

**Table S20.** Pairwise genetic relatedness ( $r$ ) among Samae Dam chicken populations derived from the Department of Livestock, Uthai Thani (SD1) and the Sanhawatt Farm, Uthai Thani (SD2)

Sample 1	Sample 2	$r$	Sample 1	Sample 2	$r$
SDM1	SDM2	0.143	SDM5	SDM10	0.003
SDM1	SDM3	0.084	SDM6	SDM10	-0.012
SDM2	SDM3	0.075	SDM7	SDM10	-0.009
SDM1	SDM4	0.074	SDM8	SDM10	0.022
SDM2	SDM4	0.093	SDM9	SDM10	0.232
SDM3	SDM4	0.059	SDM1	SDFM1	-0.022
SDM1	SDM5	0.054	SDM2	SDFM1	-0.041
SDM2	SDM5	0.120	SDM3	SDFM1	-0.030
SDM3	SDM5	0.052	SDM4	SDFM1	-0.018
SDM4	SDM5	0.064	SDM5	SDFM1	-0.045
SDM1	SDM6	0.092	SDM6	SDFM1	-0.052
SDM2	SDM6	0.123	SDM7	SDFM1	-0.056
SDM3	SDM6	0.134	SDM8	SDFM1	-0.015
SDM4	SDM6	0.077	SDM9	SDFM1	-0.003
SDM5	SDM6	0.127	SDM10	SDFM1	0.041
SDM1	SDM7	0.090	SDM1	SDFM2	-0.045
SDM2	SDM7	0.071	SDM2	SDFM2	-0.054
SDM3	SDM7	0.095	SDM3	SDFM2	-0.026
SDM4	SDM7	0.067	SDM4	SDFM2	-0.035
SDM5	SDM7	0.108	SDM5	SDFM2	-0.035
SDM6	SDM7	0.098	SDM6	SDFM2	-0.026
SDM1	SDM8	0.101	SDM7	SDFM2	-0.033
SDM2	SDM8	0.062	SDM8	SDFM2	-0.046
SDM3	SDM8	0.072	SDM9	SDFM2	-0.027
SDM4	SDM8	0.051	SDM10	SDFM2	-0.021
SDM5	SDM8	0.048	SDFM1	SDFM2	0.124
SDM6	SDM8	0.079	SDM1	SDFM3	-0.039
SDM7	SDM8	0.240	SDM2	SDFM3	-0.054
SDM1	SDM9	-0.009	SDM3	SDFM3	-0.041
SDM2	SDM9	0.007	SDM4	SDFM3	-0.029
SDM3	SDM9	-0.015	SDM5	SDFM3	-0.044
SDM4	SDM9	0.010	SDM6	SDFM3	-0.043
SDM5	SDM9	0.016	SDM7	SDFM3	-0.052
SDM6	SDM9	-0.015	SDM8	SDFM3	-0.040
SDM7	SDM9	0.015	SDM9	SDFM3	-0.017
SDM8	SDM9	-0.023	SDM10	SDFM3	-0.022
SDM1	SDM10	0.015	SDFM1	SDFM3	0.101
SDM2	SDM10	0.017	SDFM2	SDFM3	0.157
SDM3	SDM10	0.007	SDM1	SDFM4	-0.026
SDM4	SDM10	0.026	SDM2	SDFM4	-0.045

Sample 1	Sample 2	<i>r</i>
SDM3	SDFM4	-0.008
SDM4	SDFM4	-0.021
SDM5	SDFM4	-0.042
SDM6	SDFM4	-0.020
SDM7	SDFM4	-0.052
SDM8	SDFM4	-0.040
SDM9	SDFM4	-0.012
SDM10	SDFM4	-0.007
SDFM1	SDFM4	0.116
SDFM2	SDFM4	0.135
SDFM3	SDFM4	0.105
SDM1	SDFM5	-0.021
SDM2	SDFM5	-0.049
SDM3	SDFM5	-0.012
SDM4	SDFM5	-0.011
SDM5	SDFM5	-0.025
SDM6	SDFM5	-0.011
SDM7	SDFM5	-0.046
SDM8	SDFM5	-0.024
SDM9	SDFM5	0.011
SDM10	SDFM5	-0.005
SDFM1	SDFM5	0.003
SDFM2	SDFM5	-0.002
SDFM3	SDFM5	-0.004
SDFM4	SDFM5	0.027
SDM1	SDFM6	-0.055
SDM2	SDFM6	-0.043
SDM3	SDFM6	-0.018
SDM4	SDFM6	-0.041
SDM5	SDFM6	-0.050
SDM6	SDFM6	-0.049
SDM7	SDFM6	-0.062
SDM8	SDFM6	-0.052
SDM9	SDFM6	-0.010
SDM10	SDFM6	-0.027
SDFM1	SDFM6	0.057
SDFM2	SDFM6	0.010
SDFM3	SDFM6	-0.011
SDFM4	SDFM6	0.002
SDFM5	SDFM6	0.175
SDM1	SDFM7	-0.052
SDM2	SDFM7	-0.069
SDM3	SDFM7	-0.039

Sample 1	Sample 2	<i>r</i>
SDM4	SDFM7	-0.037
SDM5	SDFM7	-0.049
SDM6	SDFM7	-0.046
SDM7	SDFM7	-0.069
SDM8	SDFM7	-0.055
SDM9	SDFM7	0.003
SDM10	SDFM7	-0.017
SDFM1	SDFM7	0.012
SDFM2	SDFM7	-0.005
SDFM3	SDFM7	0.012
SDFM4	SDFM7	-0.001
SDFM5	SDFM7	0.178
SDFM6	SDFM7	0.167
SDM1	SDFM8	-0.039
SDM2	SDFM8	-0.034
SDM3	SDFM8	0.024
SDM4	SDFM8	-0.029
SDM5	SDFM8	-0.043
SDM6	SDFM8	-0.045
SDM7	SDFM8	-0.032
SDM8	SDFM8	-0.037
SDM9	SDFM8	-0.030
SDM10	SDFM8	-0.043
SDFM1	SDFM8	-0.007
SDFM2	SDFM8	-0.008
SDFM3	SDFM8	0.018
SDFM4	SDFM8	-0.002
SDFM5	SDFM8	0.002
SDFM6	SDFM8	0.009
SDFM7	SDFM8	0.007
SDM1	SDFM9	-0.038
SDM2	SDFM9	-0.055
SDM3	SDFM9	-0.027
SDM4	SDFM9	0.008
SDM5	SDFM9	-0.042
SDM6	SDFM9	-0.049
SDM7	SDFM9	-0.051
SDM8	SDFM9	-0.031
SDM9	SDFM9	-0.042
SDM10	SDFM9	-0.028
SDFM1	SDFM9	0.014
SDFM2	SDFM9	0.020
SDFM3	SDFM9	0.035

Sample 1	Sample 2	<i>r</i>
SDFM4	SDFM9	0.020
SDFM5	SDFM9	0.011
SDFM6	SDFM9	-0.013
SDFM7	SDFM9	0.009
SDFM8	SDFM9	0.157
SDM1	SDFM10	-0.041
SDM2	SDFM10	-0.048
SDM3	SDFM10	-0.030
SDM4	SDFM10	-0.030
SDM5	SDFM10	-0.045
SDM6	SDFM10	-0.044
SDM7	SDFM10	-0.047
SDM8	SDFM10	-0.050
SDM9	SDFM10	-0.047
SDM10	SDFM10	-0.040
SDFM1	SDFM10	0.003
SDFM2	SDFM10	0.000
SDFM3	SDFM10	0.007
SDFM4	SDFM10	0.000
SDFM5	SDFM10	-0.015
SDFM6	SDFM10	-0.031
SDFM7	SDFM10	0.069
SDFM8	SDFM10	0.142
SDFM9	SDFM10	0.195
SDM1	SD1	-0.124
SDM2	SD1	-0.124
SDM3	SD1	-0.124
SDM4	SD1	-0.109
SDM5	SD1	-0.120
SDM6	SD1	-0.119
SDM7	SD1	-0.133
SDM8	SD1	-0.131
SDM9	SD1	-0.123
SDM10	SD1	-0.127
SDFM1	SD1	-0.147
SDFM2	SD1	-0.126
SDFM3	SD1	-0.144
SDFM4	SD1	-0.135
SDFM5	SD1	-0.142
SDFM6	SD1	-0.134
SDFM7	SD1	-0.135
SDFM8	SD1	-0.131
SDFM9	SD1	-0.131

Sample 1	Sample 2	<i>r</i>
SDFM10	SD1	-0.126
SDM1	SD2	-0.125
SDM2	SD2	-0.116
SDM3	SD2	-0.125
SDM4	SD2	-0.104
SDM5	SD2	-0.125
SDM6	SD2	-0.132
SDM7	SD2	-0.140
SDM8	SD2	-0.125
SDM9	SD2	-0.123
SDM10	SD2	-0.128
SDFM1	SD2	-0.119
SDFM2	SD2	-0.119
SDFM3	SD2	-0.115
SDFM4	SD2	-0.119
SDFM5	SD2	-0.119
SDFM6	SD2	-0.073
SDFM7	SD2	-0.113
SDFM8	SD2	-0.125
SDFM9	SD2	-0.125
SDFM10	SD2	-0.121
SD1	SD2	0.399
SDM1	SD3	-0.145
SDM2	SD3	-0.136
SDM3	SD3	-0.145
SDM4	SD3	-0.128
SDM5	SD3	-0.145
SDM6	SD3	-0.158
SDM7	SD3	-0.153
SDM8	SD3	-0.141
SDM9	SD3	-0.127
SDM10	SD3	-0.124
SDFM1	SD3	-0.132
SDFM2	SD3	-0.139
SDFM3	SD3	-0.135
SDFM4	SD3	-0.139
SDFM5	SD3	-0.127
SDFM6	SD3	-0.097
SDFM7	SD3	-0.124
SDFM8	SD3	-0.122
SDFM9	SD3	-0.094
SDFM10	SD3	-0.125
SD1	SD3	0.349

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Sample 1	Sample 2	<i>r</i>
SD2	SD3	0.402
SDM1	SD4	-0.129
SDM2	SD4	-0.135
SDM3	SD4	-0.129
SDM4	SD4	-0.121
SDM5	SD4	-0.142
SDM6	SD4	-0.136
SDM7	SD4	-0.157
SDM8	SD4	-0.142
SDM9	SD4	-0.115
SDM10	SD4	-0.120
SDFM1	SD4	-0.115
SDFM2	SD4	-0.115
SDFM3	SD4	-0.110
SDFM4	SD4	-0.090
SDFM5	SD4	-0.110
SDFM6	SD4	-0.110
SDFM7	SD4	-0.108
SDFM8	SD4	-0.133
SDFM9	SD4	-0.133
SDFM10	SD4	-0.129
SD1	SD4	0.483
SD2	SD4	0.448
SD3	SD4	0.541

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