Supplementary Data 1

RNAi sequences

All RNAi plasmids were sequence verified using M13F(-21) primer: 5'-TGT AAA ACG ACG GCC AGT-3’

sfa-1 RNAi clone (Y116A8C.32)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTGGAACA
GTTGAGACATGAGAAAATTCAAGCTTTATTGAAGATTAATCCGAATTTCAAACCGCCCGCTGAC
TATCGGTATATATATAGGAAAATTTGAATTTTTCCGGCAAAAATGCGAGTTTTTGGTGAAAAAT
CACAGATTTTCAGAGTTTTCGGCTGAAAATTTGACCTTTTTCGCTGCAAATGTGTGATTCGGCT
GAAAAATTCATTTTCAGCAATATTTAGCTTGAAACTACCGATTTTTTTGTTGAAAATCATTTAA
AATTTCCGGATTTTCCGTTAAAAGTTGGAAATTCTTCAAATTTTTGCCCTTTGAATTTCGGCTA
AAATTTGACCGAAAACACTAGAATTTTAAGCTGAAAACTGGATAAATTCCAGAAATTTGAACAA
TTGAGGTTTTATGGGATTTTTACGGATTTTTGACAAAAAAAACGGTAGTTTTCAAGCTGAAAAT
TGCTGTGAATAAATTTTTAAAATCTGAAACTCCAAAAATCTGTGATTTTTCACCAAAAACTCGC
ATTTTTGCCTAAGAAATTCAAATTTTAAGCGTAAATTATAATTTTTGCAATAAAATATCTAAAA
TTTCAATTTTTTTCAGTGCTCCAAACATCCGTCTACACGACAAAGTCTGGATTCCCCAGGAACA
ATTTCCTGATCTCAATTTTGTCGGCCTACTCATTGGTCCACGTGGAAATACGCTGAAAAGCTTG
GAAGCTGAAACTGGAGCCAAGATTATTATCAGAGGAAAAGGATCTATAAAAGAGGGAAAATTGA
CGAATCGACTCGGACCGATGCCTGGNGAAAATGAGCCATTACATGCATATGTAACTGGAACTGA
TATGAATGTTATCAAAAAAGCATGTGAGAANATTAAACAAGTGATTGCTGAAGCCACTGCTCTG
CCGGANACATGAGCTCAGGAAGCTGCAACTGANANACTCGCACTGTTGAATGGAACTTTCCGAC
CGGANGATTTNGCAAA

repo-1 RNAi clone (F11A10.2)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTGGACGA
TGTGGAACAAAGACACGAAGCAATTCTTCTTACAAGTCGCATTCAAATTGGAACGACTCGATGA
TCAGCCGTACTATTGATACTCTATGTTTTTATCTTTTTGATTTCAAAATTCAAAACAATTTTTT
CGTGTTTTTCGATGATCTAACAATAAATTATTTTCCTTTTTTTTTAATGATGATATTTTATTTAA
ATCAAGTATAGGTTGACTGATCCGTCTACAATGTCTATTCAATTAAAATTATAGTTTTCATAGT
TTAAAAAATCAGTTTCAGATGGCGAAGAAGGTTGTCAAAAGAAAAGCTGAAGCAGTGTCCGCTG
ACGCAGAAGCCGTTGCAGAAGCTCCGAAGAAAATCAAGAAGCAGAAACCAAGTCTTCCAGTCTC
TGAACCTGATAATTATCAGGCTGGTGGATTATCAAGTCTCTTCGGAAAGTCGTCAGAAGGAGCA
GCAGTACAAGAGGAAGTTGTGAAGGGAGATAAAGTAACTGAAAAACCTAAAAGAAGAAAGTATG
ATCCAAAAAAAAGGCTGAAGAAGAGAAGGCAGCTGATGCTGCTGCTGCTGAAGAAGTTGCA
CCTGAAACAGAAGGAGAAGAGAAAAAAGATGAAAATAAGGAAGGAAAGCGAGACAGAACGAAGC
AAAGAGAGAATAGAACTCTTCAAAAGTCAAATGCACGTGCTTCAGCTGCTGAAAATGCTCTGAC
TGTTTTTGTTGGAAATATGCCATTGACAATGAACGAGAAATCAGTCCGTCGAATTTTCTCCGAC
TTTGGAACTATTTTCCTCTGTCCGTATGAGAAATCTGCTTCCTGCGAATGAGAAATTGACGAAA
CGAGTCACTCATTTGACAGGAAAATTGAATGACAAACAGAGTTCTCTCACGTTCTATGTGAAAT
TCGGAGCAGAAGAATCAGTGGAGAAAGCTCTGAAGTACNANGGAACCAAGCTGGACGATCATGN
GATTCGTGNNGACAAAGTTGGA

hrp-2 RNAi clone (F58D5.1)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAAG
TTTGTACAAAAAAGCAGGCTTGAGTGAGGAAATCAAACAGGAAGTAAAGGAGGAGGCTCCAGAA
ACAACGACTGAAGCCAAGACCGAAGAGGCTGCTCCTGTCGCAGAAGTAGTTGCAGAAGTTGTTA

CCAACGGAGATAAGCCGGCTGAAAATGGAAAGCGCCCGGGAGACGGACGAGGGGGACCAGCATC
GAAACGAGACAACGGAAAGCCTGATTTCTCGGCTGACGTCAACATGAGCACTTTCTACCCAGCT
TTCTTGTACAAAGTGGTGATATCAGATCTGCCGGTCTCCCTATAGTGAGTCGTATTAATTTCGA
TAAGCCAGGTTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGT
ATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAAC
ATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCC
ATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCC
GACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCG
ACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATA
GCTCACGCTGTANGTATCTCAGTTCGGTGTANGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGA
ACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTA
AGACACGACTTATCGCCACTGGCAGCAGCCACTGGNAACAGGATTAGCAGAGCGAGGTATGTAG
GNGNNGCTACAGANTTCTTGAAGTGGTGGCCTAACTACGGCTACACTANANANAGTATTTGGNA
TCTGCNCTNNGCTGAAGCNAGTTACCT

raga-1 RNAi clone (T24F1.1)

AGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAAGT
TTGTACAAAAAAGCAGGCTTGTCTTCAAAACGAAAAGTTCTTCTGATGGGCAAAAGTGGATCCG
GCAGGACTTCGATGCGTTCGATCATATTTGCCAACTACATCGCCAGGGATTGTTCGCGTCTCGG
GCCAACAATCGAAGTTGAGCATGCTCATGTCAAGTTCCTCGGAAACATGGTTCTTCACTTGTGG
GATTGTGGTGGTCAGGAATCATTCATGGAGAACTTCCTCGTCTCGCAAAAGGATCAGATCTTCA
AGAATGTTCAAGTGCTCATATACGTATTCGACGTGGAAAGCCGAGAGTTCGAGAAAGATCTCAG
ATATTACCAGTCTTGTCTCGAAGCTCTTCTCCAAAATTCACCGAATGCTCAAGTCTTCTGTCTC
ATTCACAAAATGGATCTGATCGAGGAGGACAAACGTGAAGAGACGTTCAAACGTCGTGAAGCAG
ATGTACTGCGATACAGTGAACTTGCAGCGACTCCACTTCAGAATGAACGGACGAACGCTGTTTG
TCAATGCTTCAAGAGCAGTATTTGGGATGAGACACTCTACAAAGCGTGGTCCGCGATAGTCTAT
CATCTGGTGCCAAACGTCGGAACCATGGAGGACAAGCTGAAGAAGTTCGGAGCTATTTTGGATG
CCGATGAAGTTATTCTATTCGAGAGAGCGACGTTCCTGGTTATTGCGCATGCTGTTCTCCGAGA
GCATNANNNTCCACATCGATTCGAGAANGTTTCAAACATCATAAAGCAATTCAAGCTTTCATGC
ACAAAAATGGGGTCCAAGTTGGATTCGATTCAAGTCCGAAACAGTCAGTTCTCCGCATTCATCG
ACTCGTTCACCCAGAACACTTATGTTATGATCGTGATACCCGACGGNACGCATCGGCTCCNNGA
TCANNTGAACGTNANACGCGAGNNNGNTCGAGNGATCGANACGAAAGCTACCAGCTTCTGNACA
AGNNGNGANNTCAGATCTG

hrpf-1 RNAi clone (W02D3.11)

GGGCGANTTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAAGT
TTGTACAAAAAAGCAGGCTTGCCTTCCTCGAGATTCTAGAGCATTGAGTGATCCATACGCCGCA
GAATCAAGATATTCGGAGTATGGCTATGAATCGCGGGAACCATATTGGCGTGGTGGTTCTGGAG
GGCCTCCATCTATTGGAGGAGGTGTTGGAGGAGGCGGAGCACCGCTTGCTCCAACTGGACGGGA
TCCTTATTCGGTAGGAGAATCTTGGGCTAATGGAGCAGGAGGGCCAGGTGGGCCACCACCGGTT
TCTTCTGATAGAGATCGGTACGGAAGTGGTGGATATGCAAGTGAGCCGTATGCACAAAGAGAAG
CTGGAGGAGCTATGCGCCGATCAGAATACGGTCGTCCTGATGATCGTTATTCAAAGCCAGAACC
ATATGGATATTCTAGAGACCGTGACTATGGAGCCCCTCAAAATCAGCATTTTGTGCTCCGAATG
CGTGGAGTACCATTCCGTGCCAGCGAGGCAGATGTCTATGATTTCTTCCATCCAATTCGACCGA
ATCAAGTAGAATTGCTCCGTGATCACCAATTCCAACGGCCAAGTGGCGATGCTCGTGTCATATT
CTACAATCGGAAAGATTATGATGATGCACTCATGAAAGATAAACAATATATGGGAGAACGTTAC
ATTGAGATGATTCCGGACAATGGAAGATATTACCCAGCTTTCTTGTACAAAGTGGTGATATCAG
ATCTGCCGGTCTCCCTATAGTGAGTCGTATTAATTTCGATAAGCCAGGTTGCTTCCTCGCTCAC

TGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATA
CGGTTATCCACAGAATCNGGGGATNACGCNNANNAACATGTGAGCAAAANNCAGCAAAAGGCCA
GGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTCCATNNCNNCGCCCCCCNGACGANCATCACN
AAANTCGACGCTCAA

snr-1 RNAi clone (Y116A8C.42)

ATAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAA
GTTTGTACAAAAAAGCAGGCTTGACTTCAGTTGGTGTCCCAATCAAGATTCTTCATGAGGCCGA
AGGTCACATGGTCACGCTCGAAACCGTTACAGGCGAAGTTTACCGAGGAAAACTTTCTGAAGCC
GAAGACAACATGAACTGTCAGCTGGCTGAAACCGTTGTGACTTTCCGCGACGGAAGAAGTCATC
AATTGGACAACGTTTTCATTCGCGGAAACAAGATCCGATTCATGATTCTGCCGGATATGCTCAA
AAACGCGCCAATGTTCAAAAATATCGGAAGAGCCCAGAAAGGAGCCATTGGAATGGGTTTGGGA
GGTCTCGATCAGCGTGGAAGAGGACGTGGAACCGCTTTCCGTCGACCAATGGGCCGTGGAGGAC
CACGTGGAATGTCTCGCCCGGGAGGAGCTCCAACGTTCCGTGGATACCCAGCTTTCTTGTACAA
AGTGGTGATATCAGATCTGCCGGTCTCCCTATAGTGAGTCGTATTAATTTCGATAAGCCAGGTT
GCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACT
CAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAA
AGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGC
CCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGANGTGGCGAAACCCGACAGGACTAT
AAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCT
TACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGT
NNNATCTCAGTTCGGTGTAGGTCGTTCGCTCCNAGCTGGGCTGTGTGCACGAACCCCCCGTTCA
GCCCGACCGCTGCGCCTNATCCGGTAACTATCGTCTTGAGTCCNACCCGGTAAGACACGACTTA
TNNCCACTGG

snr-2 RNAi clone (W08E3.1)

AGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTTTCAAAC
GGTTCTTGTGACTTTTAGAAGTTGTTTTGCAGAAATATTCGTTTGTTTCATCTCTTGTATCATC
AGAACTCTTTAATTTCTTTCATTTTGAAAGAGTAAAACTTCAATATTCTTATTTCCAGGTCCTA
GACAAAAAATCACAACCAACGCCTCAAGATGGTAAGTTTTTCTACAGTTCTCATGGAGATAAAT
ACAAAATATTTTCTTTTCAGACTATCTCCAAGAATAATAAGATGATGGCTCATCTCAACTACAG
GATGAAGATCATCCTTCAGGACGGTAGAACCTTCATCGGATTTTTCAAGGCTTTCGACAAGCAT
ATGAACATTTTACTCGCAGAGTGCGAGGAACACAGACAAATCAAGCCAAAGGCCGGAAAGAAGG
TATTGTTTTCTGTTTCTGCAGCGTTGATTGAAGACAAAAACCATTTTATTTTCAGACCGATGGA
GAAGAAAAGCGAATTCTCGGCCTCGTACTGGTCCGCGGAGAACATATCGTCTCGATGACCGTCG
ACGGACCACCACCAAGAGATGACGATTCAGTGAGACTCGCCAAGGCCGGAGGAGCTGGAGGTGT
CGGACAAGCCAAGCCAGGAGGCCGTGGAATGCCAGCTATGCCAGGAATGCCGGGAATGCCACCA
GGCGGAGCACCAGGAGGCCTCTCTGGAGCCATGCGCGGACACGGAGGACCAGGAATGGCAGCCA
TGCAGCCAGGATATGGCGGCCCACCAGGANGACGTCCATTCTAAAATTTTGCTATCCAAATCCG
CATGTTTCTATCATTTTTCCCAAATCAGATCTGCCGGTCTCCCTATAGTGAGTCGTATTAATTT
CGATAAGCCAGGTTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGC
GGTATCAGCTCACTCAAAGGCGGTAATA

uaf-2 RNAi clone (Y116A8C.35)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTATGAAAT
TGCAGAATCCTCCTTTCGAGCAGGTTGTAACTTCGTGTTGACGGCATCTAGACTCGCGGAAGTC
GGTGACAGGGCACAACTCTGCGTAGATTGGTTGTCCGTTGAACCTGAAAGCGAAAAATATTTTA

AAAATCGATAATTTTACAGAAAATTTTCATAATTTTTGCATTTAGCATAAAAATTTCCAGCTAA
ATTAGCAAAAATGATACGGGCTAGCTCGCCAAAGTGCTCAGATGGCCCCTGTGCCAGGTATATC
TCCATTTCAATGCCCTTCCGATGGGCAAAGTACAGTGGCACGTTCTCTTCACAGCACTTGAGCT
CAGCTTGAGCCCTATCAACACAGCAGCTTCAGCTTACGCACCATCGATTATTCAAATCATTCTT
TGCTTTCTCGGCGTCCTCTTCCTTCATAAATTTGACGTATACGTTTCCGACCATGTGTTCTCCG
ATATTCTCACAAACGTTGATCTCCTCCACTTCTCCATATTTTCGCTCCATCTCCACAAAAACCT
CCTCGTAGAAATCGTCAAAATAGCGCTGTTCCTGATCATTCCGCTTGCCGACTTTATCGAAAGC
ATCCGCCTGACGGACATCCACTACCGGATTGTGGTAGAAGTTTTTGAGCACAACTGTTGGCGAG
AATGTCGGTGTATGATGGGCTCTGGAGCATTTGTCTCCGTGGCGGCAGGCTCCTGTCTGCAAAA
ATTATTTAATTATTGAATTTTTTCACAGAAATCCACAACAAACCTTGAAGAAAAATGAGCAATT
GACTTTATCCTTCTCAGTACCATAGATTGAGGCCAGGTACTCGGCTCCGGAGAGCCCGTCACCA
TACGACATTGGGATTCACTAAAAAAAAATGATTTTTGACGAAAAATTCAATTTCAGCGGGAAACC
CTGAGAATTACGATTTTTAAACACAAATTCTGACGGANTACTTCAGAATACAACGTAAAACTCA
AAATATCANAATTCATGCAAAAAACAAACTGCGAACCTGAAACNNATAGAAAATGG

rsp-2 RNAi clone (W02B12.2)

GGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTTATAACTCT
GTGGCATCGTCCTGTGCTCCCATTTTATTGATTATCGACTTAATTTCAGCGCGTCGCGTGCATG
TGCATGTACATATTGCCTCCTATTTAATGTGCAATGCCCAAATTCTCTTCCTCTCTGGCCACAA
TAATTTTTATTTCTCCAGACTTTTCTTATTTCTTCTCTCTTTTGAATTGACTTTTCTCATTCTT
CACTTATTTCAGACCTCTAAACATGGTTCGTGTCTACATCGGTCGTTTGCCAAATAGAGCATCT
GATCGTGATGTCGAGCACTTCTTCCGCGGATATGGAAAGCTGTCTGATGTCATAATGAAGAACG
GATTCGGTTTCGTGGTAAGAGATAACATATTTTCGTCAGAATATCTTGAATATGTCATAATTTC
AGGATTTTCAAGACCAGCGCGATGCCGATGACGCTGTCCACGATTTGAATGGGAAAGAGCTTTG
TGGAGAGAGAGTCATTCTTGAGTTTCCACGGCGTAAAGTTGGGTACAACGAGGAAAGAAGTGGG
AGTGGTTTCAGAGGACGTGAGCCAACGTTCAGAAAAGGCGGCGAGCGCCAGTTTTCCAACCGAT
ACAGTCGTCCGTGCTCGACTAGATTCCGTTTGGTGATCGATAATTTGTCTACTCGTTACAGTTG
GCAGGTAAGATACATGACTGCGAGCCATAGCGATTCACAAGTTGCGTGTTTGAGTGTGATTGAA
CAACTAACGAAATACTACCCCCGTTCCAAATTTTACTGAAAACTGTCACTCATTTTTTCAAAAC
GAACATTTTGAATGCTACAGCAGCAACTCAGTGGGTGTGCCATTTGCCAATACAATTTGCAATT
CAATTGCTCTCAATCAATTTCCTCAGTCAATGGNATTCTTCTTCCTCCTATCAATCTGGCCCTA
CTTCACAAACAATCAATACCCTGNACCTGAATTTTNNNCATCAAGGACCACATCCGCAAGCTGG

rsp-3 RNAi clone (Y111B2A.18)

AGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAAGT
TTGTACAAAAAAGCAGGCTTGCCACGCGGCGGCTCAGAGGACCAAAAAGTCTACGTTGGCAACC
TGCCAGGAGACGTCCGAGAGAAGGAAGTCGAGGACATTTTCCACAAGTATGGCCGCATCAAGTA
CGTCGATATCAAGTCAGGACGTGGACCGGCGTTCGCTTTCGTCGAGTTCGAAGATCACAGAGAT
GCCGAGGATGCGGTTCGTGCTCGCGATGGCTACGAATTCGATGGCCGTCGCATTCGCGTCGAGT
TCACTCGTGGAGTCGGACCACGTGGCCCAGGCGGTCGCCCACTCCAAGACGGAGGTGATCACCG
CGGTGGAGACTTCCGAGGAGGACGTGGTGGTGGTCGTGGAGGTGGACCTCAGAGAAGAACCGGA
TACCGAGTGATCGTTGAAGGTCTTCCACCAACCGGGTCGTGGCAGGATCTTAAGGATCATATGC
GTGATGCTGGAGACGTCTGCTATGCGGATGTGGCTCGAGATGGAACTGGAGTCGTCGAGTTTAC
TCGTTACGAGGATGTCAAGTACGCTGTTCGCAAGCTTGATGACACCAAGTTCAGATCACATGAG
GGTGAAACTGCCTACATTCGCGTTCGTGAGGACAACTCTTCTGGAGGCGGAAGCGGTGGTGGTG
GCCGTGATCGTAGCCGTTCGCGCTCTCCAAGAGCCGAACGTCGTGCTTCGCCAAAGTACTCACC
TCGTCGTTCTCGTTCCCGCTCTCGCAGCCGTTCCCGCTCTCGTTCTCGCTCGGCCAGTCGCAGT
CCATCTCGCTCACCATCTCCACAATACCCAGCTTTCTTGTACAAAGTGGTGATATCAGATCTGC

CGGTCTCCCTATAGTGAGTCGTATTAATTTCGATAAGCCAGGTTGCTTCCTCGCTCACTGACTC
GCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCANNGCGGTANTANGGTTAT
CCACAGAATCAGGGATAACGCAGGAAA

uaf-1 RNAi clone (Y92C3B.2)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCACAAG
TTTGTACAAAAAAGCAGGCTTGCAACTCGGCGACAAGCAGCTCGTCGTTCAACTTGCCTGTGCT
AATCAACAACGTCATAACACAAATCTGCCGAACTCTGCGTCAGCAATTGCCGGAATTGATCTCT
CCCAAGGAGCCGGCCGAGCCACTGAGATCCTTTGTCTCATGAATATGGTGACTGAGGATGAGCT
GAAAGCTGATGATGAGTACGAAGAGATTCTGGAGGATGTACGCGATGAATGCTCAAAATATGGA
ATTGTTCGCTCGTTGGAAATTCCAAGACCGTATGAGGATCATCCGGTTCCAGGTGTTGGGAAGG
TTTTCGTCGAATTCGCCTCCACATCCGACTGTCAACGTGCTCAGGCTGCTCTGACCGGACGAAA
ATTCGCGAATCGCACCGTCGTCACCTCCTACTATGACGTCGACAAGTACCACAATCGTCAATTC
TACCCAGCTTTCTTGTACAAAGTGGTGATATCAGATCTGCCGGTCTCCCTATAGTGAGTCGTAT
TAATTTCGATAAGCCAGGTTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCG
GCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCA
GGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGG
CGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTG
GCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCT
CCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGC
TTTCTCATAGCTCACGCTGTNNTATCTCAGTTCGGTGTNNTCGTTCGCTCCAAGCTGGGCTGTG
TGCACGANCCCCGTTCANCCCGACNNTGCGNCNNATCCGGTANTATCGTCTTGAGTCCA

sym-2 RNAi clone (ZK1067.6)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTCTCGATC
TATTCCATCAAAATCGGTTGAAGTGGGAAGTTTTGTGGATGGTGAGAATAAGCAGCGAAGTTCG
GAGCAGATAACTGAGAAATTTGTGATAATGGGCTCGTTTGAGGCGGTGGAGCACCACGATTGCG
GAGCGTCAAAATGGCTTCTCCCGGACACAAATGAGTTGGCCAACGTGTGAATAGGACCTGGAAT
TGGTTTTTGTTTTAGCTTTATAAGAAACTTATGAGTAACTTACATTATCAACAGTATGTTCCGG
TGTTGTGAAATTAGCCACCAGCTCAGGAACTCCGATGCTCATATGGATACCATAGATAATCAAT
TGGGTAACCTGCCCTGGCACAATTGGTGAAATTGGTGGAGATGGGTAACTTGACCAGAACTGTT
GTGGTTGTGGTGCCTGTGGTGGCAGCTGCCCCATGAAACCCAATGGAGCCGGTGGTGGAACCTG
ATGTTGTTGACCAACCAGATGATGAAGGTTAAGCTCCTCAGCAGATGCTTGGAATACTTCGATG
TATCTCTTCTTTTTGCCAACAGACATAAAGTTATTGTGAACTCCAGCAGCGCAGGCAGAAGCCG
CTTGCTCATTGATCATTTGAATGAATGCTTCACCTGATGGATGACCTTGATTGTTGTATACCAT
ATGAACACCTTGGAACTTTACCATTGTTGCAAAGTCACCAAGGAATGTGACGATATGTTGCACC
TGGAAGAGCATTAACTTGTGTACTAGAAAATAAGTTTTATAAAAATTTCTCTGAACATATGTTC
ATTTAAAACCTGTCAGGTAGGTTTTTTCAGCGCAGAAAACAAAAAAAGTTTGGAAGAAAGAGTT
GTCGCTGATCCCTGCCTACAATATGACTTCGCGCCTTCTGCCAAGTTACTATGAATGATACACT
TAGAAATGCGAAAGTCTATACTATTGAGCANCAACGTTTAAACTTAAAATGCANAAAACAGG

smu-1 RNAi clone (CC4.3)

GGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTCCGAGGATATTCGAAT
TTTACACGTCATTTTCAGCCGTTTTTCACCGAATTTTCGCTGAAAATGTCATCGATTGAGATCG
AATCTTCAGAGTAAGTTTATCTAAAAAGTTTTTCATTCAAAATGTGTAAAAATTCATTTAAAAT
AACCCAAAAATCATTAATCCTCGATATTTTCAGTGTAATCCGTCTCATCGAACAATTCCTCAAA
GAATCGAATTTGCACCGAACTCTGGCGATTTTGCAGGTATTTTCCTGCATTTTTCAACTGGGAA

AATGAAAGAAAATCGATAATTTCAGGAAGAAACCAACGTTTCGCTCAATACAGTCGACTCAATT
GATGGATTTTGTAATGAAATTACGTCTGGAAATTGGGATAACGTGTTGAAAACCGTTCAATCGT
TGAAATTACCCGCCAAGAAACTTATCGATCTGTATGAACATGTAAGATATGGGAAAGAAGGAAA
AAACCGAGATTTTACTTGAAAAATTGAATTCTTCGCGGGATTTTCACCAAAAATTGTTGAATAT
TCATTATTTCACGCTGTAAAACAAAAAAAAAAAAATCAAAAACTACGTTGAAATCGCGTTTTTA
AGCGAATTTTCTTCAGAATTGCCAGATTTTAACCCCAAATTTTGCAGTTTTTAAATAAAATTTC
ACCTTTTCGGCTCAAATTGTAGATTTTCCTGAAAATTTAGTACAAAAAACAATTTCCTCGTAAA
TTTTTCAAATTTTCAGGTAATAATCGAGCTTGTGGAGCTCCGTGAGCTGGCGACCGCCCGTCTC
GTCGCCCGTCAGACTGATCCAATGATTTTGCTAAACAAATTGATCCGGATCGATTCNCCCGCCN
GGAATCTCTTATCAACCGCCCGTATTTCGATGGACNANANGNTTTA

hrp-1 RNAi clone (F42A6.7)

GGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTTGTTTTCGCG
TAATTCTTCATTTTAATTCAGATAATCTAATTGTTGTGTAGTTTTAGCTCGAATTTATCCGTAA
TCTTTGATTAAATACGAATAAAACTCGCTAAAATAGTCTTATTTCTCAGATATTTATCGATTTG
TTATTTTCCACGAATAGTCTACTCGTGCATGGCGTCTATATTTAACTTAATAATCTATTTTTAG
ATTTATCTTTACTCTAACTTGTACCTATTTCAGTGATCAACACCTCTGTCACTCTTTGTGAGTA
ATAGCGTTCGATAGGTAGTTACACCGTGAAACTAGCCTGTCTATTTCCTACTTCATAAGCTAAG
AACTACTTGTTAGCACAATCCGATCGACTACTAAGAACTAGATCATGACGGACGTGGAAATCAA
GGCTGAGGTTACGTTTGTTCACTTGCTTTTAGGGTGTAGGCCACCTGATTTGGGTCCCGATCAT
TTAATTATCGATTTTATTTTCAGAATGGAAGCGGAGATGCCTCGCTCGAGCCAGAGAACCTTCG
AAAGATTTTCGTTGGAGGACTCACGTCAAACACCTCCGATGACCTGATGCGAGAGTTCTACTCA
CAATTCGGAGAAATCACTGATATCATCGTCATGAGAGATCCAACTACCAAGAGATCCCGCGGAT
TCGGATTTGTCACCTTCTCTGGCAAAACTGAAGTCGATGCTGCCATGAAACAACGCCCGCACAT
CATCGACGGAAAGACCGTGGACCCGAAGCGTGCCGTGCCACGTGATGATAAGAACCGCTCCGAG
TCGAATGTCTCCACCAAACGCCTGTACGTCAGCGGAGTTCGTGAGGATCACACCGAGGACATGC
TCACCGAGTATTTCACAAAGTATGGAACCGTCACCAAATCCGAGATTATTCTCGACAAAGCCAC
CCAAAAGCCANAGGCTTCGNATTCGTCNCNTCGATGATCATGACTCTGTGNTCANGCGTTTTCA
AAATCCCATATGGNCACGGANNCAGATGTGACGTGCGCAAGNANNNNTCCNNNNCGANATGANC
AAG

phi-9 RNAi clone (M28.5)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTCTCTTTT
CTTTTGTTTCTCCCGTTGCCCGTTGTATTTTTCTTCGGAAATTAAATAAGTTGGTACAATAAAT
TAAAAATAAATGGAATTTTGATTATCTATTACTTTCAGATATGTTACTAGTGCAAATCATCGTA
AAAATTTGAATTTACAGCTTTGAAATCGTTTTTATTATTTTTTCTCTTGAATCGATAAATAATT
CTTTCGCATTGTAGCAATTTTCAACCATCTTTATTTCAGAAAAGAAGAAAAATGGCCGATGATG
GAGTCAATCCGAAGGCCTTCCCACTGGCCGATACCAACTTGTCTCAAAAGCTCATGGATCTCGT
CCAGCAAGCGATGAACTACAAACAGCTCAAGAAGGGAGCCAACGAGGCCACCAAGACTCTCAAC
AGAGGAATCTCTGAGGTAAGTGTATCGTAACCATGTTGAATTGCATTCCCATTTTCAAAATCAA
TTTTCGAACCAAATTAATTGAATTGTTTCAGATCATCGTCATGGCCGCCGATGCCGAGCCACTG
GAGATTCTCCTCCATCTTCCACTTCTCTGCGAAGACAAGAACGTTCCATACGTCTTTGTTCGCA
GCAAGGCTGCCCTCGGACGCGCTTGTGGAGTCACTCGTCCAGTGATCGCTGCTTCAATCACTCA
AAACGAAGGATCTCAGCTCAAATCTCAAATTCAGAAGATCAAGGAGGACGTTGAGAAGCTTCTC
ATCTAAATCCTTCTTTTATCAATTTGTTGTTACGTTACCTCATTGTTGTTATATGATAATCCAT
TCATTGTTTTGTTGTCCCAAATTGCAAATACATAATCAGATCTGCCGGTCTCCCTATAGTGAGT
CGTATTAATTTCGATAAGCCAGGTTGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGG
CTGCGGCGAGCGGTATCAGCTCACTCAAAGGNGGTAATANGNTNATCCACAGAATC

prp-8 RNAi clone (C50C3.6)

TAGGGCGATTGGGTACCGGGCCCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATTAACGACC
AAGCCAATTAACGGAGCCATCTTCATCTTCAATCCACGTACTGGTCAGCTTTTCCTCAAGATCA
TTCATACATCCGTATGGGCTGGACAGAAGCGTTTGTCGCAGTTGGCCAAGTGGAAAACAGCAGA
AGAAGTTGCTGCCCTCATTCGTTCGCTTCCAGTTGAAGAACAACCACGCCAGATCATTGTAACA
AGAAAAGCTATGCTCGATCCATTGGAGGTGCATCTTCTCGATTTCCCGAATATTGTCATCAAGG
GATCTGAGCTCATGTTACCATTCCAAGCTATCATGAAGGTTGAAAAATTCGGTGATTTAATTCT
CAAGGCCACCGAGCCACAGATGGTGTTGTTCAATCTGTACGATGATTGGCTCAAGACAATTTCT
TCATACACTGCTTTCTCTCGTGTCGTTCTTATCATGCGTGGAATGCACATTAATCCAGATAAGA
CTAAAGTTATCTTGAAACCAGACAAGACTACTATCACCGAGCCTCATCATATTTGGCCCACACT
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prp-38 RNAi clone (D1054.14)

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AAGTTCGTGAACGAGAAAAACTGAAAGAACGAAGAGAAAGAGGAGACGATGAGCCAGGGCCAAG
CAGTANTGGNAGTGGTAGACGTGATGATAGAGATGACAGAAGAAGANATCGTGATAGAAGCCGG
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unc-75 RNAi clone (C17D12.2)

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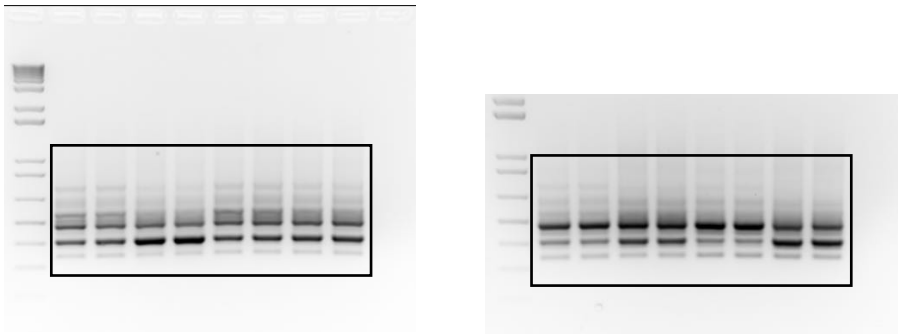
Supplementary Data 2

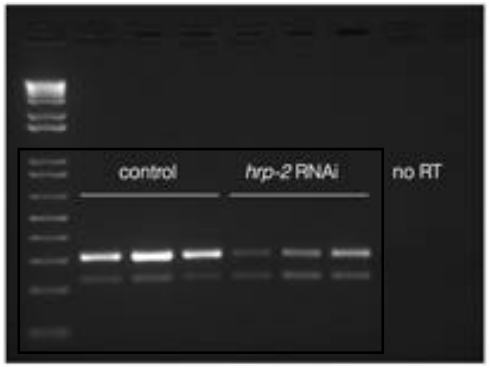
Primer sequences used for RT-PCR and qPCR			
Gene	**Position**	**Sequence 5' - 3'**	
tos-1 F	Exon 1	ATGATCTACGGATTCGAGTCGTCACCCATC	
tos-1 R	Exon 4	TCAAGCGCTATCCTCCAGTGACTTC	
ret-1 F	Exon 4	CATCCGCTGAAGGATCCATAG	
ret-1 R	Exon 6	GAGCTTCCTCAGCAATCGGAG	
lea-1 F	Exon 8	GCTGCTGCAGCAAAGGACAATGCT	
lea-1 R	Exon 11	CTCGACGTGTTCGGCTGTCTTCTT	
slo-2 F	Exon 16	CTGTGGCTGATATTCCTATCGG	
slo-2 R	Exon 20	TCCGGATTGGACTTCTGATTACG	
lipl-7 F	Exon 4	TGTACATTGGACATCGGTTTC	
lipl-7 R	Exon 5	CGGATATAAATCAAATGCAGC	
mCherry F		GAGCGCGTGATGAACTTCGAG	
mCherry R		TGTAGATGAACTCGCCGTCCTG	
EGFP F		ACCACATGAAGCAGCACGAC	
EGFP R		GTTGCCGTCGTCCTTGAAGAAG	

Supplementary Figure 1

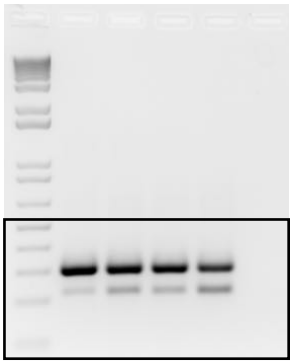
Figure 1i



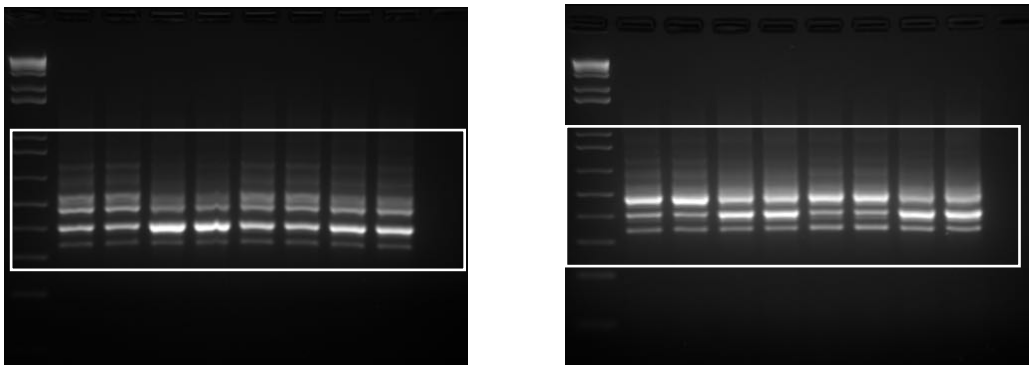
Extended Data Figure 2b



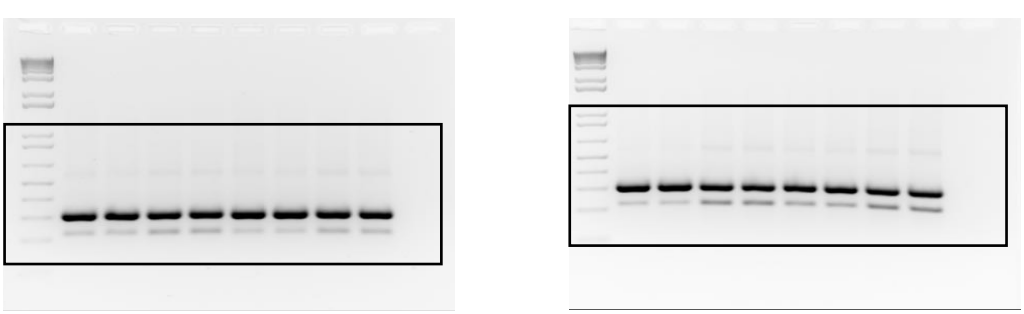
Extended Data Figure 4e



Extended Data Figure 5a

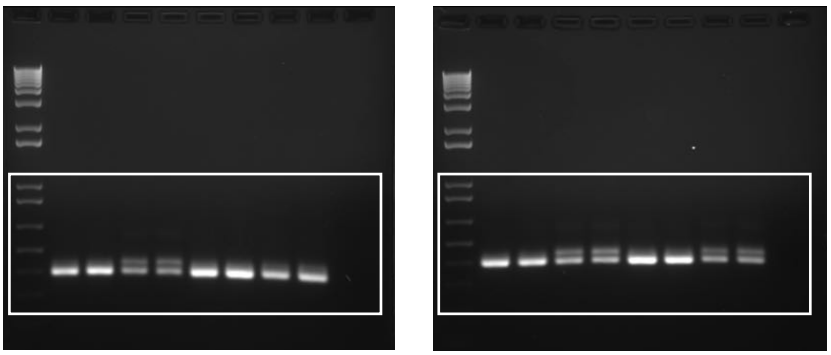


Extended Data Figure 5b

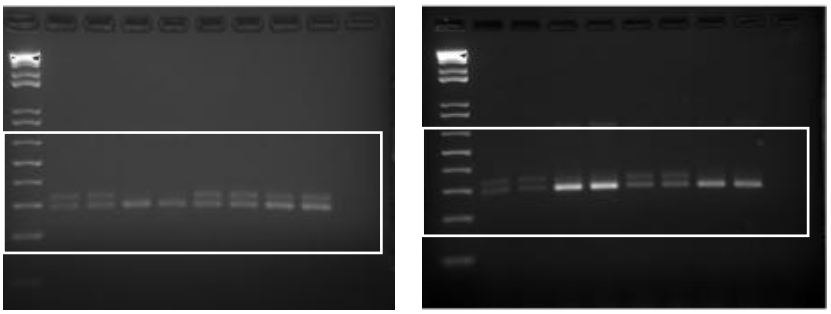


Supplementary Figure 1 - continued

Extended Data Figure 5f



Extended Data Figure 5h



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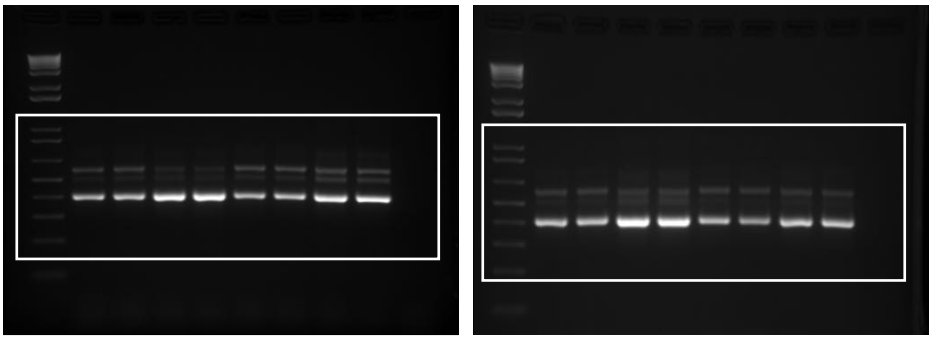
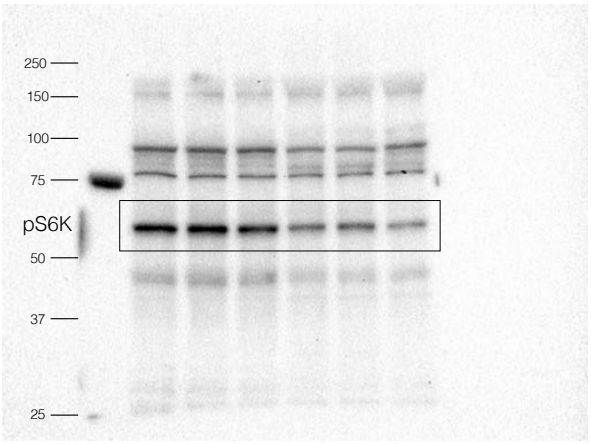
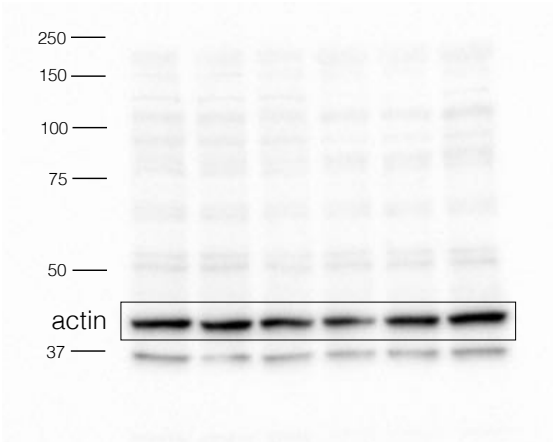


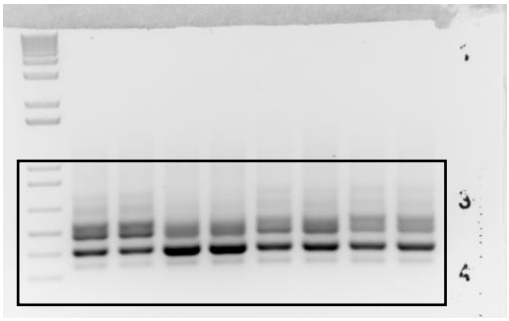
Supplementary Figure 1 - continued

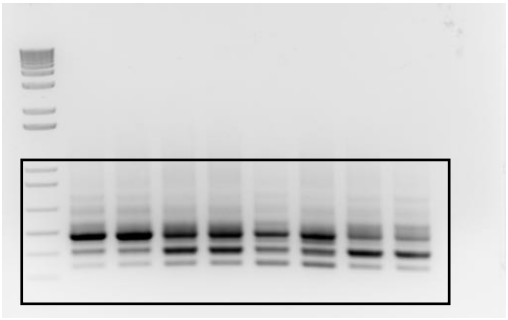
Extended Data figure 8e



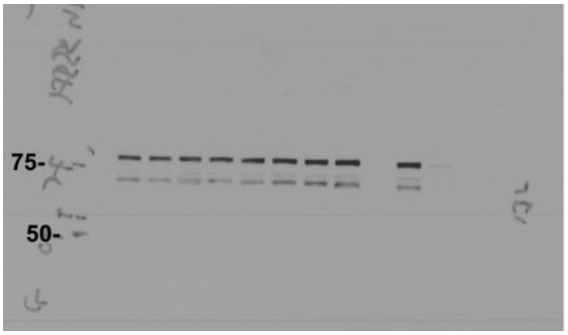


Extended Data figure 8f

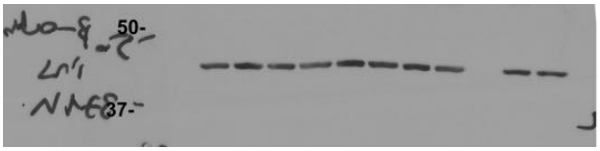




Extended Data figure 8i

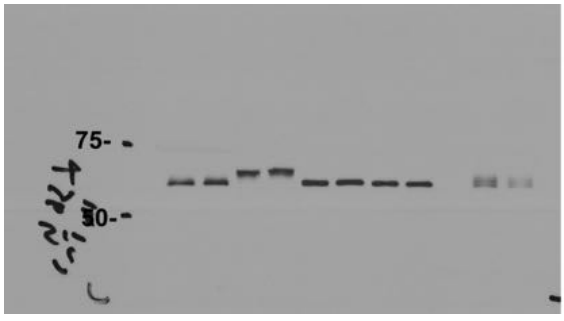


SF1



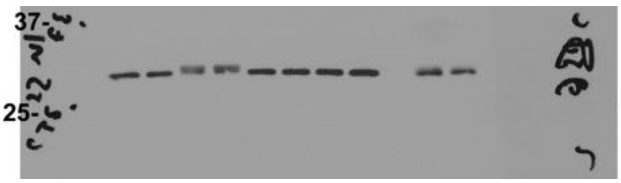
β-actin

p-S6K (Thr 389)



S6K

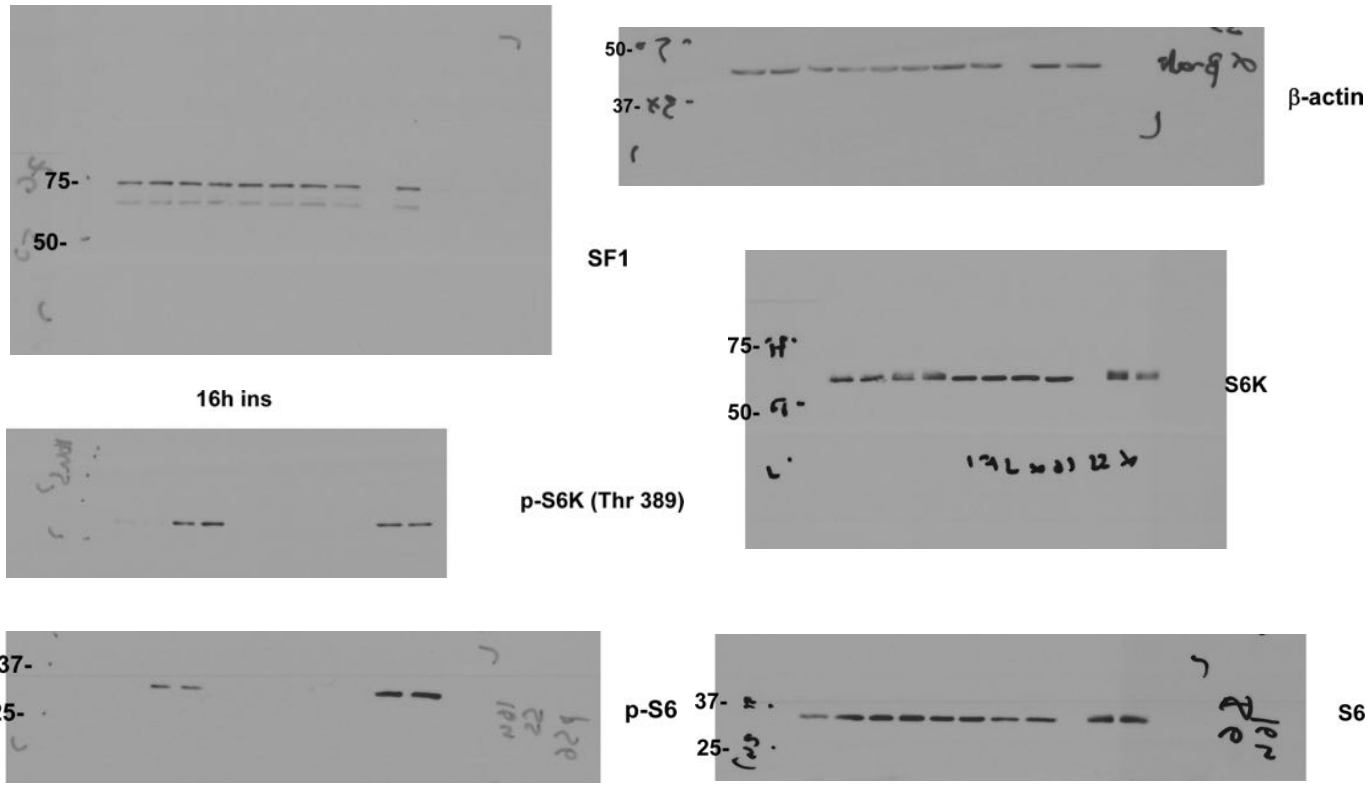
p-S6



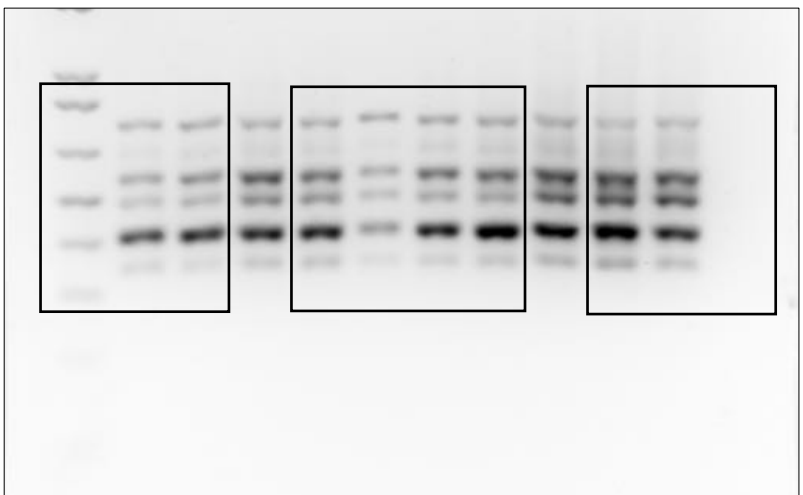
S6

Supplementary Figure 1 - continued

Extended Data figure 8j



Extended Data figure 9i



Two samples are not presented in Edf9i because strains were injected with different plasmid concentration.