77 Table S4. Pearson correlation coefficient (n = 24) between metabolites of Hanwoo and Chikso
78 beef cuts and their sensor values of electronic tongue.

Item	AHS	PKS	CTS	NMS	CPS	ANS	SCS
Rump cut							
Acetate	0.35	0.35	0.20	0.31	-0.26	-0.06	0.32
Alanine	0.16	0.25	0.07	0.34	-0.32	-0.14	0.14
Anserine	-0.11	0.01	0.02	0.28	-0.48	-0.48	-0.15
Asparagine	0.20	0.24	0.22	0.26	-0.27	-0.10	0.15
Carnosine	-0.11	-0.04	-0.01	0.09	-0.28	-0.40	-0.11
Creatine	-0.07	0.14	0.04	-0.03	-0.22	0.01	-0.09
Ethanol	-0.22	-0.23	0.12	-0.26	-0.04	0.08	-0.27
Formate	0.25	0.07	0.13	0.32	-0.18	-0.22	0.22
Fumarate	0.05	0.09	0.09	0.27	-0.25	-0.17	0.02
Glutamate	0.09	0.18	0.15	0.23	-0.33	-0.16	0.04
Glycine	-0.42	-0.23	0.16	-0.09	-0.26	-0.32	-0.49
Hypoxanthine	0.30	0.34	0.02	**0.55**	-0.29	-0.28	0.31
IMP	-0.20	-0.17	0.01	**-0.54**	0.36	0.41	-0.20
Inosine	-0.01	0.29	0.17	0.03	0.08	0.31	-0.06
Isoleucine	0.05	0.19	0.13	0.22	-0.34	-0.17	0.00
Lactate	0.04	0.22	0.10	0.20	-0.27	-0.05	0.01
L-Carnitine	0.35	0.50	0.20	0.16	0.07	0.41	0.33
Leucine	0.12	0.22	0.18	0.24	-0.31	-0.11	0.07
Methionine	0.12	0.23	0.14	0.27	-0.30	-0.12	0.08
N,N-Dimethylglycine	0.07	0.14	0.25	0.07	-0.11	-0.05	0.03

Niacinamide	0.16	0.36	0.21	0.28	-0.13	0.08	0.11
Phenylalanine	0.12	0.19	0.18	0.28	-0.32	-0.17	0.06
Taurine	0.06	-0.06	-0.03	0.10	-0.32	-0.22	0.05
Tyrosine	-0.06	0.16	0.03	0.13	-0.28	-0.09	-0.08
Uridine	0.08	0.19	0.07	0.33	-0.44	-0.33	0.05
Valine	0.19	0.26	0.18	0.32	-0.28	-0.11	0.14
o-Acetylcarnitine	**-0.53**	**-0.62**	-0.17	-0.32	0.24	-0.05	**-0.52**
Loin cut							
Acetate	**-0.60**	-0.29	0.16	-0.10	-0.11	-0.22	**-0.60**
Alanine	**-0.53**	-0.27	0.10	0.11	-0.14	-0.23	**-0.54**
Anserine	0.30	0.11	-0.23	0.12	0.05	0.02	0.30
Asparagine	**-0.61**	-0.35	0.28	-0.03	-0.20	-0.23	**-0.62**
Carnosine	0.11	-0.32	-0.02	0.07	-0.30	-0.21	0.10
Creatine	0.26	-0.13	-0.14	0.08	-0.18	-0.15	0.26
Ethanol	-0.49	-0.49	0.18	-0.02	-0.35	-0.44	-0.50
Formate	**-0.59**	-0.30	0.10	-0.11	-0.12	-0.31	**-0.60**
Fumarate	**-0.69**	-0.44	0.19	-0.02	-0.31	-0.44	**-0.70**
Glutamate	**-0.58**	-0.23	0.19	-0.09	-0.06	-0.19	**-0.59**
Glycine	0.28	0.34	-0.18	-0.02	0.38	0.24	0.28
Hypoxanthine	-0.30	-0.14	0.11	0.04	-0.08	-0.21	-0.31
IMP	0.18	-0.35	-0.03	0.03	-0.43	-0.23	0.17
Inosine	0.41	-0.06	-0.06	0.07	-0.20	-0.05	0.40
Isoleucine	**-0.54**	-0.29	0.27	0.01	-0.15	-0.17	**-0.55**
Lactate	-0.18	-0.39	0.00	0.07	-0.39	-0.37	-0.19

L-Carnitine	-0.12	0.05	0.07	0.30	0.16	0.25	-0.12
Leucine	**-0.51**	-0.24	0.30	0.01	-0.12	-0.11	**-0.52**
Methionine	-0.47	-0.27	0.24	0.02	-0.13	-0.21	-0.48
N,N-Dimethylglycine	-0.34	-0.41	0.17	-0.06	-0.29	-0.34	-0.35
Niacinamide	**0.51**	0.14	-0.03	0.29	-0.01	0.16	**0.51**
Phenylalanine	**-0.54**	-0.27	0.31	0.02	-0.15	-0.13	**-0.54**
Taurine	0.08	-0.03	-0.03	0.11	-0.10	-0.07	0.08
Tyrosine	-0.47	-0.22	0.26	0.18	-0.22	-0.11	-0.48
Uridine	-0.19	-0.20	0.27	-0.11	-0.13	-0.20	-0.20
Valine	**-0.60**	-0.30	0.28	-0.02	-0.17	-0.18	**-0.61**
o-Acetylcarnitine	0.33	-0.07	-0.12	0.15	-0.27	-0.18	0.33

Pearson correlation coefficients with bold letters indicate that the coefficients showed $|r| > 0.05$ and $p < 0.01$.

The electronic tongue sensors AHS, CTS, NMS, ANS, and SCS respond to sour, salty, umami, sweet, and bitterness, respectively, whereas PKS and CPS represent universal taste intensity.