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SEQUENCE LISTING

<110> Lohmann Tierzucht GmbH

<120> Genetic variations associated with feather pecking behaviour in
avians

<130> P1857 PCT

<150> EP 08 01 3669.0

<151> 2008-07-30

<160> 101

<170> PatentIn version 3.3

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<212> DNA

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<212> PRT
<213> Gallus gallus

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Pro Gln Gly Ser Glu Gly Lys Ala Glu Arg Arg Glu Glu Val Thr Ala
 35 40 45

Val Thr Val Met Ala Ala Asp Ala Glu His Ile Glu Met Gly Ala Glu
 50 55 60

Pro Leu Pro Ser Ala Asp Glu Ala Ala Ala Phe Ala Glu Val Thr Thr
 65 70 75 80

Val Thr Val Ala Asn Val Gly Ala Ser Ala Asp Asn Val Phe Thr Thr
 85 90 95

Ser Val Ala Asn Ala Ala Ser Ile Ser Gly His Val Leu Ser Gly Arg
 100 105 110

Thr Ala Leu Gln Ile Gly Asp Ser Leu Asn Thr Glu Lys Ala Thr Leu
 115 120 125

Ile Val Val His Thr Asp Gly Ser Ile Val Glu Thr Thr Gly Leu Lys
 130 135 140

Gly Pro Ser Ala Pro Leu Thr Pro Gly Pro Gln Ser Pro Pro Thr Pro
 145 150 155 160

Leu Ala Thr Val Gln Glu Lys Thr Gly Thr Lys Tyr Asn Trp Asp Pro
 165 170 175

Ser Val Tyr Asp Asn Glu Leu Pro Val Arg Cys Arg Asn Ile Ser Gly
 180 185 190

Ile Leu Tyr Lys Asn Arg Leu Gly Ser Gly Gly Arg Gly Arg Cys Ile
 195 200 205

Lys Gln Gly Asp Asn Trp Tyr Ser Pro Thr Glu Phe Glu Ala Met Ala
 210 215 220

Gly Arg Ala Ser Ser Lys Asp Trp Lys Arg Ser Ile Arg Tyr Ala Gly
 225 230 235 240

Arg Pro Leu Gln Cys Leu Ile His Asp Gly Ile Leu Asn Pro His Ala
 245 250 255

Ala Ser Cys Thr Cys Ala Ala Cys Cys Asp Asp Met Thr Leu Ser Gly
 260 265 270

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Pro Ile Arg Leu Phe Val Pro Tyr Lys Arg Arg Lys Lys Glu Asn Glu
275 280 285

Met Ser Ala Asn Pro Val Lys Lys Glu Ser Ser Lys Asn Ile Thr Leu
290 295 300

Leu Pro Ala Thr Ala Ala Thr Thr Phe Thr Val Thr Pro Ser Gly Gln
305 310 315 320

Ile Thr Thr Ser Gly Ala Leu Thr Phe Asp Arg Thr Ser Thr Val Glu
325 330 335

Ala Thr Ala Ile Ile Ser Glu Ser Pro Ala Gln Gly Asp Val Phe Thr
340 345 350

Gly Ala Thr Val Gln Asp Thr Asn Val Gln Gln Pro Cys Arg Val Ala
355 360 365

His Pro Glu Pro His Tyr Pro Thr Tyr Gln Asp Asn Cys Gln Ile Ser
370 375 380

Pro Phe Pro Glu Ala Ala Leu Pro Thr Ser His Pro Lys Ile Val Leu
385 390 395 400

Thr Pro Ile Pro Ala Leu Ser Val Pro Pro Gln Thr Pro Thr Lys Ala
405 410 415

Ile Ser Pro Thr Val Val Asn Gly Leu Glu Val Thr Glu Gln Arg Ser
420 425 430

Trp Leu Tyr Leu Glu Glu Met Val Asn Ser Leu Leu Asn Thr Ala Gln
435 440 445

Gln Leu Lys Ser Leu Ile Glu Gln Ala Lys Gln Ala Ser Ser Ser Phe
450 455 460

Arg Glu Ala Ala Val Thr Gln Ala Lys Ile Gln Ala Asp Val Glu Arg
465 470 475 480

Lys Glu Gln Ser Cys Val Asn Cys Gly Arg Glu Ala Met Asn Glu Cys
485 490 495

Thr Gly Cys His Lys Val Asn Tyr Cys Ser Thr Phe Cys Gln Arg Lys
500 505 510

Asp Trp Lys Glu His Gln His Ile Cys Gly Glu Ala Asn Ala Val Thr
515 520 525

Val Gln Ala Asp Asp Val His Val Ala Asp Asn Val Met Glu Lys Val
530 535 540

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Ser Val
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<213> Gallus gallus

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Pro Pro Pro Pro Pro Pro Pro Pro Ala Gly His Asn Ile Ala Ala Leu
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Val Leu Gly Ile Val Leu Ile Leu Leu Ile Val Gly Gly Asn Gly Leu
35 40 45

Val Cys Leu Ser Val Cys Thr Glu Arg Ala Leu Lys Thr Thr Thr Asn
50 55 60

Tyr Phe Ile Val Ser Leu Ala Val Ala Asp Leu Leu Leu Ala Leu Leu
65 70 75 80

Val Leu Pro Leu Tyr Val Tyr Ser Glu Phe Gln Gly Gly Val Trp Ser
85 90 95

Leu Ser Thr Val Leu Cys Asp Ala Leu Met Thr Met Asp Val Met Leu
100 105 110

Cys Thr Ala Ser Ile Phe Asn Leu Cys Ala Ile Ser Val Asp Arg Phe
115 120 125

Ile Ala Val Ser Val Pro Leu Asn Tyr Asn Arg Arg Gln Ile Asp Leu
130 135 140

Arg Gln Leu Ile Leu Ile Ser Thr Thr Trp Ile Phe Ala Phe Ala Val
145 150 155 160

Ala Ser Pro Val Ile Phe Gly Leu Asn Asn Val Pro Asn Arg Asp Pro
165 170 175

Ser Leu Cys Gln Leu Glu Asp Asp Asn Tyr Ile Val Tyr Ser Ser Ile
180 185 190

Cys Ser Phe Phe Ile Pro Cys Pro Val Met Leu Val Leu Tyr Cys Ala
195 200 205

Met Phe Gln Gly Leu Lys Arg Trp Glu Glu Ala Arg Lys Ala Lys Leu
210 215 220

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Arg Gly Gly Ile Tyr Gly Gly Asn Arg Met Leu Tyr His Pro Ser Pro
225 230 235 240

Phe Ile Glu Arg Glu Arg Val Gly Met Glu Pro Glu Glu Tyr His Pro
245 250 255

Tyr Ala His Pro Glu His Pro Leu Ser Gly Asp Tyr Val Met Ser Asn
260 265 270

Gly Leu Gln Thr Val Ser Tyr Pro His Leu Lys Tyr Pro His Pro Ala
275 280 285

His Gly Gln Lys Arg Ala Lys Ile Asn Gly Arg Glu Arg Lys Ala Met
290 295 300

Arg Val Leu Pro Val Val Val Gly Ala Phe Leu Phe Cys Trp Thr Pro
305 310 315 320

Phe Phe Val Val His Ile Thr Arg Ala Leu Cys Lys Ser Cys Thr Ile
325 330 335

Pro Thr Gln Val Thr Ser Ile Val Thr Trp Leu Gly Tyr Val Asn Ser
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Phe Phe Arg Lys Val Leu His Leu Phe Cys
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<223> /note="Description of artificial sequence: DRD4 primer"

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 <210> 53
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