

Supplementary File 2. Oligos used for transgenic strain construction and *pdf-1* FISH

All sequences are listed in the 5' to 3' direction.

Primers used to generate <i>pdf-1</i> overexpression construct	
CTTGGCGTAATCATGGTCATAG	pUC19 forward
TTCACTGGCCGTCGTTTTACAAC	pUC19 reverse
gtaaacgacggccagtgaaAAAAGGTTGCTTTACCGAGAC	pdf-1 genomic forward w/pUC19 overlap
atgaccatgattacgccaagGCCACTTTTCACGCTTCAG	pdf-1 genomic reverse w/pUC19 overlap
Primers used to generate ASJ-specific <i>pdf-1</i> rescue construct	
GTCCAATTACTCTTCAACATCC	pUC19+unc-54 3'UTR forward
TTCACTGGCCGTCGTTTTAC	pUC19+unc-54 3'UTR reverse
acgttgtaaacgacggccagtgaaTGAGTTGGCACTTCGTAG	trx-1p forward w/ pUC19 overlap
tgatagagtcagGATCAATTGCTCAAAGTCAC	trx-1p reverse w/pdf-1 overlap
tgagcaattgacCTGACTCATATCATGGCGG	pdf-1 cDNA forward w/trx-1p overlap
ttaaggctgcttgactggTGGAGATTTTGTGGAGCG	pdf-1 cDNA reverse w/2A overlap
accaccgtgtcaCCAGTCAAGCAGACCCTTAACTTC	F2A::mCherry forward w/pdf-1 overlap
taggatgttgaagagtaattggacCTTATACAATTCATCCATGCC	F2A::mCherry reverse w/unc-54 3'UTR overlap
Primers used to generate ASJ-specific expression of ACY-1(P260S)	
GTCCAATTACTCTTCAACATCC	trx-1p+unc-54 3'UTR backbone forward
GATCAATTGCTCAAAGTCAC	trx-1p+unc-54 3'UTR backbone reverse
gacttgagcaattgacATGGACGACGATGTCGGTG	acy-1 forward w/ptrx-1 overlap
gttgaagagtaattggacTTAAAATTCGTCTTCTTGGTTATCCTTG	acy-1 reverse w/unc-54 3'UTR overlap
Primers used to generate ASJ-specific RNAi constructs	
acgttgtaaacgacggccagtgaaTGAGTTGGCACTTCGTAG	trx-1p Forward w/pUC19 overlap
tccagttccGATCAATTGCTCAAAGTCAC	trx-1p Reverse w/pdf-1 sense overlap
tgtgtcaacaGATCAATTGCTCAAAGTCAC	trx-1p Reverse w/pdf-1 anti-sense overlap
tccactgacaGATCAATTGCTCAAAGTCAC	trx-1p Reverse w/gfp sense overlap
ctgtgetcccGATCAATTGCTCAAAGTCAC	trx-1p Reverse w/gfp anti-sense overlap

gcaattgacGGAAACTGGAATTCGTGG	pdfr-1 sense Forward w/trx-1 overlap
atgacatgattacgccaagTGTTGACACATCCTGCTG	pdfr-1 sense reverse w/pUC19 overlap
gcaattgacTGTTGACACATCCTGCTG	pdfr-1 antisense Forward w/trx-1 overlap
atgacatgattacgccaagGGAAACTGGAATTCGTGG	pdfr-1 antisense Reverse w/pUC19 overlap
gcaattgacTGTCAGTGGAGAGGGTGAAG	gfp sense Forward w/trx-1 overlap
atgacatgattacgccaagGGGAGCACAGGGAGAAAG	gfp sense Reverse w/pUC19 overlap
gcaattgacGGGAGCACAGGGAGAAAG	gfp antisense Forward w/trx-1 overlap
atgacatgattacgccaagTGTCAGTGGAGAGGGTGAAG	gfp antisense Reverse w/pUC19 overlap
tgagttggcacttcgtaga	nested trx-1p Forward
TGCAAATTCTTACCACTGCATCT	nested pdfr-1 sense R
aaactatgactcggcgcaac	nested pdfr-1 antisense R
TTAGAAGTCAGAGGCACGGG	nested gfp sense R
TGCACTACTGGAAAACCTG	nested gfp antisense R
*pUC19 backbone was amplified with primers listed above and used for all Gibson cloning of RNAi constructs	
Primers used to generate floxed <i>pdfr-1</i> rescue construct and ASJ-specific Cre	
GGCGCGCCTCTAGAGGATC	pSF11 forward for amplifying Cre in plasmid backbone w/out promoter
GGCCGGCCCAGTCAGTGC	pSF11 reverse for amplifying Cre in plasmid backbone w/out promoter
ccgcactgactggccgccTGAGTTGGCACTTCGTAG	trx-1p forward w/pSF11 overlap
ggatccttagaggcgccGATCAATTGCTCAAAGTCAC	trx-1p reverse w/Cre overlap
ataactcgtatagcatacattatacgaagttatGTCCAATTACTCTTCAACA TCCC	pPD95.75 Forward w/loxP overlap
GTCGACCTGCAGGCATGC	pPD95.75 reverse primer
taagcttgcagcctgcaggtgcacAAAAGGTTAAGCGCCCTTG	pdfr-1p(5kb) Forward w/pPD95.75 overlap
gtatgctatacgaagttatTTCAATTGACGTTTGACC	pdfr-1p(5kb) Reverse w/loxP overlap
agaattggtcaaacgtcgaattgaataactcgtatagcatacattatacgaagttatCTG ACTCATATCATGGCG	pdfr-1 cDNA Forward w/loxP site and pdfr-1p(5kb) overlap
tagggatgtgaagagtaattggacataactcgtataatgtatgctatacgaagttatTTAT GGAGATTTTGTGGAGC	pdfr-1 cDNA Reverse with loxP site and pPD95.75/unc-54 3'UTR overlap

<i>pdfr-1</i> FISH Probe Set	
accataagcattgcaatcat	
caatatagagtagcagccga	
ccatttcaccagtgaatat	
ttctgctgagttcgtgtgag	
ggcatagtattatcgtttt	
gaacattccttcacaacga	
attccttctaagaacatcca	
agggtaacaattttggctcc	
ataccgtatccagcaatgaa	
tagccagagcattgtgtgaa	
ctttttgatgagcaccaca	
taagcatcgttccacttga	
ctaggaccatctagaatcca	
attatcacaagtctgcca	
gactcgaatgacattacag	
agattctcgaactttactgt	
agacctgcttcagacgtatt	
attgcagctttgaccgattt	
acctaacagcggcaataaca	
ttgtttgcattatattcgga	
ttatccctagttggtgcaaa	
cgccaacagcaaatacca	
tataggtgaaagagcggtg	
atactggcaaccataagtcc	
aacctcctgttcgtaaagc	
agaaggtcttgaggacgtga	
ttatggaggagtcgataaccg	
tcgtcgaagttcgttttgtg	
ataatgggatgacgacgcttc	
ttagctgtccatttttgc	
tatttgtctgtggtgcaactt	
agttttccaaactcgtcagc	
ttttactccttgacgggaac	
cgtcgtggaatcatcgtac	
catcactgcactttcatca	
tgtttgcattctttctct	