

A

Group A genes Enriched functional category	$-\log_{10}(\text{p value})$
None	n/a

Group B genes Enriched functional category	$-\log_{10}(\text{p value})$
Mitochondrial dysfunction	9.6
tRNA charging	8.6
Hereditary breast cancer signaling	7.0
Molecular mechanisms of cancer	7.0
Huntington's disease signaling	6.3

B

	-100-0nt		0-+100nt	
	Motif	Z-score	Motif	Z-score
Depleted in group A	AATAAA	-2.8	TGTGTT	-2.8
Enriched in group A	CTTCTA	8.6	AGCGGG	6.6
	CGGAGG	6.0	CACCGA	6.6
	CTCAAG	4.9	TCTAGG	5.1
	GTTAGC	4.5	TGACTA	4.9
	ACCAAT	4.1	GAATGA	4.1

Figure S24. Analyses of single-PAS genes. (A) Gene ontology analyses of the 77 single-PAS genes whose mRNA levels significantly decreased in Fip1 KD cells (group A genes) and the 5870 single-PAS genes whose mRNA levels did not change (group B). Functional categories and the $-\log_{10}(\text{p value})$ are shown. (B) Sequence comparison between the PASs of group A and B genes. Motif sequences and the corresponding Z-scores are shown.