Table S3. Content (mean ± SD) of fat and fatty acids in the milk of Polish Red-White, Polish Red and Polish Holstein-Friesian Red-White cows depending on the SNP g.16060A/C (SNP 3) genotype of the FASN gene.

Trait (%)	ZR Genotype			RP Genotype			RW Genotype		
	CC (*n*=64)	AC (*n*=27)	AA (*n*=3)	CC (*n*=97)	AC (*n*=47)	AA (*n*=3)	CC (*n*=168)	AC (*n*=58)	AA (*n*=15)
Fat	3.77 ±0.83	4.09 ±0.75	4.74 ±0.55	4.43 ±0.94	4.63 ±0.86	4.01 ±0.50	4.19 ±0.78	4.30 ±1.31	4.29 ±0.80
C4:0	0.73 ±0.40	0.67 ±0.40	0.47 ±0.12	0.70 ±0.38	0.81 ±0.43	0.68 ±0.49	0.75 ±0.32	0.84 ±0.34	0.67 ±0.30
C6:0	0.91 ±0.32	0.86 ±0.32	0.77 ±0.12	0.83 ±0.29	0.95 ±0.33	0.92 ±0.46	0.94 ±0.25	0.93 ±0.22	0.91 ±0.24
C8:0	0.76 ±0.21	0.73 ±0.24	0.73 ±0.14	0.65 ±0.20	0.75 ±0.22	0.72 ±0.26	0.80 ±0.17	0.78 ±0.16	0.82 ±0.16
C10:0	2.02 ±0.54	1.95 ±0.69	2.12 ±0.38	1.65 ±0.54	1.92 ±0.57	1.80 ±0.58	2.16 ±0.51	2.19 ±0.70	2.32 ±0.55
C11:0	0.18 ±0.06	0.12 ±0.05	nm nm	0.05 ±0.02	0.05 ±0.02	nm nm	0.27 ±0.72	0.05 ±0.01	0.12 ±0.01
C12:0	2.61 ±0.70	2.54 ±0.93	2.82 ±0.69	2.12 ±0.63	2.38 ±0.63	2.10 ±0.46	2.81 ±0.72	2.96 ±1.15	3.09 ±0.78
C13:0	0.07 ±0.03	0.08 ±0.06	0.08 ±0.01	0.06 ±0.02	0.06 ±0.02	0.04 ±0.01	0.11 ±0.06	0.11 ±0.03	0.08 ±0.03
C14:0	9.67 ±1.81	9.42 ±2.08	10.80 ±2.21	8.73 ±1.68	9.41 ±1.92	9.24 ±2.35	10.44 ±1.56	10.36 ±2.52	10.93 ±1.96
C15:0	1.10 ±0.21	1.13 ±0.29	1.28 ±0.07	1.25 ±0.26	1.15 ±0.18	1.24 ±0.26	1.20 ±0.30	1.26 ±0.37	1.22 ±0.37
C16:0	26.61 ±4.59	27.85 ±5.43	31.24 ±2.41	26.09 ±4.14	27.41 ±3.98	27.15 ±6.20	30.27 ±4.01	30.67 ±4.43	31.32 ±5.01
C17:0	0.65 ±0.16	0.69 ±0.18	0.72 ±0.16	0.79 ±0.16	0.73 ±0.10	0.91 ±0.12	0.66 ±0.14	0.67 ±0.11	0.69 ±0.15
C18:0	11.01^{f} ±2.25	11.44 ±2.34	9.24^{f} ±1.59	$11.92^{G,H}$ ±2.11	$12.23^{G,H,i}$ ±2.25	$16.67^{a,c,G,H,I}$ ±2.31	$10.64^{D,E,F}$ ±2.27	$9.86^{D,E,F}$ ±2.41	$9.76^{e,F}$ ±2.20
C20:0	0.14^{g} ±0.04	0.17 ±0.10	0.12 ±0.01	0.17 ±0.05	0.17 ±0.04	0.23 ±0.01	0.17^{a} ±0.04	0.17 ±0.03	0.16 ±0.03
Σ SFA	56.34 ±6.49	57.47 ±7.35	60.31 ±5.49	54.92 ±6.49	57.92 ±6.81	61.64 ±12.71	60.65 ±5.95	60.59 ±7.21	61.79 ±7.50
C14:1	1.46 ±1.02	1.22 ±0.30	1.34 ±0.36	1.29 ±0.26	1.24 ±0.23	1.03 ±0.23	1.43 ±0.30	1.45 ±0.33	1.48 ±0.33
C16:1	5.39 ±1.59	5.64 ±1.91	6.53 ±2.89	5.35 ±1.87	4.67 ±1.94	3.87 ±1.51	4.51 ±1.84	4.92 ±2.03	4.89 ±1.66
C17:1	0.37 ±0.10	0.37 ±0.14	0.42 ±0.16	0.46 ±0.09	0.47 ±0.12	0.48 ±0.01	0.33 ±0.13	0.34 ±0.15	0.35 ±0.11
C18:1n9c	20.73 ±4.34	20.42 ±4.45	18.85 ±0.37	22.28 ±3.42	22.34 ±3.32	20.64 ±3.84	21.58 ±4.05	21.88 ±6.06	21.06 ±5.53
C18:1n8c(11c)	0.78 ±0.31	0.75 ±0.23	0.69 ±0.11	0.80 ±0.23	0.85 ±0.28	0.76 ±0.18	0.96 ±0.29	0.94 ±0.35	0.89 ±0.38
C18:1n9t	1.24 ±0.64	$1.48^{E,G,H}$ ±0.79	1.18 ±0.54	1.22 ±0.58	0.90^{B} ±0.57	1.00 ±0.86	0.99^{B} ±0.55	1.00^{B} ±0.59	0.94 ±0.54
C18:1n7t	3.11 ±1.27	2.54 ±1.24	1.54 ±1.02	3.26 ±1.44	3.00 ±1.53	3.15 ±1.14	1.97 ±1.03	1.60 ±1.00	1.44 ±0.63
other *trans*18:1	0.38 ±0.33	0.30 ±0.12	0.23 ±0.13	0.25 ±0.07	0.26 ±0.12	0.25 ±0.01	0.43 ±0.19	0.37 ±0.14	0.45 ±0.31

C18:2n6c	1.16	1.19	0.96	1.24	1.19	1.15	1.64	1.58	1.58
	±0.35	±0.39	±0.31	±0.29	±0.31	±0.04	±0.35	±0.28	±0.31
CLA	1.26	0.96	0.64	1.32	1.08	0.88	0.65	0.55	0.58
	±0.60	±0.49	±0.35	±0.66	±0.57	±0.79	±0.31	±0.18	±0.26
C18:3n3	0.78	0.79	0.68	0.93	0.84	0.98	0.51	0.44	0.52
	±0.25	±0.31	±0.21	±0.28	±0.19	±0.18	±0.25	±0.10	±0.18
C20:1	0.08	0.08	0.06	0.07	0.10	0.06	0.12	0.19	0.14
	±0.05	±0.03	±0.02	±0.04	±0.05	±0.01	±0.05	±0.06	±0.05
C20:4n6	0.09	0.09	0.07	0.08	0.09	0.08	0.12	0.13	0.11
	±0.05	±0.04	±0.01	±0.03	±0.03	±0.01	±0.04	±0.04	±0.05
C20:5n	0.07	0.07	0.06	0.07	0.08	0.07	0.07	nm	0.06
(*cis*-5,8,11,14,17)	±0.03	±0.02	±0.01	±0.03	±0.03	±0.01	±0.02	nm	±0.02
Σ UFA	36.51	35.47	33.09	38.46	36.91	34.14	34.90	35.03	33.87
	±4.98	±5.28	±2.43	±4.55	±4.64	±8.74	±5.09	±6.83	±6.43
SFA+UFA	92.86	92.94	93.39	93.38	94.83	95.78	94.58	95.62	95.66
	±2.90	±3.27	±3.07	±2.79	±3.02	±3.97	±8.70	±2.18	±2.10

SFAs—saturated fatty acids; UFAs—unsaturated fatty acids; ZR—Polish Red-White breed; RP—Polish Red breed; RW—Polish Holstein-Friesian Red-White breed; n—number of animals; a, c, e, f, g, i—values differ significantly between SNP g.16060A/C (SNP 3) genotypes within rows ($p<0.05$); B, D, E, F, G, H, I—values differ highly significantly between SNP g.16060A/C (SNP 3) genotypes within rows ($p<0.01$); p—probability; a—CC polymorphism variant of the SNP g.16060A/Cfor the ZR cows; B—ACpolymorphism variant of the SNP g.16060A/Cfor the ZR cows; c—AA polymorphism variant of the SNP g.16060A/Cfor the ZR cows; D—CC polymorphism variant of the SNP g.16060A/C for the RP cows; e, E—ACpolymorphism variant of the SNP g.16060A/C for the RP cows; f, F—AA polymorphism variant of the SNP g.16060A/C for the RP cows; g, G—CC polymorphism variant of the SNP g.16060A/C for the RW cows; H—AC polymorphism variant of the SNP g.16060A/C for the RW cows; i, I—AA polymorphism variant of the SNP g.16060A/C for the RW cows; nm—not marked; SD—standard deviation.