

## Supplementary Information

**Ms. Ref. No.:** TOXLET-D-19-00757

**Title:** Effect of PFOA on DNA Methylation and Alternative Splicing in Mouse Liver

**Author(s):** Yi Wen, Jackie Chen, Junya Li, Waqar Arif, Auinash Kalsotra, Joseph Irudayaraj

**Table S1 Sequences of primers sets used for gene expression analysis**

Target	Forward primer	Reverse primer
<b><i>GAPDH</i></b>		
<i>Kitl</i>	5'-AGTGCTTCGCTGTGAACCCTGC-3'	5'-CCAAGCCATGCAAACGGTGCAA-3'
<i>Mtorc1</i>	5'-GAACCTCAGGGCAAGATGCT-3'	5'-TCTTCAGTCCACTGGCGAAC-3'
<i>Ccna2</i>	5'-GCTCTACTGCCCGGAGGCTGA-3'	5'-TGGCCTACATGTCTCTGGGGAA-3'
<i>Ccnb1</i>	5'-TGCATTCTCTCAGTGCCCTCCACA-3'	5'-AGACAGGAGTGGCGCCTTGGT-3'
<i>Ccne1</i>	5'-GGTGTCTCTCGCTGCTTCTGCTT-3'	5'-CCGGATAACCATGGCGAACGGA-3'
<i>Bcl2</i>	5'- ATGCCTTTGTGGAACATATATGGC-3'	5'- GGTATGCACCCAGAGTGATGC-3'
<i>Bax</i>	5'- TGAAGACAGGGGCCTTTTTG-3'	5'- AATTCGCCGGAGACTCG-3'
<i>Dnmt1</i>	5'-GGAAGGCTACCTGGCTAAAGTCAAG-3'	5'-ACTGAAAGGGTGTCACTGTCCGAC-3'
<i>Dnmt3a</i>	5'-TGGAGAATGGCTGCTGTGTGAC-3'	5'-CACTCATCCCGTTTCCGTTGG-3'
<i>Dnmt3b</i>	5'-AGTGACCAGTCCCTCAGACACGAAG-3'	5'-ATCAGAGCCATTCCCATCATCTAC-3'
<i>Tet1</i>	5'-ACATCCCACAGACCGAAGAT-3'	5'-TTCTGGGGTTTTCACTCCTC-3'
<i>Tet2</i>	5'-AGAGCCTCAAGGCAACCAAAA-3'	5'-ACATCCCTGAGAGCTCTTGC-3'
<i>Tet3</i>	5'-CCGGATTGAGAAGGTCATCTAC-3'	5'-AAGATAACAATCACGGCGTTCT-3'
<i>Pten</i>	5'-GCAGAGCAAGCTCAGTGTGGGT-3'	5'-AGGGGGCAAGGTAGGTACGCAT-3'
<i>Tsc1</i>	5'-ATGCTGCTGTGGGTGGGTGTA-3'	5'-AGGGTGAACCATGACCAGCCA-3'
<i>Esrp2</i>	GGCTCATCTCCTCTGTGGAA	CCAGATGATGTCGGTGGAG
<i>Srsf1</i>	GGGTAACCTACCTCCGGATA	CGGTTCTTCAGGTCGATG
<i>HnrnpH</i>	CAAGGAGCAGTGAACAGCAG	TACATTCCCCATCCACCACT
<i>HnrnpC</i>	GAATCCACTTTTGCCCCTTC	GGTTCTCTCTCTCTCTCTA
<i>Mbn1</i>	GTTGCAGCTAGGAAAGGCTA	CACTTCTCCCATTCCCACT
<i>HnrnpA1</i>	GTCCGAGTCTCCCAAGGAGCC	TGACAAACCCAAAGCCCCTGG
<i>Rbfox2</i>	GGCGCACTATGCTCTTCTTG	CCACCTCCGTCCTGTACCTA
<i>Celf1</i>	AGGACCTGGTCTGAGAAAGA	GGCTCCTATCCCTTAGGATG

**Supplementary Table S2: Antibodies used in Western blot experiments**

Target	Type	Assay	Origin	Dilution	Source	Catalogue No.
ESRP2	1°	WB	Mouse	1:5000	Rockland	210-301-C31
SRSF1	1°	WB	Rabbit	1:5000	Abcam	ab38017
hnRNP H	1°	WB	Rabbit	1:10000	Abcam	ab10374
PABPN1	1°	WB	Rabbit	1:5000	Abcam	ab75855
PABPC1	1°	WB	Rabbit	1:5000	Abcam	ab21060
CELF1	1°	WB	Mouse	1:1000	Santa Cruz Biotech.	sc-20003
PTBP1	1°	WB	Mouse	1:1000	Invitrogen	32-4800
TBP	1°	WB	Mouse	1:5000	ThermoFisher	MA5-14739
Anti-Mouse IgG	2°	WB	Goat	1:5000	Bio-Rad	1721011
Anti-Rabbit IgG	2°	WB	Goat	1:5000	ThermoFisher	SA5-10033

### Supplementary Table S3: RT-PCR Primers

Event	Forward Primer(5'-3')	Reverse Primer(5'-3')
Arhgef10_15	CTGCTCAATGACATGCTGGT	TCCTGACCCACCTTACCAC
Gpcpd1_76	TGTGTTGTGGAAAGCAGTGA	GTGGATGCCAAACTGTCCAT
Adams7_177	TCCATCAGTCCTACCCAAGC	AGTTTGAGTCTCCCGAGCTG
Fanci_157	CTTCGTGAAACCAAGCCAAT	CGTTTTCGTCTTCCTCATCC
Hjurp_79	CGGAAACACCTTGAAACTG	TAGCCACAATGGCCATATCA
Rgs12_154	CCCAGAAACCACTTGGCTAT	ACCAGCAGGTAAGCGAAGAA
Nf2_45	ACACAGCGAGAGCTCAGACA	ACAAGCCAGCCCTCTACTGA
Yap1_48	AACCAGCAGCAGCAAATACA	CCTGAGACATCCCAGGAGAA