

Additional File 3 5' nucleotide sequences of *Ovis aries* T cell transcription factor variants

A. GATA3 (LN848231 and LN848232)

GATA3	GAGGCCCAAGGCGAGATCCAGCACAGAAGGCCGGGAGTGTGTGAACTGCGGGGCGACATC	840
GATA3v1	GAGGCCCAAGGCGAGATCCAGCACACA---GGCCGGGAGTGTGTGAACTGCGGGGCGACATC	837

B. RORC2 (LN848233 and LN848234)

RORC2	CCTACAACGCTGACAACAACACAGTCTTTTTTGAAGGCAAATACGGTGGCGTGGAGCTGT	1260
RORC2v1	CCTACAACGCTGACAACAACACAGTCTTTTTTGAAG-----	1236

RORC2	TCCGAGCCTTGGGCTGCAGTGAAGTCCATCTTTGACTTCTCCCGCTCCCTGA	1320
ROR2Cv1	-----GCTGCAGTGAAGTCCATCTTTGACTTCTCCCGCTCCCTGA	1284

C. RORA (LN848235, LN848236, LN848237, LN848238, LN848239)

RORAv1	-----	0
RORAv2	CGATTCCTCGGGGTTTCACAACCTAAGAGGTCTGGGAGGGCACCTTGCAGTGCCTAAGTC	60
RORAv3	-----	0
RORAv4	-----	0
RORAv5	CGATTCCTCGGGGTTTCACAACCTAAGAGGTCTGGGAGGGCACCTTGCAGTGCCTAAGTC	60
RORAv1	-----	0
RORAv2	TCCACGAGTGTTCAGAGCGGACATAAAATGTACAGAGTCTTTAGACAAGCGG---GCTTT	117
RORAv3	-----TGCGCAGA-----	8
RORAv4	-----ACACTGACATGGACTGAA-GGAG---TAGAAAAGAAGGCAGCTTT	41
RORAv5	TCCACGAGTGTTCAGAGCGGACATAAAATGTACGGAGTCTTTAGACAAGCGG---GCTTT	117
RORAv1	-----	0
RORAv2	CTGTGGATGGGATCCGCCTCTGGGAGGCCAGGG-AAAAGACAAAACAAGTGTTCCTGC	176
RORAv3	CAGAGCT---ATTCCAGCACCAG-----CAGAGGG-----TTATCC ATGC	45
RORAv4	CTTCTGGTGTGCTCAGCCTCTTGCAT--CTGGGTCC-----AGGTCCCTTC	85
RORAv5	CTGTGGATGGGATCCGCCTCTGGGAGGCCAGGGGAAAAGACAAAACAAGTGTTCCTGC	177
RORAv1	-----	0
RORAv2	AGTTCTCTGCTGCAGTTGCTAACAGAGAGT---CACTCGACGCTTGGTATCTCAGTAACA	233
RORAv3	CAGTGTCCAGTGAGG---GAACTGAGAGAAGGCGGCATGATCCAGGTATCTCAGTAACA	101
RORAv4	AAGGTTAATCA---G---AATCAGAA---GTTCAGAGAGCTGCAGGTATCTCAGTAACA	135
RORAv5	AGTTCTCTGCTGCAGTTGCTAACAGAGAGT---CACTCGACGCTTGGTATCTCAGTAACA	234
RORAv1	-----TCACCGCG-----	8
RORAv2	AAGAAGACCCATACATGGCAGGCATGGTACAGAGAGCTTCCCTGCACAGCCTTGCCCATG	293
RORAv3	AAGAAGACCCATACAT -----	117
RORAv4	AAGAAGACCCATACAT-----	151
RORAv5	AAGAAGACCCATACAT-----	250
RORAv1	-GCTTAAATG ATGTATTTTGTGATCGCAGCGATGAAAGCTCAAATTGAAATTATTCATG	67
RORAv2	AGCTCGTCCCTGGCCTGGTGGGACCCACTCTAGAGGTGCTCAAATTGAAATTATTCATG	353
RORAv3	----- CTCAAATTGAAATTATTCATG	139
RORAv4	-----CTCAAATTGAAATTATTCATG	173
RORAv5	----- CTCAAATTGAAATTATTCATG	272

RORAv1	CAAGATCTGTGGAGACAAATCATCAGGAATCCATTACGGTGTATTACATGTGAAGGCTG	127
RORAv2	CAAGATCTGTGGAGACAAATCATCAGGAATCCATTACGGTGTATTACATGTGAAGGCTG	413
RORAv3	CAAGATCTGTGGAGACAAATCATCAGGAATCCATTACGGTGTATTACATGTGAAGGCTG	199
RORAv4	CAAGATCTGTGGAGACAAATCATCAGGAATCCATTACGGTGTATTACATGTGAAGGCTG	233
RORAv5	CAAGATCTGTGGAGACAAATCATCAGGAATCCATTACGGTGTATTACATGTGAAGGCTG	332

RORAv1	CAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCCTGTCCCTCGTCAAAA	187
RORAv2	CAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCCTGTCCCTCGTCAAAA	473
RORAv3	CAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCCTGTCCCTCGTCAAAA	259
RORAv4	CAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCCTGTCCCTCGTCAAAA	293
RORAv5	CAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTACTCCTGTCCCTCGTCAAAA	392

RORAv1	GAACTGTTTGATTGATCGGACCAGTAGAAACCGCTGCCAGCACTGTTCGATTACAGAAATG	247
RORAv2	GAACTGTTTGATTGATCGGACCAGTAGAAACCGCTGCCAGCACTGTTCGATTACAGAAATG	533
RORAv3	GAACTGTTTGATTGATCGGACCAGTAGAAACCGCTGCCAGCACTGTTCGATTACAGAAATG	319
RORAv4	GAACTGTTTGATTGATCGGACCAGTAGAAACCGCTGCCAGCACTGTTCGATTACAGAAATG	353
RORAv5	GAACTGTTTGATTGATCGGACCAGTAGAAACCGCTGCCAGCACTGTTCGATTACAGAAATG	452

RORAv1	CCTTGCCGTGGGGATGTCTCGAGATGCTGTGAAATTTGGCCGCATGTCGAAAAAGCAGAG	307
RORAv2	CCTTGCCGTGGGGATGTCTCGAGATGCTGTGAAATTTGGCCGCATGTCGAAAAAGCAGAG	593
RORAv3	CCTTGCCGTGGGGATGTCTCGAGATGCTGTGAAATTTGGCCGCATGTCGAAAAAGCAGAG	379
RORAv4	CCTTGCCGTGGGGATGTCTCGAGATGCTGTGAAATTTGGCCGCATGTCGAAAAAGCAGAG	413
RORAv5	CCTTGCCGTGGGGATGTCTCGAGATGCTGTGAAATTTGGCCGCATGTCGAAAAAGCAGAG	512

Bold; coding region