

U.S. Veterinary Immune Reagent Network
Complete and Partial CDS for Cytokines, Chemokines, and Cell Surface
Molecules
December 17, 2009

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CATFISH

Start and stop codons are underlined. Probable coding errors are highlighted in red. Nucleotides in lower case indicate deletions with respect to reference sequences.

Header format:

(Gene Name)

(Complete/Partial CDS) (Clone ID if available) (GenBank Accession Number if available)

Beta 2-m

Complete CDS AF016041

ATATGAAGTTTCTGCTTTCCTTCGTCGTTCTCGCTGTTTTTCAGCGCAAGTGCCTTTG
CTAAGGAGTCTCCACCAAAAATCCAGGTTTACAGTCGTAACCCTGGTGAGTTTGGC
AAAGAGAACACACTGATCTGCCACGTGAGTGACTTCCACCCCCCAGACATTACAAT
TGACCTGCTGAAGAATGGCGAGGTGATTCCAAATGCAGAACAGACCGACCTGGCC
TTTGAGAAGGGATGGAAGTTTCATCTGACCAAGAGCGTCTCCTTCACTCCCACCAG
CAATGACAAATTCACCTGCAGAGTCAGACACCTGAAGGAAACGAAGAACATCTCCT
GGGAGCCAGACATGTAACCCTCCTGGGCTTCATTCCAGCTGGCGACTGTTTCTTTCC
ATACTCGCAGCAATGATACTACTTTTTGACCATCAAACAATCTCTCAACAGTAAAAT
TAACTTCTCTGTATATCTGTCAATATAGGGCTGGGTGATATAATAAAAATATGATTAA
AATAAAGTCATGTGATACTTGAAAACACCTTCCAGATATAACAATATGGTGTTTAGTT
TCACTTAGGTTTTGCTATCAAAGAGGCCAAAAATATTTAATGAAAAAGCATGAATTA
TTTGATTCAACATTCACTAAAGATTCAAACAATTAACGAGGTAATGGATAGAAATGT
ATTTGTTACAGTGAGCAATAGTGGCGTAAATAAATTAACATAAAAGAAGGCCAACAAAT
ATTAGTCGTATCACCCAGC
CCTATGTGTCATCCACTTTTTAGTTAATCAAGCAATATCTTTACAATTTAGTATAAAC
TAGAATTTTATGCGGTTTGGATAAATTAATTACATAGTTAATGTAAGTTTTCTTTTTTT
AATGGTGTATAATTGTTGCCTATCTTCTTTTCTTCTAATCCATTATCTTGTGTAAAGT
TTGATACCTGTCTCTGTTTGTTCATTACCCTTATTTTATGCTCCTTTAAAATGAAA
ATGAACTCTTCTCTTGGAGTTTGAATAAGTGCTGATTATGATGTA
AAAAGATAATAAAA
ATTCTGTCCCTCTCCCCAAAAA

CD3 gamma/delta

Complete CDS FJ804169

CCACGCGTCCGGACTTACAGTGAAGAAGAGTGTGTATTTGGGTCAGAAGTCTGAA
CAAGATGAAGTGGAGAAGTTTGTTGTTTCTTTTTACCTGCTTGCTGATGCAGAAATT
GGTCTCTGGCCAAGAAAATGAACTATTCAAAGTGAAGAAGACACAGGATCTCTTTA
CATTGAGATGCAATAATGGCAAATGGAACTTGGAAAATGGAAATACACCAGATGAG
ATCAATTTACCCTACAAAGATTTAAATTCTGTGTATACGTGTTCTAAAAATGAAAAA
TCTATGAAATTACAATTAATTCAGAACTTGTGACAACTGTATTGAGCTGGACACAC
CTGCCTTGACTGCCATCATCGTGGGGAACATTTTGGCCACCTTTCTCATTGCCTTT
GCGGTTTATAGCATTACAGCGCAGCCCAAAGGCCAAAACTTCTCTGGCAACAAAGC
ATCAGATAAAGTGAATCTAATCACCAACGGAGATAGAGAAACGTATCAGCAACTGA
ATCCAGGTCAGAATTCCGAGTACAGCAGGCTGGAAGTCAGACATAAATGATCATCG
TCATAATCATCATCACTTTCATATGACGCCATCTTTAAATTCAGATTTGACTCAACTG
GTCATGGGAACCCCAACGTCTGTTTCGTACAAAAAATACA

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CD4-1

Complete CDS DQ435301

ATGAGCTTCTTATTGGGGTTATTGCTTCTTCTGGCTCCATGTCACTCAGCTGCAGAT
GAACCAAAGGGGATTTTTGCACAGTTCGGAACTCTGTTACTCTTCCCAGGAGGAT
ATGGGGGATAGAAGGCCAAAATTCATGTCAACTGGTACTTCCAGGATAACTTACTAA
TTAGTAGGAATCCTACATTATCCGCTTCAAAAACAGTGCACAACCGATTCTCTCTTT
CATCAGACTCATCTCTTATYATTTCTAATGTTGAAAAGTCTGACTTTTGGAAATTTCAA
ATGTGAACAGCATCACCTTGTGGAACTATTACAGACACATATAAACTTTATGAAGT
AATGATGTCTACACCGCCACCACTGCTGGTTGGTGCCAGTCTCGATCTGTCCTGTG
AAATTGAAAGTGAAGGATTTAACTTGTTTCATGAAATAAAATGGTTCGGGCCTGATA
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GTCTCCAGCATTACAGTGGAAAGTGGACCTGTGCAGTGCAGGATGGTGCTAGCA
TCACATTAAGGCCAGAACAGATGTCATCATTGTAGATCTCGCCTCCTCTTACCG
GATCCCATCTATACATCTGACTCCTCCATTAATTTCTTATCCCYTGTTCCTTATCCT
CAAAAATTCCTGGTCCACAGTGAATGCCACAGGTGTGACGGGAGGTAGCTGGCA
TTTCACTCCATTTAAATCTTCTGAATCCTCGCTCCCTCTCCTCAAATTACAACCTCAAT
CCCTCCCCTGCCTGGAAGTTCGCCAGTGGCACACACACCTTGCTCATGGAGACTG
ATTTGAAAATCATGAACTCGGTGTGAAGATTTCCAAGGTGTCTATAAATGAAAGG
GGGAACTACACCTGCAGTCTCGAGTTCGGGTCAAGAACACTCAGCAGGAGCGTGC
AGGTAGAGGTGCTGCAAGTTATTTCTTCAAGAGTAAAGTTATATATGAGGGTAAC
ACAGTGAACCTGACCTGCACGCTGGGTCATCACATGACCCCTGACCTGGAAGTGA
ACTGGATACCTCCCTATGGTTCATCTCTGTCAAACTCAGCCCTCCTTATACCACAA
TGCTGTCTATCCCTGGAGTAAGTGTGAAGGACAGCGGGCGATGGACATGTCAACT
CAAAAAGAATGCAACATTGCTTACATCAGCTACAATCAGTTTGAAAATAGAGAAAGC
TCCAGTGAATATTTGGCTTGTGTAGCTATTATTGGTGGTCTTCTGGTCTTCATCTT
GATTGCTGTAATAACTGTCTTCATCATTTCGTAGGCACAGACAGATGATGAGGTATA
GATGCCGTAAGGGGAGAGTCTGCTGCTGTAAGAATCCCAAGCCCAAAGGTTTCTA
CAAGACCTGAATGAAGCCTCTTCTTGAACAAAGGAACCTGCTGGACTGAAAAAGCT
GGAGTCCCACATCATAAATGAAGCTTGCTGAGCTGGAGTTTAAAAAATCAAGACA
GTAGAAACAATTCCAACAAAAAACATGTAATAAACATCAGTTACCAGAAATGACTG
TATCAAAAACAAGAAGACGTCATGTAATGCACTTCTTTACAGCTGTACATACATA
AAAGCTTGGTGAATATGTGCTTAGTATAAAACAGTATGAAACAGTACACAAAAACA
GTATGATAAACATTTTCATTGAATATATATATTTTTTATATATATAATCATATATTATCAT
TATAATATCACATAATMTCATATTATTAGATTATTTTATATTTTCATACCAGAATTCATA
TACTTAGCTATACATGCAGCATACTCTATGTGCTTAGCTAACTGATAAACTGATGG
ATRTATATGTGAGTGTGTTTAAAGTGTGTATTCTGTGTAAATAAATATTTAAAAATAT
TTTAAAAA

CD4-2

Complete CDS DQ435302

ATGTTTAGGTCTAAAAACATCCTTTGGATCACCTTTGCTTTTTGTTTAACTCAGGAA
GTTGTACAGACATTTTTCAACAAAGTGGCAGTGACGCAAAAATGGACTGTAGTGGT
GGGGATCCGAAAAAAGCCATAGAATGGAAACGCGGCAACGTCCTGTTGATAGGCA
AAGCCCATCAGGAACAGTGCAGCAGAGGTATAATGGAACTACTAGCAGGGCACG
GATAGATGGAACCACGTTGAAAATCACCCAGCTGAAGACTAGCGACAATGGAGTC
TACACATGCAACTCATATACTTACAACTGTATGTTGTATCAGCCTCTGCGAACCCA

TCTTCAGTTCTGTACTCGAGTGAAACCACCCTAAGCTGTGATGTTGCTGGAGACTT
TAAAGGAACATTTTCAGTGGCTTGAATCAGGTTCTAAACCATATAGCCAAAGTAGGG
AGGTGACTGTAAAAAATGTGACCTCAGATACTGCAAGAATCTGGACCTGCCTGATC
AAAAATGAAAAGAGCAAAGAAATTATTAGGCTAGACGTGAACATCGGTGTTGTTGG
TCCTTTGAACACACCAAGGGAAGTTAAGACTCATGAAGGGGGCAGTGCAGTGCTC
CCGTGTTTTCTACCTACCAAGAGCCAACCTGCCTATAACCGGGGGCTCATGGAAGC
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CAGTTTCAAAAAGGGATGGTGATGATCCTGATATGGATTCTAGAGGTTCTACAGTA
ACGAAAAACAACATGTGGAACAAACGTGTGTGGGGTATGCAGTTGTGGGTCTGGA
TTGCCGTGTCAGCATCTTCTTTTGTCTGATTGGCCTTGTGTGCATCATTCTACTGA
TTCCTGTCAGGAACAAACGGATGAAGAAAAAGATGATGAACTGAAGTCTATGAGG
CAACCCATACATCCAGGAATTACTGCAAGTGTGACAGGCCTGTGAGCCAGGCTG
GTACAGGTAAACGAGGCCGGCCTCCACCTTACCCAGGCACCAGTACAGCTCTTT
AAATGAATAATGGATCAAAATGGAGTGGAGGACAATAACAGGAGATAATAGAGT
TTCAGATCCACCAGGAAAATGCTGATCATAACCTGTATATTTTCATTCTTACATTATC
TTTTTTTTGTTTGTATTCTTTGATTTGAATAATATGGAARCATTTAATAACCAAGAA
TAAGCACATCCTTTGCTGAGTTTTCTWCGTCTGTAATTTGTAATAAGATCTTTTT
CTGAAAATGTTTTATGAAATTTTAGGTTTGCATAACTAGAGTTTACGTTTTACATTT
GCTTAACCTGATTTAATGTATGTTCAATGGTTTGTTTTTTTTCTTCTACTTTAATAAA
CATTGAAATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FcRI

Complete CDS DQ286290

ATGCACTTTTTCCACATCTTCATCGTTTTTATAACATTGCTTGCATGTGTCAGGATG
GATGATATAGATCCCACACCACCCCAAGTGAAGGCCAAAGCCACAGTGAGTTTGG
GAAAGCCGCGGCTGTTCTCAGGGGAAGATGTGCAGATGACTTGCAGTGTCCAGAA
TGACCCTTCATCCAACCTGGACGTATGAGTGGTTCCATGATGGTGAACCTTTGAGCG
CCACAGAAGTGTACAGTTTAAACAAGGCACAAGTCCTGCAAAGTGGAAACTATAACC
TGTAAGGATTGAAGACGATAAAAGCTTGGCCCTATATAGTGCCATCAATTCCAAG
CGACCCTCTTAAATACATGTTGATGGTGGTTGGGTTCTCCTACAAACCCCATTTG
AGCCATTAATTATTGAGGAAAACATGACTCTGACCTGCCGTGTCCGTGATGACCCC
CTCCTGTCAAATGTGATCTTCTACAAGGATGGGGTGGAGTTCAATAAGCAGAAAGG
CACAGATGTGGTGTTCACCAAACCTCACGCTTGAGGATGCTGCCATTTACTCATGCA
GGGCCACATGGATTAAGAACATGGAATATCAGTCTTCCCAGTCTCTGCCTTCTTAT
GTGACTGTATTAGATATATTGGAAACACCCACGATGACGATTGTCGGAGGTCGGG
GTAGAGTAAGGAGTGGGAACAAAGTGGAAATTCAGATGTATTACCAAAGTAAATGCT
AGAGAACAAGACCTGAATATAGAATACTTCTACTTAAAAAATGGCAACAGGCTAGG
ACCTGCTTCTGCCAGAGACACATACGCCATCTCAGAGGTGAACATAAATCATACCG
GAACTACACCTGCAAAGTCCGTATAAGGGCTCTGAATGTGGAGCGGTGGAGTAA
CCAGGTAAACCTGAAGGTCCTGCCTCCTCTGAACCTGTAGACCTTGGGATGTAAGT
TTCTGAGAGCCAGTGTACCAATGCTCCAGCCCTGGAATGCACGAAGCAACACAGC
TATTCAGCTATCATCCAAGTTCTTCACTATTTAGAACTCTTGCATTGTTCACTGT
TTTCTGCCTTTCTCCCATCCATGTGATCACAATTCTGACCTTTAAACGTATGTTATAT
ACTGGATTGATGATGCAAATTATATTTTGAATCTGAGAACTTTTATACCTTTTATTT

CATTTTACAAGAACAGAGATATACCCTTAAATAACAGTTTTCTATTTGATTTGAATA
CATATGCATGATTGGCTTATTTAAATCTTAAAATGCAATACTATTTTACTTTGGAAAC
TATGTGTAATAAATGTTTTTTTTGTTTTTTTACAATCTATCAATAAACACATGGAACAC
ATGAAAAAAAAAAAAAAAAA

IFN type I

Complete CDS AY847295

TGGACACTGACATGGACTGAAGGAGTAGAAAAACAAGCTCAACGAGCCGAGAACG
CGAACATGGACATCAAACCTGTCATGGATCTGTCTTTATTTTCTGCTGTTTTTCACCG
TGCAGGAGCGAAGCGAAGCCTGCAACTGGATGATCAGCCAGTACAGAGCGAAGA
ACGACTACTGTTTGTCACTGCTGAATGAAATGGGTGGAGAGATTGTTCCAATGACA
GGAAACACCTCTTTCCCACGTCGGGCATACCATGAAATCGAGAAGGCCGAGGTAC
AGGCAGAAGATCAGGTGAGGTTTCTGGCTGTGGCCACAAACGAGATCATCATTCT
CTTCAGTGCTGTGTCTCATGTGGATGATGTAAAATGGGACAGCAGGACACTGGATA
ATTTCTGAACATACTTAGTACTCGGCAGTTATCAGAGCTTAGAAATTGTACATCAA
CATATGCTGAAAGAGCAAGACGTTCCACTGAGAAAAACTGAGAAAACACTTC
AAGGATTTGAGGAAATACCTGAAAACTCTAACTACAGCGCAGACTCTTTGGAGCA
AATCAGGAGTGTGGTACAGCGTCACCTTTGGAGGATGGACACAATTGCTGCCATT
GTGAAGCAGAACTACTGAAAAGGACCAACTAAAAAAATCCTTCTAGTTTTGTTAAA
GAAGAACAAGCAGAACATTTAACCATATATGTTATTATTATTATTATCTATAAATTGG
ACCAAATATGGGAATATAAGAATATGAATCTGTAAAAAAAAAAAAAAAAAAAAA

IFN type II 2a

Complete CDS DQ124250

GCATTCAGACTTTGACAGAGGGCGCAGTGAGCACAGCAGTGACTTCAGCCAAAGAG
AACCAACAGGTGACGCGAAAAGACAACCTTTGTGTACGGCACTTGGGAATATCTGTG
GGAATTTGGTAACAGGCTGAACTTGCATAAGAAACGAATTATGACTCTGTTTTGGA
GAATATGTTTTGTCTTTTTTGAATGATGGCGTACTCTGAGGCCTTCCTCCCGAAG
AACATCAAGGAGTCTATTGACCATCTGAATAATCATTATGTAAGAAAAAATCCCAAC
CCTGGCAAATTGTACGATGGTCATTCTCTCTTCTAGACAAGCTAACAAAACAAAA
GTTTGAGGAGAGTGAACAGAAGCTCCTGATGACTATTATTCTCGATGCATACAACA
AAATTTTCACCAAGATGGAGAATGAGACTCAGGATGAAACGCTGAAGAATCACTTG
CACGAAGTGAAAGACCAAATGAACAAGCTGAAAGAACACTACTTCTCCGGCAAACA
TGCAGACATCAAGAAATATGTCACTGAGCTGCTGGACCTTAAGGAAAATGACCCAC
GGATCCAGAGCAAAGCAATATTTGAGCTGAAGGCCGTCTACAATAAGGCAACGAA
CCTGGGGCGCATGTCAGCAGAAAACCCCGGAGACGACGTCAAGCTAAAAGCTC
CAAAAAGCAGCATTCATAACCAAAAAGCTCATTGTTTAGATTGTTACCTAGGAGGT
GCTTTAAGGTGTAGATTTATTTATTCTAATACAGTACCTCATATTTTATATTTTAGTG
ATACTGACATAATTTATTAAGTGTTTAATTCTGAATGTGTTAATTTATTTAATTTGCTA
TTTATTTTGTGAAAGAATGTCCATCGTCTTATTTGGGTTTAGCAATTGTTTATTACTT
GCTAAAGCAAATGTTGTAAGGTCTATGACTAAATAAATTGAAAATATTTATTATAAAA
AAAAAAAAAAAAAAAAAAAAA

IgD

Complete CDS M5 U67437

ATGATGTTAGGACATTGTATTTTATTTCTTCTCATTTTCATATTCTTATGGACAGTCCC
TGACCTCCTCTGCTTCTGTGGTGAAGAGACCTGGAGAGTCAGTCACTCTGTCTGT
ACTGTCTCTGGATTCTCAATGGGCAGCAACTACATGCACTGGATCCGTCAGAAACC
TGGAAAAGGATTGGAGTGGATCGGGCGCATTGACCGTGGCACTGGCACAAACATTC
GCTCAGTCTCTGCAGGGCCAGTTCTCCATCACTAAAGACACAAATAAAAACATGCT
GTACCTAGAAGTGAAGAGTCTGAAAGCTCAAGAAACGGCTGTTTATTACTGTGCAG
GAGAAAATATTGTTATGACTGGGGGGGGAGACTGGGCTTTTGATTACTGGGGAAA
AGGCACAGCTGTCACCGTAACCAGCGCTGTGCAAAGCGCCCCGAAATCCCTGTTT
CCCGTGTGGCAGTGC GGCTCGGCCTCGGACGGTTTAGTCACTCTTGGCTGCGTCA
CGCGCGATTTGGCCTCCGCCGACGGTGTGAGCTTCATATGGAAGGATGCGAGCG
GGAGCGCGCTGACTGACGTCGTGCAATACCCGGCGGTGCAAGCGACCGGAGGGT
ACACCTCGGTGAGCCATGTGCGCGTCAAGGCTTCTGACTGGAACGGGAACAAGAA
GTTACAGTGC GAAGTCAAAAATGGCCTAGGATCTAAAGACGCGTCCTTGCAAAAG
CCAGCTCAGCGTGTGACTGAGCCCAACATCACCATGAGCACCAATACAATGGACA
ACAACGTTAATCTGCTTTGTTGGTTGGATGGTTTTTCTCCGAAAAAATAAGTGTTG
AGTGGTACAAGGGTAATACGTTGCACACAAAGAAGACAACCATGAAGATATTCGAA
AGTCTCAACAATGGAGAAAAGACGTTTGGTGC ACTGAGCCA ACTCAGCATT AATGC
AGAGCAATGGAATGAAGGCACAGAGTTCACCTGTAAAGCCACACACATCTCCAAG
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ACGTCTGGAGAAACCTGGTCTCATGT CAGTATTGACAGATTCAGAAGTAACAGCTT
CCTGTGTTGTTGAAACTGTGCACAATACCAAAGTGTCATGGTTTGTAGATGGAAAG
GAAAAACAGACAGAGTCACCTTGAAGACACTGGACGGGAGAACTGTTAGCAACC
TGACTATCTCGACAAACGATTGGAAAAACTGGCAGACAATAAAATGCACCGCTGCA
CATCTATGTTTTGGCACAGTAGAGAAGACAATTAATATTCTAGAACCTGTGCAGAAA
ACTCCTACAGTGGTGATCAGGAGGAATCTGGCAGACATACTGAAGGGAGACAGTG
CAGTACTGGAGTGTGCTGCAAGAGATCTGCCCTCTGGT GAGCTCTCGGT CATCTT
ACAGGCCAATGGAATAAGGGTCTTTGAACCTCAGTATGTGGATCTGCCCAAAGGA
GTGGACACTCTGACTGCACGCTTCACTGTTTCCACAACACAGAGAAACAAAAACCA
ACGGTTCACCTGTCAGATTCAGCAAAGCCGTTCCAAACAGTGGACGTCCAATTCTA
TAGAAAACCTTTTTGGTGACCCTTCAGTGGAACTTTTAGTTATTTCCAGTGTGGATA
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ATAAAGTGGCTCCCTGAATCTGTAGTAAATGCTCTCAATGGTCTCAGTAAAGTAACA
GTGGATTCAGATGGACGTGTGAAAGTGTCCAGTGAGATTT CAGTTCCACAGCAACA
GTGGAATAATAGAGTTACATTTACCTGCCGAGTCAGCGATCAGGATCCTCTGAAAC
CAGTTGAGAAGAGCACCAGTATTTGTGCAGTGACTCCAGATTTTGCTCAGAAGGCA
CAGGTTTATCTGTTGGCTCCCTCCATCAGTGACATGAGAGCAAATCATGTCTCTGT
CACCTGTCTGCTATTGCGCCACAGGCTCAATGACTTCTCGATTGTTTGGAAAATAG
GAAAGGACAACACCTCTCAGGTGGT GACCACACAACCTCTCAGAGTCCACAGCAA
TGGAAGAGAGAGTGTCCGAAGTATTCTAAAGGTTCCAGCTAGAAAGTGGAAAGGCA
TACACAACTGTTTCTGTGAAGTGACACACCTCTGCTCCACCACAAAAATGGAGCA
CACCATCTCTAAAACCAGAGACCGCAAAAGTCCCACCGTCCGAATTCTCAGTCCTA
GCGATGACGATCTGT CAGGAGTTCGCAACACAAATCTTCTCTGCTTGGTCGACGG
CTTCCGCCCTGCTGATATCTCTGTGCACTGGGAGCTGAATGACAGACAGCTGGAT
GCATCCAAGTTCATCAACAGTCCAGTCGGCAATGCCTCTGCGTTGGGTGATTATTC
CATGCACAGCGTACTGATATTACCAGCATCAAAAAGAGAGAACAGCACTTTTTCT

GTGTGGTCAGCCACGAGTCATCTGAAAAGCCAATCAGGAACTCGATTAACAACGTA
TACGCCTCTGTGACTGAAAATCGTCCCTCTGTGGTGCTGCTGCAGGGTCAAATAA
ACTGGTGTGTCTGGTGTACGGTTATAGCCCTTCAGCTATTAACATCACCTGGCTCC
TAAATAGTGTGAGTGTACAGCATGACAACAGCACCAAGAGCTCTGCCAAAAGGCCT
GATGGGAAATTCAGCATTAAAAGCCATCTGAAGGTCCAGGCCTCTGAATGGGCAC
CTGGTGACACTTACACTTGCCAAGTCAAGCACATCACTGGCATCGTTACTCGCGAC
ATCTCCAAAAAAGAATTTACTGAAGAGACGATATACTTTGATGAGAACACGTCTGAA
ACTAGCACACTGGATCAGGCTGAGGAAACCTGGAACATGGCCTGTGCCTTCATCA
TACTCTTCGTCATCTCTCTCCTCTATGGATGTTCACTGACTCTGGTCAAAGTGAAGA
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TGCTTTATGGCTGTATTTTTTAAACAAATTTTTTTTTTATTATTTTTTAAGTCGATAA
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IgL lambda

Complete CDS EU872022, EU872025

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LITR2

Complete CDS AY885644

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NITR10

Complete CDS AF397463

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AG

TCR alpha

Complete CDS TA28 U58505

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TCR beta

Complete CDS TA18 U39193

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TCR gamma

Complete CDS TS32.17 DQ435303

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TCR delta

Complete CDS (in publication, Miller et al.)

ATGTCTCAACTATACAACCTTACTGTACATAGTGAGATACATACCACTGATTCTCACT
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EQUINE

Start and stop codons are underlined. Probable coding errors are highlighted in red. Nucleotides in lower case indicate deletions with respect to reference sequences.

Header format:

(Gene Name)

(Complete/Partial CDS) (Clone ID if available) (GenBank Accession Number if available)

CCL2

Complete CDS TH295 EU438774

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CCL3

Complete CDS TH337 EU438775

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CCL5

Complete CDS TH360 EU744564

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CCL11

Complete CDS TH419

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CD40

Complete CDS AY514017

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CXCL9

Complete CDS TH351 EU438776

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CXCL10

Complete CDS TH345 EU438777

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GM-CSF

Complete CDS TH308 EU438778

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IFN-alpha 1

Complete CDS TH382 EU682378

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IFN-gamma

Complete CDS BW143 U04050

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IL1-beta

Partial CDS DT111 EU438767

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IL2

Complete CDS DT113 EU438768

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IL4

Complete CDS DT117 EU438769

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IL6

Complete CDS DT122 EU438770

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IL10

Complete CDS DT126 EU438771

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IL13

Partial CDS BW133 EF645663

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IL15**Partial CDS TH379 EU682379**

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IL18**Complete CDS DT001 EU438772**

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IL23**Complete CDS TH304 EU438773**

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TGF-beta

Complete CDS BW106 X99438

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TNF-alpha

Complete CDS TH322 EU438779

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TTATCTGC

POULTRY
(Gallus gallus)

Start and stop codons are underlined. Probable coding errors are highlighted in red. Nucleotides in lower case indicate deletions with respect to reference sequences.

Header format:

(Gene Name)

(Complete/Partial CDS) (Clone ID if available) (GenBank Accession Number if available)

CCL4

Complete CDS NM_001030360

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CCL20

Complete CDS NM_204438

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CD80

Complete CDS NM_001079739

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CD83

Predicted CDS XM_418929

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Complete CDS NM_001037839

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CXCR4

Complete CDS NM_204617

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AH009942

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IL1-beta

Complete CDS Y15006

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IL2

Complete CDS AF017645

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IL-2R alpha

Complete CDS NM_204596

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IL4

Complete CDS NM_001007079

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Complete CDS AY262752

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Complete CDS AJ508678

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Complete CDS AJ493595

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IL-21R

Complete CDS NM_001030640

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Complete CDS AY765397

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RUMINANT
(Bos taurus)

Start and stop codons are underlined. Probable coding errors are highlighted in red. Nucleotides in lower case indicate deletions with respect to reference sequences.

Header format:

(Gene Name)

(Complete/Partial CDS) (Clone ID if available) (GenBank Accession Number if available)

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Complete CDS AY834253

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Complete CDS TH006 EU276061

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CXCL10

Complete CDS TH013 EU276062

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CXCL11

Complete CDS TH011 EU276063

CAGCAGCAACAAGCATGAGTGTGAAGGGCATGGCTATAGTCCTGACTGTGATATTA
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IFN-alpha-A

Complete CDS TH001 EU276064

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IFN-beta

Complete CDS TH113 EU276065

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GGGACAATGTG

IFN-gamma

Complete CDS TH030 EU276066

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IL1-beta

Complete CDS TH024 EU276067

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CCATACCCAGGG

IL2

Complete CDS TH036 EU276068

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IL4

Complete CDS TH106 EU276069

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CTGAA

IL5

Complete CDS TH185 EU276070

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IL6

Complete CDS TH039 EU276071

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IL7

Complete CDS TH110 EU276072

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IL8

Complete CDS TH018 EU276073

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IL10

Complete CDS TH104 EU276074

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IL12p35

Complete CDS TH180 EU276075

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IL12p40

Complete CDS TH043 EU276076

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IL13

Complete CDS TH029 EU276077

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IL15

Partial CDS VLM094 EU682380

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IL17

Complete CDS VLM096 EU682381

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IL18

Complete CDS TH047 EU276078

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IL23

Partial CDS CC13 EU616677

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IL23R

Complete CDS EU616678

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TNF-alpha

Complete CDS TH016 EU276079

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TCR delta V1

Partial CDS CH304

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TCR delta V2

Partial CDS CH306

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TCR delta V3

Partial CDS CH312

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CATATGAAAACAGCACAAAAGCTGAAGCTCCAGTGACCTGCCAAGAGCCCCAAGT
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GTTTGC

TCR delta V4

Partial CDS CH325

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TCR gamma V2-C3

Partial CDS CH03

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TCR gamma V8-C3

Partial CDS CH03

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TCR gamma V3-C5

Partial CDS CH06

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TCR gamma V4-C5

Partial CDS CH05

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TCR gamma V7-C5

Partial CDS CH02

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SWINE

Start and stop codons are underlined. Probable coding errors are highlighted in red. Nucleotides in lower case indicate deletions with respect to reference sequences.

Header format:

(Gene Name)

(Complete/Partial CDS) (Clone ID if available) (GenBank Accession Number if available)

CCL2

Complete CDS DT636 (note: this replaces DT304) EU682382

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CCL3L1

Complete CDS DT401 EU364893

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CCL4

Complete CDS TH409 (replaces DT426 EU364894)

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CCL5

Partial CDS DT515 EU744561

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CXCL9

Complete CDS TH400 (replaces DT305) EU364897

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CXCL10

Complete CDS DT308 EU364898

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Complete CDS TH404 EU682377

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IFN-alpha

Complete CDS DT316 EU364896

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IFN-beta

Partial CDS DT627 EU744562

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IL-4R alpha

Complete CDS AY266143

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IL7

Complete CDS DT300 EU364895

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IL13

Complete CDS DT321 EU682383

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IL-13R alpha

Complete CDS AY266142

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IL15

Complete CDS NM_214390

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TCR alpha

Partial CDS EU364899

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TCR beta

Partial CDS EU364900

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TCR gamma

Partial CDS EU364901

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TNF-alpha

Complete CDS DT211 EU682384

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CACCATCAGCCGCATCGCCGTCTCCTACCAGACCAAGGTCAACCTCCTCTCTGCC
ATCAAGAGCCCTTGCCAGAGGGAGACCCCGAGGGGGCCGAGGCCAAGCCCTG
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TROUT

Start and stop codons are underlined.

Header format:

(Gene Name)

(Complete/partial) (Genbank Accession Number if available). HC-Hotcreek Clonal line

CD3

Complete CDS (Confirmed EST CA357253)

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CD4

Complete CDS (AY973028)

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AATCCAGAGGGGGGACACCCTGAAGAGAAGTATGCGTGTGGAGGTGCTACAGGT
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CD4REL

Complete CDS (AY973029)

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CD8

Complete CDS (AF178054)

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CD28

Complete CDS AY789435

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CD79A

Partial CDS, sequence confirmed EST CA369371

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CD79B**Partial CDS, sequence confirmed EST CA378285**

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GTGTCGGACCGAAACCAGCCTGCCACGGTGGAAATGGTACAAGGCCTCAGAATACA
ACACCACTAGGAAGAAGATAGTTGGGGACCGGGTCACTGTGAGGCAGGAGAGCA
TGTTACAAAACGCCTCGATCGAACTCAGACATGTAGAGACGGAGGACACCGGATT
TACTTTTGTCTGATTAACAACATCACCTGGGGGCCAGGGACAGAGCTACAAGTGC
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AGTGTATGCTC

CD83**Complete CDS (AY263796)**

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GTACAAGTGTCTCCTGGCAGCACCTGTAGGAGAGCAGAACCAGGAGGGGGCAGGT
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CD152 (aka CTLA4)**Complete CDS (AY789436)**

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IFN Type1 (IFN1s)

Complete CDS. HC (98% identity to AM489418) (to be deposited)

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CACTTTACAGACACATAGATGATGCTGAGTTTGAGGACAAAGTCATATTCCTGAAA
GAGACCATCTATCAAATCACAAAACCTGTTTGATGGGAATATGAAATCTGTCACCTG
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IFN Type1 (IFN2)

Complete CDS. HC (99% identity to AJ582754) (to be deposited)

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GTGC

IFN Type 1 (IFN3)

HC (97% Identity to AM235738) (to be deposited)

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IFN Type 2 (IFNG)

Complete CDS AJ616215

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CACTGAGGAAAAAAAAAAAAAAAA

IgD

Complete CDS AY870261

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Complete CDS AY870265

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MHC class IIB

Complete CDS (AF115533)

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PAX-5

Complete CDS EU147491

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TCRB

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TCRG

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