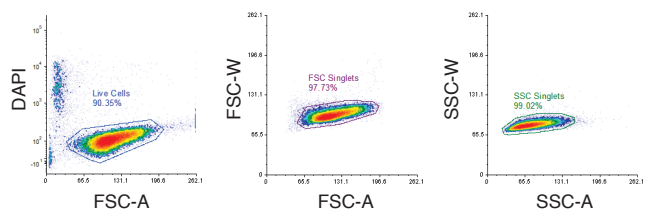


# Supplementary Figure 1



Gate	# of events	% of gated cells	% of all cells
None	34026	100.00	100.00
Live Cells	30742	90.35	90.35
FSC Singlets	30045	88.3	88.3
SSC Singlets	29752	87.44	87.44

Supplementary Table 1

<b>ID</b>	<b>Lipid Species</b>
1	PC(16:0e_22:4)
2	PC(18:0_22:4)
3	PC(16:1e_22:4)
4	PC(18:0_22:4)
5	PC(16:0_22:4)
6	PC(14:1e_22:6)
7	PC(18:1_22:6)
8	PC(16:0_22:6)
9	PC(18:1_22:2)
10	PC(18:1_22:6)
11	PC(16:0_20:4)
12	PC(16:1_18:2)
13	PC(14:1e_22:6)
14	PC(18:1_22:5)
15	PC(16:0_22:6)
16	PC(20:1_20:4)
17	PC(15:0_22:4)
18	PC(14:1e_22:5)
19	PC(12:1e_22:6)
20	PC(19:1_20:4)
21	PC(16:1_20:4)
22	PC(18:0_18:2)
23	PC(12:1e_22:6)
24	PC(12:1e_22:4)
25	PC(12:1e_22:5)
26	PC(18:1_20:4)
27	PC(16:0_20:4)
28	PC(17:1_22:6)
29	PC(15:0_20:4)
30	PC(17:1_22:6)
31	PC(16:1_20:4)
32	PC(18:0_18:2)
33	PC(14:1e_20:4)

Supplementary Table 2

sgRNA Oligos		
Gene	Forward Oligo (5'-3')	Reverse Oligo (5'-3')
<i>SFXN1</i>	caccGTAGCCTTACTTGACAGTGA	aaacTCACTGTCAAGTAAGGCTAC
<i>GCH1</i>	caccGCAGCAATGGGTTCCCGAG	aaacCTCGGGGAACCCATTGCTGC
<i>SPR</i>	caccGGAGCATGGAGGGCGGGCTG	aaacCAGCCCGCCCTCCATGCTCC
<i>PTS</i>	caccGTGTGGTGACAGTACATGGAG	aaacCTCCATGTACTGTCACCACAC
<i>ACSL4</i>	caccGAATGACAAGCCAAACCCAG	aaacCTGGGGTTTGGCTTGTCAATC
<i>NOS3</i>	caccGAGCCAACGTGGAGATCACCG	aaacCGGTGATCTCCACGTTGGCTC
<i>AGMO</i>	caccGCTTACCATGAGCCATACGA	aaacTCGTATGGCTCATGGTAAGC
<i>QDPR</i>	caccgAGCCTGGCTGGGAAGAAGCAG	aaacCTGTTCTTCCCAGCCAGGCTC
<i>GPX4</i>	caccGAATTTGACGTTGTAGCCCG	aaacCGGGCTACAACGTCAAATTC
<i>DHFR</i>	caccGACATGGTCTGGATAGTTGG	aaacCCAACATCCAGACCATGTC
PCR Primers		
Gene	Forward (5'-3')	Reverse (5'-3')
GCH1 isoform	GCCGGATCTAGCTAGTTAATTAAGCCACCATGGAAAAGGG	GGGCGGAATTTACGTAGCTCAGGTAGCTTCAACCACTACC
qRT-PCR Primers		
Gene	Forward Primer (5'-3')	Reverse Primer (5'-3')
SLC7A11	TGTGTGGGGTCTGTCACCTA	CAGTAGCTGCAGGGCGTATT
GAPDH	TTGGTATCGTGGAAGGACTC	ACAGTCTTCTGGGTGGCAGT