Table S1

Name	Sequence
nc RNA - 5' tRNA Met F	TGGTGTATGATGCACAAAAGTTT
nc RNA - 5' tRNA Met R	AACCTTTATAAATGGGGTATGAACC
COIII - 5' tRNA Gly F	TCACAATTTACTGATGAGGAGGA
COIII - 5' tRNA Gly R	AATAGACCTTATGATTGGAAGTCAA
3' tRNA Arg - 5' tRNA Asn	GAAGCGATTGATTGCAATTAGTTTC
3' tRNA Arg - 5' tRNA Asn	CAATTATATCATTAACAGTGATATGCCTC
lr RNA - 5' tRNA Leu(CUN)	TCTAAATTTATTGCACTAATCTGCC
lr RNA - 5' tRNA Leu(CUN)	GTACGAAAGGACCAAATATCAAAA
ATP6 - 5' COIII F	GAATCAGCTGTAGCTATAATTCAATC
ATP6 - 5' COIII R	GTTAATGGTCATGGACTATAATCCAC
nc RNA - 5' COI F	ATCTATCGCCTAAACTTCAGCC
nc RNA - 5' COI R	TTTGTAGAAAATAATCATTGTCGCG
nc RNA - 5' ND6 F	GAAAAGAAATTTCTTTTTCATTAATCCCC
nc RNA - 5' ND6 R	GCTAATGGATGAATTATTTAGAAAAATAATGG
ND6 - 5' Cytb F	ATTGTAAAAATTACAAAATTATTTAAAGGACC
ND6 - 5' Cytb R	CATTATTGGCAATTTTAAATAGAGGATGG
nc RNA - 5' ND4L F	CGATTAGAAACAAAACAAAATAGCCC
nc RNA - 5' ND4L R	TTTTGATTTACAAGACCAATGTT
tRNA Ile 3' - nc RNA F	AGTTTTCTGCATTCATTGACTGA
tRNA Ile 3' - nc RNA R	AACTTTTGTGCATCATACACCAA
tRNA Leu(CUN) 3' - ND1	CAAATAATTAATAACAACTACCAATTAATGAC
tRNA Leu(CUN) 3' - ND1	TTAGTGCAATAAATTTAGAATTTATATATGTG
18S F	TGGTCTTGTACCGACGACAG
18S R	GCTGCCTTCCTTAGATGTGG
tRNA Asn_int F	TAATTGAAGCCAAAAAGAGGCGATATC
tRNA Asn_int R	CTTAATTGGAATTTAAAATTCAATTATATCATTAAC
tRNA Met_int F	AAAAAGATAAGCTAATTAAGCTACTGG
tRNA Met_int R	TAAAAAGAAAAGGATTATAACCTTTATAAATGG
COIII_int F	CTGTATATCAATGATGACGAGATGTATC
COIII_int R	CTCATCGTAAACCAATAGTTACTGC
ND2_int F	GGACATTAATTACAGTTACATCTAATTC
ND2_int R	CTAAACCTATTCAAGCTCCTAACC