

Table S9. Information for elite inbred lines selected for the gene effect validation of *Zmfatb*.

Inbred lines	Pedigree	Genotype	C16:0 (mg/g)	C16:0/ALL (%)
By815	BHO	-/-	11.12	9.64
By813	BHO	-/-	11.23	9.17
By804	BHO	+/?	16.47	13.23
By4839	BHO	+/?	16.61	14.56
4F1	Lancaster	-/-	4.91	13.81
Mo17	Lancaster	-/-	5.26	13.85
Ji63	Lancaster	+/?	7.60	18.05
Ji53	Lancaster	+/?	7.61	15.28
Shen5003	Reid	-/-	4.67	14.45
B73	Reid	-/-	5.07	13.89
832	Reid	+/?	7.11	14.76
U8112	Reid	+/?	7.78	15.47
K10	RHO	-/-	4.49	12.98
7884-4Ht	RHO	-/-	5.06	12.65
Ry697	RHO	+/?	12.58	14.97
Sy1035	RHO	+/?	12.74	13.59

-/- and +/? is the homozygous allele of B73 and By804 based on the 11-bp InDel, respectively; BHO is the Beijing high-oil lines; Lancaster and Reid is the Lancaster and Reid heterotic group, respectively; RHO represents the high-oil population from Reid heterotic group.