

#####

```

# Program: needle
# Runday: Mon 15 Dec 2014 16:30:11
# Commandline: needle
#   -auto
#   -stdout
#   -asequence emboss_needle-I20141215-162649-0501-16776341-es.asequence
#   -bsequence emboss_needle-I20141215-162649-0501-16776341-es.bsequence
#   -datafile EDNAFULL
#   -gapopen 10.0
#   -gapextend 0.5
#   -endopen 10.0
#   -endextend 0.5
#   -aformat3 pair
#   -snucleotide1
#   -snucleotide2
# Align_format: pair
# Report_file: stdout
#####

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#=====

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#
# Aligned_sequences: 2
# 1: ENSOARG0000009764
# 2: KP025765
# Matrix: EDNAFULL
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 32985
# Identity: 27411/32985 (83.1%)
# Similarity: 27411/32985 (83.1%)
# Gaps: 5486/32985 (16.6%)
# Score: 135284.0
#
#
#=====

```

ENSOARG000000	1	-----	0
KP025765	1	ggctcgcccgcgcgccgcatctggagccgcccagcggagcccagcgcggg	50
ENSOARG000000	1	-----	0
KP025765	51	gagggtgagtgccgccccaggtaggtccagccattccccgcactccg	100
ENSOARG000000	1	-----	0
KP025765	101	ccgcccctccagggccccgagccgcccaggctgggcgctctaggagg	150
ENSOARG000000	1	-----	0
KP025765	151	tttccgaggggagaagcggaaagggagtgcgcaccccagccccgggcagc	200
ENSOARG000000	1	-----	0
KP025765	201	ccgacggggagctgattggtgggcccggcggcttttgtttccccagctctt	250
ENSOARG000000	1	-----	0
KP025765	251	cctttcctaaaggccggcccagggcaggtgccctgcctgcccgggtg	300
ENSOARG000000	1	-----	0

KP025765	301	tgtccaggggacccccggcggaaaggggaacaggcagagctggagaaggcg	350
ENSOARG000000	1	-----	0
KP025765	351	cttggttgtcagacctctgggtggaggaggcagcaggagaggtctggg	400
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KP025765	401	cgtcgggtgggcgcttgggagaagtagtgggcaggggccccggtgggtggc	450
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KP025765	451	ctactgggctgggcacttctggggttcaaaaagaagcagccacctagagg	500
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KP025765	501	cagagaccctccgatttggctgggtggtgccaccgtgcagctggggtctg	550
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KP025765	551	gggactccttgattctcctctcctcctggctgggcacacgtctgccttgc	600
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KP025765	601	tcccaaagtcagctcaggacacccttctccaggaagccctcctgacctc	650
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KP025765	651	atggcccaccactgtgacctcctccagggccagccccctgtccccacct	700
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KP025765	901	cagcggggaaggggtgtccgtctgtctccttggccttgaatctcgggtg	950
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KP025765	951	atagagcagcagaggggcccagaggataggggaagcaggagggaagagagct	1000
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KP025765	1101	tatgtatgtccctgagcctgccagactgggtgtgccgctatgtgataaca	1150

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KP025765	1151	gtgggtggcaagcactcacttccgggacccggctgctacataaaaaggcc	1200
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KP025765	2051	gggggcacaggagagtgagtaagagccgggttgggcagtcctgtacctg	2100
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KP025765	2201	ccccagaagcaccctcctcggctggcttggggcacccttaccagcgc	2250
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KP025765	2301	agctcctggtcgccacctcggagagacggaagcatgccctcctgcagccc	2350
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KP025765	2351	ctcgggtctccccagagcctgggggtgtgcctgccccacaagccaaggcct	2400
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KP025765	2401	gagcgaggactcaaggctgaggccagtaggcatggcctagtgcgggct	2450
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KP025765	2451	gctgggtgactggctctggagaaggaggccgggcggtcactcttgcctc	2500
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KP025765	2501	agctctgccaggccaggcgcctctggccagctcttctcttcagcaggctg	2550
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KP025765	2551	tccatcttgaacgttctcaggaatgtcactgcctgccccgaaggcac	2600
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KP025765	2651	cagtgataaaagaatctgcctgccagtgccaggagacacgggttcaatccc	2700
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KP025765	2701	tgatccaggaagatcccacacgccgaggaggagctaagcccgtgtgccac	2750
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KP025765	2851	aaaagcaatgaataaataaatcgttttaaaaaaacagtgactcaaaggc	2900
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KP025765	3001	tcagaatcccccaactcaactcgggcaggcacaggtgcggggacccccctc	3050
ENSOARG000000	25	CTCTGATGGGCCAGGCAGCCATTACAGAACTTAGCTGAGTAGCAAATCAT	74
KP025765	3051	ctctgatgggcccaggcagccattacagaacttagctgagttagcaaatcat	3100
ENSOARG000000	75	GTCCTCCCTTACCTAGGCCCCAGTACTGCAGAGGGTCCCCCTCCTTCTA	124
KP025765	3101	gtcctcccttacctaggccccagtagtgcggagggtccccctccttcta	3150
ENSOARG000000	125	GTCTGTATCCCATCACCGAGGGCAAGTAAGCGGGCCAGGGCCCTTAGG	174
KP025765	3151	gtctgtatcccatcaccggagggcaagtaagcgggcccaggccctctagg	3200
ENSOARG000000	175	GTGGCCCTGTCCCTTCCAAGCCTGACCCAACCCAGTGGGGTCTGAAAGGC	224
KP025765	3201	gtggccctgtcccttccaagcctgacccaaccagtggggtctgaaaggc	3250
ENSOARG000000	225	GAGGGTGGAAAAAATCCCTGGTCTTCCCTCCAGGGAGCCCAGTACAAGA	274
KP025765	3251	gagggtggaaaaaatccctggctctccctccaggagcccagtagacaaga	3300
ENSOARG000000	275	GATCTAGCGGTGGGACAAGCTCAGAGCCCACAGTCCTCAGTGGTGAGAGG	324
KP025765	3301	gatctagcggtaggacaagctcagagcccacagtcctcagtggtgagagg	3350
ENSOARG000000	325	GTGGGGCCTCCCTGGCAGGGCGTAGGCCTACAGGGCATCTGGACACTCT	374
KP025765	3351	gtggggcctccctggcagggcgtaggcctacagggcatctggacactct	3400
ENSOARG000000	375	GGGGATGCCAAGGAAGGGGCAGAGGAAAAGAGGGATCAGGGTCTCTGGG	424
KP025765	3401	ggggatgccaaggaaggggagagggaaaagagggatcaggggtcctggg	3450
ENSOARG000000	425	CCCTGCCACTTGTAGGCCAGGTGGCCTCGGAACATCACTAAAATTCTCAG	474
KP025765	3451	ccctgccacttgtaggccaggtggcctcggaacatcactaaaattctcag	3500
ENSOARG000000	475	AGCCTCAGTTTGTACAGCTGTGCAATGGGAACGGTGGAGCTCTGATGAGG	524
KP025765	3501	agcctcagtttgtacagctgtgcaatgggaacggtggagctctgatgagg	3550
ENSOARG000000	525	ACCCAGTGAGCTGACACGTGGACCAGGGTTGTCAGGCATCATGTGTCAAT	574

KP025765	3551	accagtgagctgacacgtggaccagggttgtcaggcatcatgtgtcaat	3600
ENSOARG000000	575	TGTGGGTGTTTTACAGGAAGAGGAGGATGGCAGGGCCACATCCCAGCCCG	624
KP025765	3601	tgtgggtgttttacaggaagaggaggatggcagggccacatcccagcccg	3650
ENSOARG000000	625	TGGACCAGGCTGCTGCTGGCAGCCCTGCTGAGCGTCAGCTTCCCCGGGA	674
KP025765	3651	tggaccaggctgctgctggcagccctgctgagcgtcagcttccccgggga	3700
ENSOARG000000	675	CATGGGTGAGTCGGACACGCCCTGCAGCACCTCCTTGGTGGGGCCTCA	724
KP025765	3701	catgggtgagttggacacgcccctgcagcaccctccttgggtggggcctca	3750
ENSOARG000000	725	GCTTTCAAGGCCCTGCCCTTAAGGTATCAGGGGTGTGGGGGAGGCTGTC	774
KP025765	3751	gctttcaaggccctgcccttaaggtatcaggggtgtgggggaggctgtc	3800
ENSOARG000000	775	ACTCAGTGTCTGGCCAGACCCTCACTCAGCCATTCAGCAAACAGCCACC	824
KP025765	3801	actcagtgtctggcccagaccctcactcagccattcagcaaacagccacc	3850
ENSOARG000000	825	ACCCACTTCAAGGGTTGTGGAGCCATGATCCTGAGCTGCATGGCCAAAC	874
KP025765	3851	accacttcaagggttgtggagccatgatcctgagctgcatggccaaac	3900
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KP025765	3901	acttagggaagcgcgaaggagacttggctctgaaggagggaaaagacatcca	3950
ENSOARG000000	925	CTCAGAGAAGGCAGGCGCTTGAGGGTGTGCTAAGGCCTGGACAGCGGAG	974
KP025765	3951	ctcagagaaggcaggcgttgagggtgtgctaaggcctggacagcggag	4000
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KP025765	4001	ttgaaagattttatgggaatttgaaggagaggaggatgatcgacacaggc	4050
ENSOARG000000	1025	TCTCTGAGTGTCTGCAGTCCGCAAAGGGCTCCTACTGATGGAATAGTGCC	1074
KP025765	4051	tctctgagtgtctgcagtccgcaaagggtcctactgatggaatagtacc	4100
ENSOARG000000	1075	TGTCAGTGGACGCCATGGCTGGCAGCTCAAAGCAGTCCGTGGTGGGAACA	1124
KP025765	4101	tgtcagtggacgccatggctggcagctcaaagcagtccgtggtgggaaca	4150
ENSOARG000000	1125	TTTATACTTTGAAATCGTAAATGCTGCAAGTCAGGGCTTCCCTGCCCT	1174
KP025765	4151	tttatactttgaaatcgtaaatgctgcaagtcagggcttccctgccct	4200
ENSOARG000000	1175	CACCGGAGACTGCTAAACATTGACAGCACTCCTTTTCTGAAAGTCCA	1224
KP025765	4201	caccggagacactgctaaacattgacagcactccttttctgaaagtcca	4250
ENSOARG000000	1225	GGAGCCCTGCCACTAGCAAGGGCGGGTCTCACTGTGATTTTAACTGAA	1274
KP025765	4251	ggagccctgccactagcaagggcgggtcctcactgtgattttaactgaa	4300
ENSOARG000000	1275	CAAAACCAGACGGTATCCTAACCTTTGGGGAAACTGAAGTTTACCTCAT	1324
KP025765	4301	caaaaccagacggtatcctaacctttggggaaactgaagtttcacctcat	4350
ENSOARG000000	1325	TTATTTATTA AAAA CT TACCATGTGCAGGGCATAGGCTCAGCACTAGAGA	1374
KP025765	4351	ttattttatataaaaacttaccatgtgcagggcataggctcagcactagaga	4400

ENSOARG000000	1375	CGCTGATAAAAGAAACACAGTCCCGGAGGAGCAGGCAAGGGGGCTGGTTA 	1424
KP025765	4401	cgctgataaaaagaaacacagtcccgaggagcaggcaagggggctggtta	4450
ENSOARG000000	1425	GGGTGTCCCCGCCAGCAAATGGGCCAGCGCCTCCATCTCAGCCCCTACCC 	1474
KP025765	4451	gggtgtccccgccagcaaatgggccagcgcctccatctcagcccctaccc	4500
ENSOARG000000	1475	TCCTTCCCTCCAGACTTGGGTGGAAAATCCCAGTTTGAGACCTGGCTCTT 	1524
KP025765	4501	tccttccctccagacttgggtggaaaatcccagtttgagacctggctctt	4550
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KP025765	4551	caggttgctaaccacatagccactggcctctgtttccccctctgtatctt	4600
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KP025765	4601	ggaagagagtccctacctctttcaaatgaggatgcttaaggggagggtt	4650
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KP025765	4651	ggtcctgggggagacctatctcagtgggccacccccgctctgttccgag	4700
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KP025765	4701	cgaaccgctgcaagaaggcccaggtgaagagctgcaccgagtgcacccgc	4750
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KP025765	4751	gtggacaaggactgcgctactgcacggacgaggtgtgttgctgccagc	4800
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KP025765	4851	acatttgccccaccctcggcccagccttgggccagccgggcgtgggacaa	4900
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KP025765	4951	cagcggggacaggcacggccccctgaccccgctctccttctggccaggtg	5000
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KP025765	5051	ccggctgcagagtgtggtggtcatggagagcagctacgagatcatggagg	5100
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KP025765	5101	tgcccgggggttgggggtagggggaggcaagctcaaggccagctgcttatg	5150
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KP025765	5151	gggtgttatgggggtcccctggctgagcggctctctcattagatctggaga	5200

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ENSOARG000000	2225	ACACCACGCTGCGCCGAGCCAAGTGTCCCCTCAGGCACTGCGGGTGC GG 	2274
KP025765	5251	acaccacgctgcgccgagccaagtgtcccctcaggcactgcgggtgcgg	5300
ENSOARG000000	2275	CTGCGGCCGGGCGAGGAGCGGCACTTCGAGCTGCAGGTGTTT GAGCCCCT 	2324
KP025765	5301	ctgcgccgggagaggagcggcacttcgagctgcaggtgtttgagcccct	5350
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KP025765	5451	aggaagactgcgggcatggagaggggtgctccccacccccagctgctca	5500
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KP025765	5551	cttctgagcaccccaagaactcctccccattctcagaggagagtctctggc	5600
ENSOARG000000	2575	CAGACCCCCAGTAACCACTCAGCAGTACAGAGGAGGGCCCCACTGGGTGG 	2624
KP025765	5601	cagacccccagtaaccactcagcagtacagaggaggccccactgggtgg	5650
ENSOARG000000	2625	GCCCCAGACCCCCTCTGGTCCGTTTTTGGGTTTTTTGGCTGGACCGTGTCA 	2674
KP025765	5651	gccccagacccccctctggtccgttttgggttttttggctggaccgtgtca	5700
ENSOARG000000	2675	CGTGGCTTGTGGGATCTTAATACCCTGACCAGGGGTCAAACCCGTGCCTC 	2724
KP025765	5701	cgtggcttgtgggatcttaataccctgaccagggtcaaaccctgcctc	5750
ENSOARG000000	2725	TGTAGTGGCAACCCAGAGTTCTAGCCATTGGACTGCCAGGAAATGCCCTC 	2774
KP025765	5751	tgtagtggcaaccagagttctagccattggactgccaggaaatgccctc	5800
ENSOARG000000	2775	CTCTGGTCCTGACAAGGAGGGTCCCGGCTGCTACGAGGCTGAGGTTAAGT 	2824
KP025765	5801	ctctggtcctgacaaggagggtcccggctgctacgaggctgaggttaagt	5850
ENSOARG000000	2825	CTGAGCTCAACAGATGTCTGGTCCAGCTCCCCACCCGCCCTCCA ACTT 	2874
KP025765	5851	ctgagctcaacagatgtctggtccagctccccacccgccccctccaactt	5900
ENSOARG000000	2875	GCTGCATGTGTGACTCCGGTCCCCTGAGTCCCATTCCCTTCATCTGTAA 	2924
KP025765	5901	gctgcatgtgtgactccgggtcccctgagtcccattcccttcactctgtaa	5950
ENSOARG000000	2925	ATAATGACAGGGCTGCTGTGTGCACCAACTGATGCCAAACATGCAAAGCG 	2974
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ENSOARG000000	2975	TTGACGTTAAGTTATTAAGTTATTCTTCTTCTTCTTCTTCCCAAAC CAG 	3024

KP025765	6001	 ttgacgttaagttattaagttattcttcctcttcctccttcccaaacag	6050
ENSOARG000000	3025	CCCCAACACTTATGTGGATGTGGGGTTCTTGGGGCTCAGCTGCCCTTTC 	3074
KP025765	6051	cccccaacacttatgtggatgtggggttcttggggctcagctgccctttc	6100
ENSOARG000000	3075	TTTTTGTTTTTAAAAAGTTTATTTATTTTAAATTGAAGGATATTGCTTCA 	3124
KP025765	6101	tttttgtttttaaaaagtttatttttttaattgaaggatattgcttta	6150
ENSOARG000000	3125	CAACATTGCATTGGTTTCCGCCATACACCAACATGAATCAGCCGTAGGTG 	3174
KP025765	6151	caacattgcattggtttccgccatacaccaacatgaatcagccgtagggtg	6200
ENSOARG000000	3175	TACATATGACCCCTCCCTCTTGAAGCCCTCCACCTCCCACCCATCCC 	3224
KP025765	6201	tacatatgacccctccctcttgaagccctccacctcccaccatccc	6250
ENSOARG000000	3225	ACCCTTCGAGGCTGTCCCAGAGCTGCCGGAGTTGAGGCCCTGAGCCACA 	3274
KP025765	6251	acccttcgaggctgtcccagagctgccggagttgaggccctgagccaca	6300
ENSOARG000000	3275	CAGCGAATCCCCGGCTACTATTTTACACATGGCAGCGTGTCTGCTTCTG 	3324
KP025765	6301	cagcgaatccccggctactattttacacatggcagcgtgtctgcttctg	6350
ENSOARG000000	3325	TGCTACTCTCCGTCAATCCCACCCACAGCTGCCCCGTCTTTCCTACTGA 	3374
KP025765	6351	tgctactctccgtcaatcccaccacagctgccccgtctttcctactga	6400
ENSOARG000000	3375	TGCCCAGCTCAGGTCTAAGGCAGCTCACCAGCGACTACACTATAGGATT 	3424
KP025765	6401	tgcccagctcaggtcctaaggcagctcaccagcgactacactataggatt	6450
ENSOARG000000	3425	TGGCAAGTTCGTGGACAAAAGTCAGCGTCCCTCAGACGGACATGAGGCCTG 	3474
KP025765	6451	tggcaagttcgtggacaaaagtcagcgtccctcagacggacatgaggcctg	6500
ENSOARG000000	3475	AGAAGTGAGTGATCTACCAAGTAGACGGGGTCTTGGCCAGGTGGCCAC 	3524
KP025765	6501	agaagtgagtgatctaccaagtagacgggggtcctggccaggtggccac	6550
ENSOARG000000	3525	CTCCTCTCCACCCAGGCACTTTGAAAATCTTGGGGTTACTGAGCCAAG 	3574
KP025765	6551	ctcctctccaccaggcactttgaaaatcttggggttactgagccaag	6600
ENSOARG000000	3575	GGGTGGTCCGCAAGGAGGGTGGGCGCGGGCATGGGGTCTTCTTCCCTG 	3624
KP025765	6601	gggtggtccgcaaggagggtgggcgcgggcatgggggtcttcttccctg	6650
ENSOARG000000	3625	ACTTTCTCTCTCCGTGATGCTCCCTTCCCACCTTCCCAGGCTGAAGGAA 	3674
KP025765	6651	actttctctctccgtgatgctcccttcccaccttcccaggctgaaggaa	6700
ENSOARG000000	3675	CCCTGGCCCAACAGTGATCCCCCTTCTCCTTCAAGAATGTCATCAGTCT 	3724
KP025765	6701	ccctggcccaacagtgatcccccttctccttcaagaatgtcatcagcct	6750
ENSOARG000000	3725	GACAGAAGACGTGGAGGAGTTCCGGAACAAGCTGAAGGGGAGCGCATCT .	3774
KP025765	6751	gacggaagacgtggaggagtccggaacaagctgaaggggagcgcacatct	6800
ENSOARG000000	3775	CAGGCAATCTGGATGCCCCGAAGGAGTTTTGATGCCATCCTGCAGACA .	3824

KP025765	6801	caggcaacctggatgccccgaaggaggttttgatgccatcctgcagaca	6850
ENSOARG000000	3825	GCCGTGTGCACCGTGAGTGCGGGGAGGCTCCTTCCGTTCTAGACCAGGGC	3874
KP025765	6851	gccgtgtgcaccgtgagtgcggggaggctccttccgttctagaccagggc	6900
ENSOARG000000	3875	TGTGTCAAGAGCTGCCCCCTGGCCTGCTCTGGTGCCAAGCTGGGGCCCC	3924
KP025765	6901	tgtgtcaagagctgccccctggcctgctctggtgccaagctggggcccc	6950
ENSOARG000000	3925	ATGCTCTCAGACAAGCTCAGACCCTCTGGGGGACCCTCAATTCCAATCCA	3974
KP025765	6951	atgctctcagacaagctcagaccctctgggggaccctcaattccaatcca	7000
ENSOARG000000	3975	AGTTTAGAGGTGTTGGGGCCTGAGCAGTCTTACCCTGCTTTTGTATTGGT	4024
KP025765	7001	agtttagaggtgttggggcctgagcagtcttaccctgcttttgtattggt	7050
ENSOARG000000	4025	CACCAAGGTGGACCTGAGCCTCGGCGTTCTGGAATCTTCAGTGCCCCGAG	4074
KP025765	7051	caccaaggtggacctgagcctcggcgttctggaatcttcagtgccccgag	7100
ENSOARG000000	4075	CCCCAAGCTCCCTGCTAATACCCATCTCCAGCTGTGCTAGAAGAGGGCAC	4124
KP025765	7101	ccccaaagctccctgctaatacccatctccagctgtgctagaagaggcac	7150
ENSOARG000000	4125	TTTTTACGTGCACATCAATTTTTTTCATTTAAAAAATAATGCACTGATGTT	4174
KP025765	7151	tttttacgtgcacatcaattttttcatttaaaaaataatgcaactgatggt	7200
ENSOARG000000	4175	ATAGACAATTTGGAAAACAAAGAACAGAAATTGCCATAATTCCACCACC	4224
KP025765	7201	atagacaatttgaaaaaacaagaacagaaattgcccataattctaccacc	7250
ENSOARG000000	4225	ATCACAGAGACAGCTGCCTGATACCCCGGCAGCGTGTACTGTTCCCTTGT	4274
KP025765	7251	atcacagagacagctgcctgataccccggcagcgtgtactgttcccttgt	7300
ENSOARG000000	4275	GTAGTCGAAATCAGTGACGTTATATTCTGCCCTTCTTTCCCCAACCT	4324
KP025765	7301	gtagtcgaaatcagtgacgttatattctgcccttctttcccccaacct	7350
ENSOARG000000	4325	ATTGCTTTTATAAACATGGTTTGCAAACCACCCTATATATTCTCAAAC	4374
KP025765	7351	attgcttttataaacatggtttgcaaaccaccctatatatttctcaaac	7400
ENSOARG000000	4375	AAATGGCCATGCGCTGCTGTCCCTGTTTTAAGTCTCTTGTGAACGTTGG	4424
KP025765	7401	aatggccatgcgctgctgtccctgttttaagtctcttgttgaacgttgg	7450
ENSOARG000000	4425	CGTGGTGTCCGTTTTTCTATGCAGTTGAGAGATGCTTGCAGAGTGATTGA	4474
KP025765	7451	cgtggtgtccgtttttctatgcagttgagagatgcttgcagagtgattga	7500
ENSOARG000000	4475	GACCTTGAGGGGACAGCTGGCTGAAACTGGCTCCCATCTTGCCTGGTGCC	4524
KP025765	7501	gaccttgaggggacagctggctgaaactggctcccatcttgcgtggtgcc	7550
ENSOARG000000	4525	CGCTGTGGGCACCATCCCTGCGTCCATTTCTGCTCCCCATGGCTGGTTT	4574
KP025765	7551	cgctgtgggcaccatccctgctccatttctgctccccatggctggttt	7600
ENSOARG000000	4575	CTGTGCCCCCTCCCCACCCGGTTCATCCTCCCGGCGCTGTTTGTGATGAG	4624
KP025765	7601	ctgtgccccctccccacccgggtcatcctcccggcgtgtttgtcatgag	7650

ENSOARG000000	4625	CGTTGCTCACAGAGGCTGTGAATCCCGAGTCCTTGCTGAGCACCGCGTTG	4674
KP025765	7651	cgttgctcacagaggctgtgaatcccgagtccttgctgagcaccgcgttg	7700
ENSOARG000000	4675	GGACCCGCCTTCGCTGTGATGGTGCGTGGCGCTGTGACGTTGCCGTCAGC	4724
KP025765	7701	ggacccgccttcgctgtgatggctgctggcgctgtgacgttgccgtcagc	7750
ENSOARG000000	4725	AGGCTGCCTGCTCCACGGGCACCCACTCCTTGCTCTCCCCAGAGGGACAT	4774
KP025765	7751	aggctgcctgctccacgggcacccccctccttgctctccccagagggacat	7800
ENSOARG000000	4775	CGGCTGGCGCCCTGACAG-----	4792
KP025765	7801	cggctggcgccctgacagcaccacttgctggtgttctccaccgagtcgg	7850
ENSOARG000000	4793	-----	4792
KP025765	7851	ccttccactacgaggccgacggggccaacgtgctggccggcatcatgagg	7900
ENSOARG000000	4793	-----	4792
KP025765	7901	cgtaacgacgaggagtgcacactggacccacgggcacctacactcagta	7950
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KP025765	7951	caagatgcaggactaccctcggtgcccaccctggtgctgcctgctcggcc	8000
ENSOARG000000	4841	AGCACAACATCATCCCCATCTTCGCCGTCACCAACTACTCCTATAGCTAC	4890
KP025765	8001	agcacaacatcatccccatcttcgccgtcaccaactactcctatagctac	8050
ENSOARG000000	4891	TACGAGGTGCGGGGCTGGGCCTCCCTGGGCTCGGGGGAGGGACCCACGGA	4940
KP025765	8051	tacgaggtgctggggctgggcctccctgggctcgggggagggaccacgga	8100
ENSOARG000000	4941	ACTTCTCAGACACACCCCCACCCCTCCTTTCTTCTTCCGAAACTTCA	4990
KP025765	8101	acttctcagacacacccccaccctcctttccttcttccgaaacttca	8150
ENSOARG000000	4991	GATGGGCCCTGGTGGGAAGAGCGGTCATGTGCCATCCTCTGACCCAC	5040
KP025765	8151	gatgggccctggtgggaagaggcggatcatgtgccatcctctgacccac	8200
ENSOARG000000	5041	TCCCCAGCAGGCAGGAGCTGAGAGCGTCCCCACCCGCCCCCAAACCCC	5090
KP025765	8201	tccccagcaggcaggagctgagagcgtccccaccg-----caaa---	8241
ENSOARG000000	5091	CCCCACCAAAGGGCAGGTGAGCCCCAGAGCTCCCGTCTGGATCCGGAGC	5140
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KP025765	8242	-----gcgggtgagccccagagctcccgtctggatccggagc	8278
ENSOARG000000	5141	GATGGCCCCCGTCAGAGGCTGAGCCCCGGGCCCGGCTTTCTCTCCCGCAG	5190
KP025765	8279	gatggcccccgctcagaggctgagccccgggcccggctttctctcccgag	8328
ENSOARG000000	5191	AGGCTGTGCTCTATTTCCCGTCTCCTCACTGGGGGTGCTGCAGGAGGA	5240
KP025765	8329	aggctgtcgtcctatTTCCCGTCTCCTCACTGGGGGTGCTGCAGGAGGA	8378
ENSOARG000000	5241	CTCGTCCAACATTGTGATCTGCTGCAGGAAGCCTTCAACGTGAGGGCCA	5290
KP025765	8379	ctcgtccaacattgtcgatctgctgcaggaagccttcaacgtgaggcca	8428

ENSOARG000000	5291	GTGCGGGCTGCGGGC-----	5305
KP025765	8429	gtgcgggctgcgggccccgagggtggcggggtggcgggagagatggccg	8478
ENSOARG000000	5306	-----CAGAGGATGGGGAACTGGATGGGAGGGCGGAAGGGCCTCCTGCG	5350
KP025765	8479	gaagacagaggatggggaaactggatgggagggcggaaggcctcctgcg	8528
ENSOARG000000	5351	GTCCCTGAGGAGCCCCGGGCTGGCCCCAGGCTCCTGCAGGCTCTGCTC	5400
KP025765	8529	gtccctgaggagccccgggctggccccaggctcctgcaggctctgctc	8578
ENSOARG000000	5401	CCATGAGCCCCGGCACCCAGGCCTCCGTGCAGGTAAGGCTGCAGCTCAG	5450
KP025765	8579	ccatgagccccggcaccaggcctcctgagtaaggctgcagctcag	8628
ENSOARG000000	5451	GCAGCCAGGCCGACGCGGGCTGGCCCCACCTCCCAGGTCATCGA	5500
KP025765	8629	gcagccaggccgcagcgggaggtctgggccccacctccaggtcatcga	8678
ENSOARG000000	5501	TAACTGCCCCCTTTCAGCGCATCCGCTCCAACCTGGACATTCGGGCCCT	5550
KP025765	8679	taacctgccccctttcagcgcacccgctccaacctggacattcgggcct	8728
ENSOARG000000	5551	GGACAGTCCTCGAGGCCTGCGGACAGAGGTCACCTCTAGGATGTTCCAGA	5600
KP025765	8729	ggacagtcctcgaggcctgaggacagaggtcacctctaggatgttcaga	8778
ENSOARG000000	5601	AGACGGACACGGGGTCTTTTTCATCCGGCGAGGGGAAGTGGTATGCCTC	5650
KP025765	8779	agacggacacggggtccttttcatccggcgagggaagtggatgcctc	8828
ENSOARG000000	5651	CATGGGGGCCCGAGAGACGGGAGGATGGGGACAGCACCTGTGGGTGG	5700
KP025765	8829	catgggggccccgagagaggggaggatggggacagcaccctgtgggtgg	8878
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KP025765	8879	ggtctacccaaacagagatccagagcgtggcctcccgagtcagacagatc	8928
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KP025765	8929	tgggtttgaagccccctggagcagcctcttgctgagctctgcctgcc	8978
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KP025765	8979	ttggttggctcagctgtaaagcggagatcagtcagcatggagcccagg	9028
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KP025765	9029	ttgctcagctgaacgagcgggcccgaaggcagctctgcttactgtcgggct	9078
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KP025765	9079	cttgttatcctgactctgcctggaggaagcagttggcagccctgaggaa	9128
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KP025765	9129	ggacgggcaaggagctgggtggcagggccagacacatttctgaagcttt	9178
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KP025765	9179	agggctgagagctttcaggtagaactgccatcccagctggtccagctggg	9228
ENSOARG000000	6051	CCTGCCTCGGCTAAAAGCGGGTCTTGCAGGGCACATAACCAAGTGCAGC	6100

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ENSOARG000000	6101 TGC GGGCCATCGAGGACTTGATGGGGCTCATGTGTGCCAGCTGCCGAG	6150	
KP025765	9279 tgcgggccatcgaggacttggatggggctcatgtgtgccagctgccggag	9328	
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KP025765	9329 gcagaccagaagggcaccatccatctgaagccatccttctccaacggcct	9378	
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KP025765	9379 ccggatggatgtgggctcatctgtgacgtgtgctcctgtgagctggtat	9428	
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KP025765	9429 gacacagccctgcccaggggctggggcagggaaaggctaagctgaccac	9478	
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KP025765	9978 ccgc-aaaaaaaaaacaaccctggataattcttgaaaaataccttg	10026	
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ENSOARG000000	7801	ATGCCCAAGGCCCTACCAGCATGACATTACCCTTATGTTTAAGACTCTG	7850
KP025765	10977	atgcccaaggccccctaccagcatgacattacccttatgtttaagactctg	11026
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KP025765	11077	tcccacta-ggtgggtactaccagctcgggtctcagggattggtgctata	11125
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KP025765	11126	aggcatggtgatctttcctctcttgaaggtgctacatctctggcaggca	11175
ENSOARG000000	8001	GGGCCTGGGGTAATGCATCCCACAGGGCCCAACACAGTGTGGGTCCAGGC	8050
KP025765	11176	gggcctggggtaatgcatcccacagggcccaacacagtgtgggtccaggc	11225
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KP025765	11226	cagggcctataggctggccagagcttctggaactgggcaagggccacag	11275
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KP025765	11276	aaccataggggccacaggaaggactgactgggtaaatggaggaggttg	11325
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KP025765	11326	aatgaaaatccactaccaaatacttattaatcccaactgtatacttgc	11375
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KP025765	11376	cgctgggggtctactctttccttcattcttgcttttatctgccttctctt	11425
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KP025765	11426	ctctttacctgcctaccacagtgactcagagaaatgaagggagaacc	11475
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KP025765	11476	caggatgtctggagaaagacaggtatntagcacaggtggagccatgagat	11525
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KP025765	11726	caatacgaagcaaacgagtgtggctctgttccagtcacacttttgcaa	11775
ENSOARG000000	8601	AGCAGATGGTGAGCTGGATTTGGCCTGCAGGCTGTTAGTCAACCCCTATT	8650
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KP025765	11776	agcaggtggtgagctggatttggcctgcaggctgttattcaaccctatt	11825
ENSOARG000000	8651	GTAGCAATGATATTGGACTTTATCCTTTGGGCAAAGGGAATCATTGGAGG	8700
KP025765	11826	gtagcaatgatattggactttatcctttgggcaaagggaatcattggagg	11875
ENSOARG000000	8701	TTTTAATTTCAATTTCTCTTTATATGTTAACTTTGTATCCAGCCACCTTG	8750
KP025765	11876	ttttaatttcattttctctttatagtttaactttgtatccagccaccttg	11925
ENSOARG000000	8751	CTCAACTAACTTATGAAACCTAGTAACTTATCTATAGATTCTTCTTGCTA	8800
KP025765	11926	ctcaactaacttatgaaacctagtaacttatctatagattcttcttgcta	11975
ENSOARG000000	8801	TTTGGGGACATTTCTGATACTGGCAAATGACAGTTTTTTGTTTCTTACTT	8850
KP025765	11976	tttggggacattttctgatactggcaaatgacagttttttgtttcttactt	12025
ENSOARG000000	8851	TCCAATAGGTATGTTTTATTTCAATTTCTTACCTTATTGCATTGGCCAGG	8900
KP025765	12026	tccaataggtatgttttatttcattttcttaccttattgcattggccagg	12075
ENSOARG000000	8901	ACTCATCAGAGGTTCTTAAACAGGGGAGACATGTGTCTGGGTTTGTGTTT	8950
KP025765	12076	actcatcagaggttcttaaacaggggagacatgtgtctgggtttgtgttt	12125
ENSOARG000000	8951	TAGGGTGATCACTCCATCTGCAGAGTGAAGGTAGAGGGCAGAATAGAGC	9000
KP025765	12126	tagggtgatcactccatctgcagagtggaaggtagggggcagaatagagc	12175
ENSOARG000000	9001	TGGAAAAATGGAGAGAAGGGAACCTCCAGGAAAGAGAGGAAGAGATGACTC	9050
KP025765	12176	tggaaaaatggagagaagggaaactccaggaaagagaggaagagatgactc	12225
ENSOARG000000	9051	TGCCTGTGGCTGGAGATAGCCTAGCTCCCAAGGCAGCTCCGCCGGGTGGG	9100
KP025765	12226	tgctgtggctggagatagcctagctcccaaggcagctccgccgggtggg	12275
ENSOARG000000	9101	CAGGCTGGACTGCAGGTGCAAATGTGCCGCTCCTCTCTCGCCTTCCCTTC	9150
KP025765	12276	caggctggactgcaggtgcaaatgtgccgctcctctctcgccttcccttc	12325
ENSOARG000000	9151	TTTGCAGACCGGGGACGCTGCTCCATGGGCCAGTGCCTGTGTGAGCCTGG	9200
KP025765	12326	tttgcagaccggggacgctgctccatgggccaagtgcgtgtgtgagcctgg	12375
ENSOARG000000	9201	CTGGACAGGCCTGAGCTGTGACTGTCTCTCAGCAACGCCACCTGCATCG	9250
KP025765	12376	ctggacaggcctgagctgtgactgtcctctcagcaacgccacctgcatcg	12425
ENSOARG000000	9251	ACAGTAACGGGGTAGGCCTGGGCATGCGGCAGGCAGTGGGGGACAGGGGG	9300
KP025765	12426	acagtaacggggtaggcctgggcatacggcaggcagtgggggacaggggg	12475
ENSOARG000000	9301	CGGGCCCCCTCTCAGACAGGGATGGGGGCGCAGCTGGCTCACGGGGGCC	9350

KP025765	12476	cgggccccctctcagacagggatggggcgagctggctcacggggcc	12525
ENSOARG000000	9351	CCCTTTTACCTCAGGCCTCTGTAACGGACGTGGCTACTGCGAGTGC	9400
KP025765	12526	cccttttacctcaggcctctgtaacggacgtggctactgcgagtgcggc	12575
ENSOARG000000	9401	CGTTGCCACTGCAACCAACAGTCACTCTACACGGACACCGTCTGCGAGAT	9450
KP025765	12576	cgttgccactgcaaccaacagtcactctacacggacaccgtctgcgagat	12625
ENSOARG000000	9451	CAACTACTCGGCGGTGAGGCCGACTCGCTGGGTGTGGGTGCGGGACCC	9500
KP025765	12626	caactactcggcggtagggcggactcgtgggtgtgggtgcggggacc	12675
ENSOARG000000	9501	ATTGCCATGGGGCTGCCAAGGGGTGAGGTTGCGGGAGCGGCCTGGC	9550
KP025765	12676	attgccatggggctgccaaggggtgaggttgcgggagcgggcctggc	12725
ENSOARG000000	9551	AGGGGCCACCCAGCACAGTGCCCGTCTGCCCTCCTCCTCGCCACCCAG	9600
KP025765	12726	aggggccaccagcacagtgccgtctgcccctcctcctcggccaccag	12775
ENSOARG000000	9601	ATCCGCCTGGGCCTCTGTGAGGACCTGCGCTCCTGCGTGCAAGTCCAGGC	9650
KP025765	12776	atccgcctgggcctctgtgaggacctgcgctcctgcgtgcagtgccaggc	12825
ENSOARG000000	9651	CTGGGGCACTGGTAAAAGAAGGGGCGCACGTGCGAGGAGTGCAGTTCA	9700
KP025765	12826	ctggggcactggtgaaaagaagggcgcacgtgcgaggagtgcagcttca	12875
ENSOARG000000	9701	AGGTCAAGATGGTGGATGAGCTTAAGAAAGGTACAGGGCAGGCAAGAGAA	9750
KP025765	12876	aggtcaagatggtggatgagcttaagaaaggtacagggcaggcaagagaa	12925
ENSOARG000000	9751	CTAGGCAAGGGGAGACCTCTGAGAGGTGGGGGTGTCGCTCATCGGGCGG	9800
KP025765	12926	ctaggcaaggggagacctctgagaggtgggggtgtcgctcatcggggcgg	12975
ENSOARG000000	9801	GGCTGTAGAGCTGGGTAGGGGCTCATAGTCCAAAGTGAGGACAGGCAGT	9850
KP025765	12976	ggctgtagagctgggtaggggctcatagtcxaaagtgaggacaggcagt	13025
ENSOARG000000	9851	CCGCAAAGAGGGGTTCAGGCCTGGGAGTGGTCACAGAATCCAGACCGG	9900
KP025765	13026	ccgcaaagaggggttcaggcctggggagtggtcacagaatccagaccgg	13075
ENSOARG000000	9901	GCACACAGACCCAGGGAGGGAACGCACAGTCTGGCCAGGGCACCCAGTCC	9950
KP025765	13076	gcacacagaccagggagggaaacgcacagctctggccagggcaccagtcc	13125
ENSOARG000000	9951	TGGGGAGGGGGCCATGATCATAGCAAAGGTGCAAAAATGGGCCCTGGGGC	10000
KP025765	13126	tggggagggggccatgatcatagcaaaggtgcaaaaatgggcccctggggc	13175
ENSOARG000000	10001	ACACAGCCTCCTTCTCTGGTCAGAAAAATGTTCTAGAAGCCAGCTCC	10050
KP025765	13176	acacagcctccttctctgttcagaaaaatgttctagaagcccagctcc	13225
ENSOARG000000	10051	TGAGTGATGCCAGGACAGGCACAGATCTGCAGGCTTTGA-GGT-CTGGG	10098
KP025765	13226	tgagtgatgccagggacaggcacagatctgcaggctttgacggtctggg	13275
ENSOARG000000	10099	CAGGGCAGCCCCACTTTACCCCCAACCCCA-CCCCCATGTGCACAGT	10147

KP025765	13276	cagggcagccccactttaccccccaaccccaccccccatgtgcacagt	13325
ENSOARG000000	10148	CTGCTGGGAACTCACATTCTTCCCCAGGGAGAGGCCTCTCTCCTCCATG	10197
KP025765	13326	ctgccgggaactcacattcttccccagggagaggcctcctctcctccatg	13375
ENSOARG000000	10198	CCAACCCCGTGATGGGCGAGGTGGGCCGAGAGCAAGGCCGTGGTGAGGA	10247
KP025765	13376	ccaaccccgtgatgggcgaggtgggcccagagagcaaggccgtggtgagga	13425
ENSOARG000000	10248	GCGGACCCCTCCCCGACCCTGAGGTGCTCCGGGCTGGGGTCGGGTGCC	10297
KP025765	13426	gcfgaccctcgccaggcctgaggtgctccgggctgaggttggtgccc	13475
ENSOARG000000	10298	TGCTGACCGTCTGTGTCTGCAGCGGAGGAGGTGGTGGAGCACTGCTCCTT	10347
KP025765	13476	tgctgaccgtctgtgtctgcagcggagggaggtggtggagcactgctcctt	13525
ENSOARG000000	10348	CCGGGATGAGGATGACGACTGTACCTACAGTTACACCGTGGAGGGTGACA	10397
KP025765	13526	ccgggatgaggatgacgactgtacctacagttacaccgtggagggtgaca	13575
ENSOARG000000	10398	GCGCCCCCGGTCCCAACAGCACCGTCTCTGGTGCAGAGGAGGAAGGGTGAG	10447
KP025765	13576	gcgccccctgggcccacagcaccgtcctggtgcagaggaggaagggtag	13625
ENSOARG000000	10448	CCGGCGGGCTGGCAGGGATGGCCTGGGTGGCCTGTACAGCCTGCTTACG	10497
KP025765	13626	ccggcgggctggcagggatgggcatgggtggcctgtcaggcctgcttcag	13675
ENSOARG000000	10498	GGGGATGGCACTGGCTCCCTCCTCCTCCTTTCTCCCTAGAATGCCCC	10547
KP025765	13676	ggggatggcactggctccctcctcctcctcttctcctccctagaatgcccc	13725
ENSOARG000000	10548	CCGGGCACCTTCTGGTGGCTCATCCCCCTGCTCATCTTCTCCTTCTGTT	10597
KP025765	13726	ccgggcaccttctggtggctcatccccctgctcatcttctcctcctctgtt	13775
ENSOARG000000	10598	CCCGTCTGCTGCTGCTGCTGCTGCTGGAAGTACTGTGCCTGCTGCAAGG	10647
KP025765	13776	cccggtcctgctgctgctgctgctgctggaagtactgtgcctgctgcaagg	13825
ENSOARG000000	10648	TGGGGGCTTCCCCGGTCCCGACCCACCGGGTCCCTGTAGAGGGCAGGG	10697
KP025765	13826	tgggggcttccccggtcccgacccaccggggtccctgtagagggcaggg	13875
ENSOARG000000	10698	GCCAAGTGAACCCACACATTCCTCCCAGCTCTGGTGCCATCCCCACCCA	10747
KP025765	13876	gccaagtgaaccacacattcctcccagctctggtgcatccccaccca	13925
ENSOARG000000	10748	GCCCCTCGCCTTGCCAGCCACCAGTGGCCGAATTCCTGGGAGTCCCTGG	10797
KP025765	13926	gccccctgcctctgccagccaccagtggccgaattcctgggagtccctgg	13975
ENSOARG000000	10798	CCCAGGGGTGAGCCG-----CAACAGCCAACAGGAAGGAAG	10833
KP025765	13976	cccgggggtcagccgatgcaaagggtcacaacagccaacaggaaggaag	14025
ENSOARG000000	10834	GGCTCTGCCACCCAGGAGCTGGCCATCTCCCTGGGAGAAAAGACTGGAGA	10883
KP025765	14026	ggctctgccaccaggagctggccatctccctgggagaaaagactggaga	14075
ENSOARG000000	10884	CAGGAGAGTGCAGAGTATGGCCCGCGTGGAATACTGAAGGGGGCAGAGG	10933
KP025765	14076	caggagagtgcagagtatggcccggcgtggaataactgaagggggcagagg	14125

ENSOARG000000	10934	CGCCCATACAGCAGCCCCAGGGTCGTA	CGTACTCAAGTGTGTTACAGGAAAAA	10983
KP025765	14126	cgcccatacagcagccccagggtcgta	ctcaagtgtgttacaggaaaaa	14175
ENSOARG000000	10984	GCGTTCTGTGATCAAATACTTTTGAA	AAGCAGTTTCTCCTCTGCAGGGC	11033
KP025765	14176	gcgttctgtgatcaaatacttttgaaa	aacggtttctcctctgcagggc	14225
ENSOARG000000	11034	TTCTCGGAGCCTTCGAGCTAGTTGTT	GCATAATGAACTACATGGGGAA	11083
KP025765	14226	ttctcggagcctttgagctagttg	tttgcataatgaaactacatggagaa	14275
ENSOARG000000	11084	GGAATTCAGTGCTTCCCGAAGGGTTT	GATCACAGAACCTTTTACTTTCC	11133
KP025765	14276	ggaattcagtgcttcccgaaggggtt	gatcacagaaccttttactttcc	14325
ENSOARG000000	11134	GGAGTAGATAGTGGGACCAGAGTCCC	AGGGCGTGCATTTTGGGTACCCTC	11183
KP025765	14326	ggagtagatagtgggaccagagtccc	agggcgtgcattttgggtaccctc	14375
ENSOARG000000	11184	TGCCCTGTTCGCCTCTGTGCCACACC	CAGGCCCTGTA	ACTGCTTGA
KP025765	14376	tgccctgttcgcctctgtgccacacc	cagccccctgtaactgcttga	14425
ENSOARG000000	11234	TATCCTGATGTCTGGGAAGGCACTG	CTGACCCCTCTGGACCACTGGCGT	11283
KP025765	14426	tatcctgatgtctgggaaggcactg	ctgacccctctggaccactggcgt	14475
ENSOARG000000	11284	GGGTGGGAGGCAGTAGCCGGAGGGAC	TTCCTGGGCCAGTATGGCCGTCT	11333
KP025765	14476	gggtgggaggcagtagccggagggact	tccctgggccagtggtggccgtct	14525
ENSOARG000000	11334	CAGCTCTTATCCCCACCCTCCTTGCC	TCTAGGCCTGTCTGGCCCTTCTC	11383
KP025765	14526	cagctcttatccccaccctccttgcc	tcttaggcctgtctggccctctc	14575
ENSOARG000000	11384	CCTTGCTGCAACCAAGGTACCGCCTG	GCCTCGGCGGGGTGGTGGGGCT	11433
KP025765	14576	ccttgctgcaaccaaggtaccggcct	ggcctcggcgggggtggtggggct	14625
ENSOARG000000	11434	CTGACAGCTCCTCCTTTGGCGGGGT	GAGGGGAAGCAAGGC	GCCAAGTC
KP025765	14626	ctgacagctcctcctttggcgggggt	ggaggggaagcaaggcgccaagtc	14675
ENSOARG000000	11484	TGGGACAGAGGCCGGGACCGTGGCG	GGGTCCCACCTGTGGGGTGTGGT	11533
KP025765	14676	tgggacagaggccggggaccgtggt	gggggtcccacctgtggggtgtggt	14725
ENSOARG000000	11534	GGGGGAGGGTCTAGAAAGCAGCCCCT	CAGCCCCGTACTGAGGCCAGGTC	11583
KP025765	14726	gggggagggctagaaaagcagccct	cagccccgtactgaggccaggtc	14775
ENSOARG000000	11584	CCACAGGTCACATGGTGGGCTTCAAG	GAAAGACCACTACATGCTGCGAGAG	11633
KP025765	14776	ccacaggtcacatggtgggcttcaag	gaagaccactacatgctgcgagag	14825
ENSOARG000000	11634	AACCTGATGGCCTCGGACCACCTGG	ACACGCCCTTGCTGCGCAGTGGGAA	11683
KP025765	14826	aacctgatggcctcggaccacctgg	acacgcccttgctgcgcagcgggaa	14875
ENSOARG000000	11684	CCTCAAGGGGCGCGACACAGTCCGAT	GGAAGATCACCAACAATGTGCAGC	11733
KP025765	14876	cctcaaggggcgcgacacagtccgat	ggaagatcaccaacaatgtgcagc	14925

ENSOARG000000	11734	GGCCGGGCTTCGCTCGCACGCTGCTGGCATCAACCCCTCGGAGCTGGGT 	11783
KP025765	14926	ggccgggcttcgctcgcacgctgctggcatcaaccctcggagctgggt	14975
ENSOARG000000	11784	GAGGGCCGGGGCTGGGCACCGCGCTCCTGGCGCTGCCCTTGGGGCCCGG 	11833
KP025765	14976	gagggccggggctgggcaccgcggtcctggcgctgcccttggggcccgg	15025
ENSOARG000000	11834	GGCACGTTCACTACTGCTCGCTGCTCCGGGATCCAACATTCCTCTTTTCT 	11883
KP025765	15026	ggcacgttcaccactgctcgtgctcgggatccaacattcctcttttct	15075
ENSOARG000000	11884	CTGGGTATCAGGTGCAGGCACATGCCTGTTACCTCCTACCCTCCTGAGG 	11933
KP025765	15076	ctgggtatcgggtgcaggcacatgcctgttacctcctaccctcctgagg	15125
ENSOARG000000	11934	GGTACATGCCCCAGTGCCCCCAGCCTGAGCACGGCTTCTGGAGGGGAC 	11983
KP025765	15126	ggtacatgccccagtgccccagcctgagcacggcttctggaggggac	15175
ENSOARG000000	11984	TTCTGCAGTGCCCCACCATGGTGGGACTGACGATCCCCTCTTCTGCCTGC 	12033
KP025765	15176	ttctgcagtgccccacatggtgggactgacgatcccccttctcgcctgc	15225
ENSOARG000000	12034	CCTAGTGCCCTACGGACTGTCCCTGCG---GCCCCCTCTGCACCGAAA 	12079
KP025765	15226	cctagtgccctacggactgtccctgcggcttgcccgcctctgcaccgaga	15275
ENSOARG000000	12080	ACCGGCTGAAGCCTGGCACACGAGAGTGTGACCAGCTGCGCCAGGAGGTG .	12129
KP025765	15276	acctgctgaagcctggcacacgagagtgtgaccagctgcccagagggtg	15325
ENSOARG000000	12130	GAAGAGAATGTAAGGAGCTGGTCCCCGGCAGCGGGTGGCTCTGGGCCGGG 	12179
KP025765	15326	gaagagaatgtaaggagctggtccccggcagcgggtggctctgggctggg	15375
ENSOARG000000	12180	TGTGAGACGGGTGGTG----- 	12195
KP025765	15376	tgtgagacgggtggtgggagggcagaggggaagctgccgtggcgcctggat	15425
ENSOARG000000	12196	-----TGGCCGGGGG 	12205
KP025765	15426	gtaaccgggtgggagagaagggcttcctcggacatgtgcatggccggggg	15475
ENSOARG000000	12206	GTCACCCTGGGATCTGCCTCCTGTGAATGCTTCCAGAAGGGTAGAGCCAC 	12255
KP025765	15476	gtcaccctgggatctgcctcctgtgaatgcttccagaagggtagagccac	15525
ENSOARG000000	12256	TGCTCATGCCTGTGGCCATGCCCCAGCCACGCCAGGAGGTCTCTGGG 	12305
KP025765	15526	tgctcatgcctgtggccatgccccagccacgccagaggtcctctggg	15575
ENSOARG000000	12306	TGCAGGGGCTCCCCAGGGCCCCAGCCTCACAGCCCTCCCTTGCCCGGCA 	12355
KP025765	15576	tcaggggctccccagggccccagcctcacagccctcccttgcccggca	15625
ENSOARG000000	12356	GCTGAACGAGGTGTACCGACAAATCTCAGGCGCTCACAGCCTTACGAGA 	12405
KP025765	15626	gctgaatgaggtgtaccgacaaatctcaggcgctcacagcctttagcaga	15675
ENSOARG000000	12406	CCAAGTTCGGTGGGTCTGGGCGCCCGGGTGGGGTTAGGGTGGGGCA 	12455
KP025765	15676	ccaagttccggtgggtcctgggcgcccggggtggggttaggggtggggca	15725
ENSOARG000000	12456	TTGCTCCCATAGCTGACGCCAGGGGATTTCTCCAAGCAGACAATCCCTG 	12505

KP025765	15726	ttgctcccatagctgacgccaggggatttctccaagcagacaatccctg	15775
ENSOARG000000	12506	CCCCCTAGGGACCTTCTGGCTCACGGTCTTCACTTTGTCCCCACAGGCA	12555
KP025765	15776	ccccctagggaccttctggctcacggctttcactttgtccccacaggca	15825
ENSOARG000000	12556	GCAGCCCAACGCTGGGAAAAAGTGAGTTGAAGACACATCGGTGGGCAGTA	12605
KP025765	15826	gcagcccaacgctgggaaaaagtgagttgaagacacatcgggtgggcagta	15875
ENSOARG000000	12606	CCAGCCCCAAGTCCCACCTCCCCATCCCCACCTCCCCATCCCCACCTC	12655
KP025765	15876	ccagccccaagtcccacctccccatcccaactt-----ccgtctc	15916
ENSOARG000000	12656	CCCCATCCCAACTTCCGCC-----TCCA-----GTC	12681
		.	
KP025765	15917	catcatc-----tccgccccatgggagaggaggctgtccaggtctgtc	15960
ENSOARG000000	12682	CTGGGGTAGGACCTTCACTAAACACATACCCTTATGAAGCCCTCACCGAG	12731
KP025765	15961	ctgggtaggaccttactaaacacataaccgatatgaagccctcaccgag	16010
ENSOARG000000	12732	AGCCAGCCCCTGCATGAGAACAAGGAACCCACAGGGAAACGAGCCAACCC	12781
KP025765	16011	agccagcccctgtatgagaacaaggaaccacagggaaacgagccaacc	16060
ENSOARG000000	12782	AGTCCCTGGCCTCACACAGGCAATAGCCCCACCCAGTACCAGGGATGGC	12831
KP025765	16061	agtccctggcctcacacgggcaatagccccaccagtaggagggc	16110
ENSOARG000000	12832	CGGTGCCCAGAGCCAGACCTCCTCTGAGGCCAAAAGCCTTGATCCTGGAG	12881
KP025765	16111	cgggtgccagagccagacctcctctgaggccaaaagccttgatcctggag	16160
ENSOARG000000	12882	GCACCGCTGGTTACTAACCAGATGGTCCAGTGGGTGACACGCTTCTTTCC	12931
KP025765	16161	gcaccgctggttactaaccagatggtccagtggatgacacgcttcttcc	16210
ENSOARG000000	12932	CAGTTCCCACCCGAGTCCCAGACCCCCAGGGAAGAGTGGGGTGGGGTT	12981
KP025765	16211	cagttcccaccccgagtcccagacccccaggaagagtggggtggggtt	16260
ENSOARG000000	12982	CAATACCAAGAAGACAAAACCCAGCTCTTACCGGGCACAGCGCTGTCAGT	13031
KP025765	16261	caataccaagaagacaaaaccagctcttaccgggcacagcgtgtcagt	16310
ENSOARG000000	13032	AAGAACCATTTAGACTGGCACTTTGAGTGCTGACCACCGCCAGACCTTG	13081
KP025765	16311	aagaaccatthagactggcactttgagtgctgaccaccggccagacctg	16360
ENSOARG000000	13082	TTTTAAGGACTCGTGTGTGTGGTTCTTACTCAAGTGGGTATCAGTGCTAT	13131
KP025765	16361	ttttaaggacgctgtgtgtggttcttactcaagtgggtatcagtgtat	16410
ENSOARG000000	13132	GCCCTTTGTATAGTTGAGGAACTGAGGATCAGAGAAGTTAAGTAACTTA	13181
KP025765	16411	gccctttgtatagttgaggaaactgaggatcagagaagttaagtaactta	16460
ENSOARG000000	13182	CCCAAGGTTACCTAGCCATTAAGATAGAACCAGGGGAATTCCCTGGTGGT	13231
KP025765	16461	ccaaggttacctagccattaagatagaaccaggggaattccctggtggt	16510
ENSOARG000000	13232	TCAGCAGTTAAAGCTTCTAGGTGGCTCAGTGGTAAAGAACCTGCCTAGT	13281

KP025765	16511	tcagcagttaaagcttcctaggtggctcagtggttaaagaacctgcctagt	16560
ENSOARG000000	13282	GCAAAAAGACAAAAGACACGGGTTTCAGTCCCTGGGTCTGGAAGATTCCTG	13331
KP025765	16561	gcaaaagacaaaagacacgggttcagtcacctgggtctggaagatttcctg	16610
ENSOARG000000	13332	GAGTAGGAATGGCAACCCACTCCAGTATTCTTGTATGGAAAATTCCATGG	13381
KP025765	16611	gagtaggaatggcaacctccagtattccttgtatggaaaattccatgg	16660
ENSOARG000000	13382	ACGGAGGAACCCAGGTGGGCTACGGTCCATGGGGTCACAAAGAGTCGGACA	13431
KP025765	16661	acggaggaaccaggtgggctacggctccatgggggtcaciaaagagtccgaca	16710
ENSOARG000000	13432	CGATTGAGCTCAACACAGGAGCAACAGTTAAGACTCAGGCTTTGGCTGCC	13481
KP025765	16711	cgattgagctcaacacaggagcaacagttaagactcaggctttggctgcc	16760
ENSOARG000000	13482	AGGGACCAGGTTCAATTTCCATATGGTTGGGTGAAAAAAAAAATTTAAA	13531
KP025765	16761	agggaccaggttcaatttccatattggttgggtgaaaaaaaaaacatttaa	16810
ENSOARG000000	13532	GATGAAGAGCCAGGATTGCAGCCAGGCAGTCTGGCCTGTCCCCTTGGCAT	13581
KP025765	16811	gatgaagagccaggattgcagccaggcagctctggcctgtccccttggcat	16860
ENSOARG000000	13582	CTTTGCTGCCCCGCCTCCATGTGTGCGTCATCAGCCCCTCTGGGAGAGGT	13631
KP025765	16861	ctttgctgccccgcctccatgtgtgctcatcagcccctctgggagaggt	16910
ENSOARG000000	13632	GGGCAGGGAGAGGAGCCTCCTCTCACAGATAAGGACCCTGAGGCTGCAGA	13681
KP025765	16911	gggcagggagaggagcctcctctcacagataaggaccctgaggctgcaga	16960
ENSOARG000000	13682	GGGCGGTGGCGGGGCCAGGCCGGTCTCTGCATCTGTCTGGCTCTGAAAAA	13731
KP025765	16961	gggcggtggcggggccaggccggtctctgcatctgtctggctctgaaaaa	17010
ENSOARG000000	13732	AACGCTTTTTTGTTCCTGGAATCTTGTGCCCAATGCAGAGAGGACAGGC	13781
KP025765	17011	aacgctttttgttgcctggaatcttgtgccccaatgcagagaggacaggc	17060
ENSOARG000000	13782	AGGAGGGGCAGACAGGGACGCGTGGCAGCCTCCCAGATGGCCTGACACTC	13831
KP025765	17061	aggaggggcagacagggacgctggcagcctcccagatggcctgacactc	17110
ENSOARG000000	13832	CCCACCCACCCCGCCCCAGGCAGGACCACACCATTGTGGACACGGTGCT	13881
KP025765	17111	cccacccaccccgccccaggcaggaccacaccattgtggacacggtgct	17160
ENSOARG000000	13882	GATGGCTCCCCGCTCAGCCAAGCAGGCCCTGTTGAAGTTGACAGAGAAGC	13931
KP025765	17161	gatggctccccgctcagccaagcaggccctgttgaagttgacagagaagc	17210
ENSOARG000000	13932	ACGTGGAGCAGGGGGCCTTCCATGAGCTCAAGGTGGCCCCCGGCTATTAC	13981
KP025765	17211	acgtggagcagggggccttccatgagctcaaggtggccccggctattac	17260
ENSOARG000000	13982	ACACTCACTGCAGACCAGGGTAGGTGGCAGGCTCCCTGTGCCCTCCCT	14031
KP025765	17261	acactcactgcagaccagggtaggtggcaggctccctgtgccctccct	17310
ENSOARG000000	14032	CTCACCTCCCACCCCGTGTGGCCCCCTGACCCTCGTCTGATGGCTCCCT	14081
KP025765	17311	ctcacctcccaccccggtgctggccccctgaccccgctctgatggctccct	17360

ENSOARG000000	14082	ACCAGACGCCCCGAGGCATGGTGGAGTTCCAGGAGGGCGTGGAGCTGGTGG	14131
KP025765	17361	accagacgccccgaggcatggtggagttccaggagggcgtggagctggtgg	17410
ENSOARG000000	14132	ACGTGCGGGTGCCTCTGTTTATCCGGCCCCGAGGATGACGACGAGAAGCAG	14181
KP025765	17411	acgtgcggggtgcctctgtttatccggccccgaggatgacgacgagaagcag	17460
ENSOARG000000	14182	CTGCTGGTGGAGGCCATTGATGTGCCCGTGGGCACCGCCACCCTCGGACG	14231
KP025765	17461	ctgctggtggaggccattgatgtgcccgtgggcaccgccaccctcggacg	17510
ENSOARG000000	14232	CCGCCTGGTCAATATCACCATCATCAAGGAGCAAGGTCGGTCAGGATGGG	14281
KP025765	17511	ccgcctggtcaatatcaccatcatcaaggagcaaggtcggtcaggatggg	17560
ENSOARG000000	14282	GGCCACCGGGGACCCAAAGGGGACTCTGGGACCCTTGTCTCTCCTCACAT	14331
KP025765	17561	ggccaccggggaccxaaaggggactctgggacccttgtctctcctcacat	17610
ENSOARG000000	14332	CCAAGTGGAAAGTGGGACCTGGCCCTGTGGCCTAGGCAAGCAACTCAACCT	14381
KP025765	17611	ccaagtggaagtgggacctggccctgtggcctaggcaagcaactcaacct	17660
ENSOARG000000	14382	CTGAGCCTTGGTTTCCCATCTGCAAATGGGTATTAGGCTCTTGTGAGG	14431
KP025765	17661	ctgagccttggtttcccatctgcaaatgggtattaggctcttgtgagg	17710
ENSOARG000000	14432	GGGGTGTGGCTATACCTCTCATAAGTGTGCAGTGGGGGGCTTCTCTTA	14481
KP025765	17711	ggggtgtggctataacctctcataagtgtgcagtggggggcttctctta	17760
ENSOARG000000	14482	TCATCACCAGAGGGTACTGAGTTTTCTGGAGCCGTCCCACGACCCTCTC	14531
KP025765	17761	tcatcaccagagggtactgagtttctggagccgtcccacgacctctc	17810
ENSOARG000000	14532	CTTGTCTGTGGCCTTTGAACTTGAGACTGAATGGGTCCCAGGATGCCA	14581
KP025765	17811	cttgtcctgtggcctttgaacttgagactgaatgggtcccaggatgccca	17860
ENSOARG000000	14582	GGACATCAGAGCAAGAAGGGACCTGGGGCTTCTTCTGCCAGGCCTACCT	14631
KP025765	17861	ggacatcagagcaagaagggacctggggcttcttctgcccaggcctacct	17910
ENSOARG000000	14632	AGAAGGGCGGGCAAGGCGTCACACCACCGTCACTTACCTTGCCTTCCATG	14681
KP025765	17911	agaagggcgggcaaggcgtcacaccaccgtcacttaccttgccttccctg	17960
ENSOARG000000	14682	CTAGTTCTCGGGAAACTGGACTTGTTGATAACCATCTTCCGGTGTCC	14731
KP025765	17961	ctagttcctcgggaaactggacttgttgataaccatcttccgggtgtcc	18010
ENSOARG000000	14732	AGAGGGTCTGTTCTGGTCGCTGACCCCTCGTCCCCACTTGCTGCAGGACT	14781
KP025765	18011	agagggctctgttctggtcgtgacccctcgtcccacttgctgcaggact	18060
ENSOARG000000	14782	TAGGCCTGCTCTGCCTCGGCCCTCGGTCTCAGCCCTCATCTCTGGTCTTG	14831
KP025765	18061	taggcctgctctgcctcggccctcggctctcagccctcatctctggtcttg	18110
ENSOARG000000	14832	CTGCTGCCTGGCCTCCCTTCTGCCCTGACCCTTCCAGGATGTCAGCTG	14881
KP025765	18111	ctgctgcctggcctcccttctctgccctgacccttccaggatgtcagctg	18160

ENSOARG000000	14882	GACACTGTTTCAGCCTTGTC	ACTTTTCTGGAAGACTTTTCCAGCCCCT	14931
KP025765	18161	gacactgtttcagccttg	tcacttttctggaagacttttccagcccct	18210
ENSOARG000000	14932	ATGTCCACCCTCCCCAGAGAGCAGAGGGGTGAGGAGTGATAAGAAGATTC		14981
KP025765	18211	atgtccaccctccccagagagcagaggggtgaggagtgataagaagattc		18260
ENSOARG000000	14982	CTGAAGTCTGAGCTGGGCTGGGCCAGAGGGAGGGCAGGGGCTGAAAGGGG		15031
KP025765	18261	ctgaagtctgagctgggctgggccagagggagggcaggggctgaaagggg		18310
ENSOARG000000	15032	GACTGTGGTCAAGATCCCTGAACAGCGCCTGGCTCCTTGACCCAGCGGG		15081
KP025765	18311	gactgtggtcaagatccctgaacagcgcctggctccttgacccagcggg		18360
ENSOARG000000	15082	ATCGTGTCTTTGAGCAGCCGAGTATTTGGTCAGCAGCGGGGAGCACGT		15131
KP025765	18361	atcgtgtcctttgagcagcccagatatttggtcagcagcggggagcacgt		18410
ENSOARG000000	15132	TGCCCGTATCCCTGTGGTCCGGCGCATCCTGGACAGCGGCAAGTCACAGG		15181
KP025765	18411	tgcccgtatccctgtggtccggcgcacatcctggacagcggcaagtacagg		18460
ENSOARG000000	15182	TCTCCTACCGCACGCAGGACAACACCGCCAAGGGCAACCGGGTGAGTCCT		15231
KP025765	18461	tctcctaccgcacgcaggacaacaccgccaagggcaaccgggtgagtcct		18510
ENSOARG000000	15232	TGCCACGAGGTCAGGCACATCCCAAGGGCCCAGTGGGGGCCGGACACAGC		15281
KP025765	18511	tgccacgaggtcaggcacatcccaagggcccagtgggggccggacacagc		18560
ENSOARG000000	15282	GGCATCCTGGGTCTCTGGATGCTGGTGGTCCACAGGCTGGCCTCCCAGG		15331
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KP025765	18561	agcatcctgggtctctggatgctggtggtgccacaggctggcctcccagg		18610
ENSOARG000000	15332	GACACGTTCCCTCTGCCACCCTGCAGCAGGGGCATCAGTTCAGTTCAGTC		15381
KP025765	18611	gacacgttccctctgccaccctgcagcaggggcatcagttcagttcagtc		18660
ENSOARG000000	15382	GCTCAGTCATGTCCAACCTCTTGCACCCCATGGACTGCAGCACCCAGAG		15431
KP025765	18661	gctcagtcatgtccaactccttgcgaccccatggactgcagcaccaccaga		18710
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KP025765	18711	ccaccctgtccatcatcaactcctggcgcttactcaaactcatgtccatt		18760
ENSOARG000000	15482	GAGTTGGTGATGCCATCCAGCCATCTCATCCTCTGTGTCCCCTTCTCCTC		15531
KP025765	18761	gagttggtgatgccatccagccatctcatcctctgtgtccccttctcctc		18810
ENSOARG000000	15532	CCGCCTACAGTCTTTCCAGCATCAGGGTCTTTTCAAATGAGTTGGGAAG		15581
KP025765	18811	ccgcctacagtctttccagcatcagggctttttcaaagagttgggaag		18860
ENSOARG000000	15582	ATCTCCTGGAGAAGGAAGTGGCAACCTACTCCTATTCTTGCCTAGAAAAC		15631
KP025765	18861	atctcctggagaaggaagtggcaacctactcctattcttgcctagaaaac		18910
ENSOARG000000	15632	CCCATAGACAGAGGAGCCTAGTGGGCTACAGTCCATGGGGTGGCAAAAAG		15681
KP025765	18911	cccatagacagaggagcctagtggttacagtcctatgggggtggcaaaaag		18960
ENSOARG000000	15682	TTGGACAGGACTAAGCAATTTCACTTTACCAAAAAGGCCAATGATGCC		15731

KP025765	18961	ttggacaggactaagcaatttcactttcaccaaaaaggccaatgatgccc	19010
ENSOARG000000	15732	TGAATAAGGCCTCCTCATGTCCAGACCATCCGAGTCCCCCTTGCAACATT	15781
KP025765	19011	tgaataaggcctcctcatgtccagaccatccgtgtcccccttgcaacatt	19060
ENSOARG000000	15782	CCAGGACCCACCCAGATACTTCAAAGAAATAGACTGCCCTCTCTGCCATG	15831
KP025765	19061	ccaggacccaccagatacttcaaagaaatagactgcctctctgccatg	19110
ENSOARG000000	15832	GCCCAGAGACTCTGGCCTTCTGTCCCCAGGCAGGCTCTCTGTCGGCCAG	15881
KP025765	19111	gcccagagactctggccttctgtccccaggcaggccctctgtcggccag	19160
ENSOARG000000	15882	GCCACAGGACCGATCCTTCAGGGCAGGGAGGGCCTCGTGGTGGCCTGGTG	15931
KP025765	19161	gccacaggaccgatccttcagggcagggagggcctcgtggtggcctggtg	19210
ENSOARG000000	15932	TCAACTTTTTTCGCAACTTAATCACTCTCAGACAACAGCCATGTCTGTGCT	15981
KP025765	19211	tcaactttttcgcaacttaatcactctcagacaacagccatgtctgtgct	19260
ENSOARG000000	15982	TAGTTTGGCTTATACGTCTGTTTTTCTAAATTAATTACCAACGTTTTGTG	16031
KP025765	19261	tagtttggccttatacgtctgtttttctaaattaattaccaacgttttgtg	19310
ENSOARG000000	16032	TATTTTGATTTTTTTGGCCATGCTGCGTGACTTGTGGGATCTTAGTCCCC	16081
KP025765	19311	tattttgatTTTTTTGGCCATGCTGCGTGACTTGTGGGATCTTAGTCCCC	19360
ENSOARG000000	16082	CAACCAGGGATCAAACCTGGACCCAGGGA-CTGGCAATGAAATTGAAGAG	16130
KP025765	19361	caaccagggatcaaacctggaccaggacactggcaatgaaattgaagag	19410
ENSOARG000000	16131	TCCTAACCCTGGACTTGGAGAAGGCAATGGCATCCCCTCCAGCACTCT	16180
KP025765	19411	tcctaaccactggacttggagaaggcaatggcatcccactccagcactct	19460
ENSOARG000000	16181	TGCCTGGAAAATCCCATGGATGGAGGGCCTGGTGGGCTGCAGTCCATGG	16230
KP025765	19461	tgcttgaaaatcccataggatggaggggcctggtgggctgcagtccatgg	19510
ENSOARG000000	16231	GGTCTCAAACAGTCGGACACGGCTGAGCGACTTCACTTTCACTTTTCACT	16280
KP025765	19511	ggtctcaaacagtcggacacggctgagcgaacttcactttcacttttact	19560
ENSOARG000000	16281	TTCATGCATTGGAGAAGGAAGTGGCAACCCACTCCAGTGTCTTGCCTGG	16330
KP025765	19561	ttcatgcattggagaaggaactggcaaccactccagtgttcttgcctgg	19610
ENSOARG000000	16331	AGGATCCCAGGGACGGGGAGCCTGGTGCCTGCCGTCTATGGAGTCACA	16380
KP025765	19611	aggatcccaggacgggggagcctggtgcctgcccgtctatggagtcaca	19660
ENSOARG000000	16381	CAGAGTCGGACACGACTGAAGCGACTTAGCAACCACTGGACTGCCAGGGA	16430
KP025765	19661	cagagtcggacacgactgaagcgacttagcaaccactggactgccaggga	19710
ENSOARG000000	16431	ATTCCCTATTACCATTACCAATTTTTTTAAATTAATTTTTTTATTGGCAT	16480
KP025765	19711	attccctattaccattaccaatTTTTTTAAATTAATTTTTTTATTGGCAT	19760
ENSOARG000000	16481	ACAGTTGATTTACCATATTGTGTTTCTGCTGTACAGCTAAGTGAATCAGT	16530

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 ENSOARG000000 16931 GACTAGTTCTCATTACTGCTCTAATGCTCCCAGTAAAAATCCAAAAAGG 16980
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 KP025765 20211 gactagttctcattactgctcta atgctcccagtaaaaattccaaaaagg 20260
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 ENSOARG000000 17081 TCTCCTCTGTCCATGGGATTTTTCCAGGCAAGAATACTGGAGTGGATTGC 17130
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 ENSOARG000000 17181 CCTGCATTGCGGGCAGATTCTTTACCATCTGAGCCACTAGGGAAGCCCTT 17230
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 KP025765 20461 cctgcattgcgggcagattctttaccatctgagccactaggaagccctt 20510
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 KP025765 20511 tataaagatcctttggtagtgaaactatgttttttaacattttaaaatatt 20560
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KP025765	20611	ctaataaaattagcaccatttactcttgacatagattcaccattgttg	20660
ENSOARG000000	17381	ATAGTTGCTTTCTCTCTTTCTATACAGATGTATATATGTATGTGTATACA	17430
KP025765	20661	atagttgctttctctctttctatacagatgtatatatgtatgtgtataca	20710
ENSOARG000000	17431	GATATATGCCTGGGGGTATAGCTCAGTGGTAGAGCGCATGCTTAGCATGC	17480
KP025765	20711	gatatatgcctgggggtatagctcagtggttagagcgcacatgcttagcatgc	20760
ENSOARG000000	17481	ATGAGGCCCTGGGTTCAATCCCCAGTACCTCCATCCTTACATTTTTCGGC	17530
KP025765	20761	atgaggccctggggtcaatccccagtacctccatccttacatTTTTcggc	20810
ENSOARG000000	17531	TTCCCTGGTGGCTCGGACTGCTAGCAAAGAATCTGAATGTTAGTTTACAG	17580
KP025765	20811	ttccctggtaggctcggactgctagcaaagaatctgaatgtagtttacag	20860
ENSOARG000000	17581	TGCCACCTAGTGAATCATGTGAAAAGGCTTCCCCCTACACACACTGCAA	17630
KP025765	20861	tgccacctagtggaatcatgtgaaaaggcttccccctacacacactgcaa	20910
ENSOARG000000	17631	TCCATCTGCCCCATATCAGCTCAGTTCAGTACAGTCGTGTCCGACTCTTT	17680
KP025765	20911	tccatctgccccatatacagctcagttcagtcagtcgtgtccaactcttt	20960
ENSOARG000000	17681	ACGACCCCATGAATCACAGCACGCCAGGCCTCCCTGTCCATCACCAACTC	17730
KP025765	20961	acgaccccatgaatcacagcacgccaggcctccctgtccatcaccaactc	21010
ENSOARG000000	17731	CAGGAGTCCACTCAAAGTCACGTCCATCGAGTCAGTGATGCCATCCAGCC	17780
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KP025765	21011	ccggagtccactcaaagtcacgtccatcgagtcagtgatgcatccagcc	21060
ENSOARG000000	17781	ATCTCATCCTCTGTTGTCCCCTTCTCCTCCTGCCCCAATCCCTCCCAGC	17830
KP025765	21061	atctcatcctctgtgtgtccccttctcctcctgcccccaatccctcccagc	21110
ENSOARG000000	17831	ATCAGAGTATTTTCCAATGAGTCAACTCTTCACATGAGATGGCCAAAGTA	17880
KP025765	21111	atcagagtatTTTccaatgagtcaactcttcacatgagatggccaaagta	21160
ENSOARG000000	17881	CTGGAGTTTCAACTTTAGCATCATTCTTCCAAAGAAAACCCAGGGCTGA	17930
KP025765	21161	ctggagtttcaacttttagcatcattccttccaaagaaaaccagggtga	21210
ENSOARG000000	17931	TCTCCTTCAGAATGGACTGGTTGGATCTCCTTGCAGTCCAAGGGACTCTC	17980
KP025765	21211	tctccttcagaatggactggttggatctccttgcagtcctaaggactctc	21260
ENSOARG000000	17981	AAGAGTCTTCTCCAACATCACAGTTCAAAGCATCAATTCTTTGGCGCTC	18030
KP025765	21261	aagagtcttctccaacatcacagttcaaagcatcaattctttggcgctc	21310
ENSOARG000000	18031	AGCCTTCTTCACAGTCCAACCTCTCACATCCATACATGACCACTGGGAAAA	18080
KP025765	21311	agccttcttcacagtccaactctcacatccatacatgaccactgggaaaa	21360
ENSOARG000000	18081	CCATAGCTTTGACTAGATGGACCTTTGTTGGCAAAGTAATGTCTCTGCTT	18130
KP025765	21361	ccatagctttgactagatggacctttgttggcaaagtaatgtctctgctt	21410

ENSOARG000000	18131	TTCAATATGCTATCTAGGCTGGTCATAACTTTTCCTTTCAAGGAGTGAGCG	18180
KP025765	21411	ttcaatatgctatctaggctggtcataacttttcctttcaaggagtgagcg	21460
ENSOARG000000	18181	TCTTTTAATTTTCATGGCTGTAGTCACCATCTGCAGTGATTTTGGAGCCCC	18230
KP025765	21461	tcttttaattttcatggctgtagtcaccatctgcagtgatTTTGGAGCCCC	21510
ENSOARG000000	18231	AAAAAATAAAGTCTGACACTGTTTCCACTGTTTCCCCTCTATTTCCCAT	18280
KP025765	21511	aaaaaataaagtctgacactgTTTCCACTGTTTCCCCTCTATTTCCCAT	21560
ENSOARG000000	18281	GAAGTGATGGGACCGGATGCCATGATCTTTGTTTTCTGACTTAATCTCAA	18330
KP025765	21561	gaagtgatgggaccggatgccatgatctTTGTTTTCTGACTTAATCTCAA	21610
ENSOARG000000	18331	GATGTTTCAGGAAAAGCTCTAGGGCATTGAAAAATAAAAAGTGGAGGTAA	18380
KP025765	21611	gatgttcaggaaaaagctctagggcattgaaaaataaaaactggaggtaa	21660
ENSOARG000000	18381	TAGAAGCAACCCACCCAGGAAGCAGGGCCGGGGGATGGTGGGATTCAGA	18430
KP025765	21661	tagaagcaaccacccaggaagcagggccgggggatggTGGGATTCAGA	21710
ENSOARG000000	18431	CTTCAGAGCCCCAGGGTGGGAAGAGTTCCTCCCTCCGAGGTGAGGCCTG	18480
KP025765	21711	cttcagagccccagggTGGGAAGAGTTCCTCCCTCCGAGGTGAGGCCTG	21760
ENSOARG000000	18481	CAAATCTCAGCTCCCCTGGCTGAGTGCCTGCCTGTGTGGGACCTCCTGT	18530
KP025765	21761	caaatctcagctcccctggctgagTGCCTGCCTGTGTGGGACCTCCTGT	21810
ENSOARG000000	18531	ATCTGCATCCTTGTCTCTCTGTGCCTTGGTTCAAATCCCAGTTCACCAC	18580
KP025765	21811	atctgcatcctTGTCTCTCTGTGCCTTGGTTCAAATCCCAGTTCACCAC	21860
ENSOARG000000	18581	AACTACCTGTGTGAACCTGGGCATCTTTCTTTACCTCTGTGTGCCTCAGT	18630
KP025765	21861	aactacctgtgtgaacTGGGCATCTTTCTTTACCTCTGTGTGCCTCAGT	21910
ENSOARG000000	18631	TACCTGATCTGTAAAATGGGGACAGTAATATCTCTACCTCACTCTGCCCT	18680
KP025765	21911	tacctgatctgtAAAATGGGGACAGTAATATCTCTACCTCACTCTGCCCT	21960
ENSOARG000000	18681	GAGGAAGAAACGAGCTAATATCTGTAAAGTACTTGATGCACAAGAGGTGC	18730
KP025765	21961	gaggaagaaacgagctAATATCTGTAAAGTACTTGATGCACAAGAGGTGC	22010
ENSOARG000000	18731	TGTATAAACAGGAGCCGTTCCGTGTCCATGTGGGACAGTCTGTGCGTGAG	18780
KP025765	22011	tgtataaacaggagccgTCCGTGTCCATGTGGGACAGTCTGTGCGTGAG	22060
ENSOARG000000	18781	GGTCTCTGCATTGGCTGTGGGGTGGGGTGGAGCGTGTAGCCTTGACTCG	18830
KP025765	22061	ggtctctgcattggctGTGGGGTGGGGTGGAGCGTGTAGCCTTGACTCG	22110
ENSOARG000000	18831	TCTCCCAGGCCTGCTCCAACCTCTGACCCCTTCCCATTCTAGGACTACAT	18880
KP025765	22111	tctcccaggcctgctCCAACCTCTGACCCCTTCCCATTCTAGGACTACAT	22160
ENSOARG000000	18881	CCCCATGGAGGGTGAGCTGCTGTTCCAACCTGGAGAGACCTGGAAGGAGC	18930
KP025765	22161	ccccatggagggtgagctGCTGTTCCAACCTGGAGAGACCTGGAAGGAGC	22210
ENSOARG000000	18931	TGCAGGTGAAGCTGCTGGAGCTGCAGGAGATGGACTCCCTCCTGCGGGGC	18980

KP025765	23011	ccatggaccgcggcctccctgttcatcaccaactctcggagtactca	23060
ENSOARG000000	19781	ACTCATGTCTATTGAGTTGGTGATGCCATCTAACCATCTCATCCTCTGTT	19830
KP025765	23061	 actcatgtctattgagttggtgatgccatctaaccatctcatcctctgtt	23110
ENSOARG000000	19831	GTCCCCTTCTCCTCCTGCCTTCAATATTTCCAGCGTCAGGGTCTTTTCA	19880
KP025765	23111	 gtccccttctcctcctgccttcaatatttcccagcgtcagggtcttttca	23160
ENSOARG000000	19881	AATGAGTCAGTTCTTCGCATCAGGTCGCCAAAATATTGGAGTTTCTGCTT	19930
KP025765	23161	 aatgagtcagttcttcgcatcaggtcgccaaaatattggagtttctgctt	23210
ENSOARG000000	19931	CAACATCAGTCCTTCCAATGAACATTCAGGACTGATCTTTAGAATGGACT	19980
KP025765	23211	 caacatcagtccttccaatgaacattcaggactgatctttagaatggact	23260
ENSOARG000000	19981	GGTTGGATCTCCTTGCAAGGGACTCTTCAAGAGTCTTCTCCAACA	20030
KP025765	23261	 ggttggatctccttgcaagggactcttcaagagtcttctccaaca	23310
ENSOARG000000	20031	CCACAGTTCACAAGCGTCAATACTTTGGCCCTCAGCTTTCTTTATAGTCC	20080
KP025765	23311	 ccacagttcacaagcgtcaatactttggccctcagctttctttatagtcc	23360
ENSOARG000000	20081	AACTCTCATATCCATACATGTGATGTGATGTGAAGGGGAAGGAGTCTTGG	20130
KP025765	23361	 aactctcatatccatacatgtgatgtgatgtgaaggggaaggagtcttgg	23410
ENSOARG000000	20131	TGTTTAACTGTGCGTCTGGTGCCCTGGTGGTGCAGATGGGTTCTGCC	20180
KP025765	23411	 tgtttaactgtgctctggtgccccctggtggtgcagatgggttctgcc	23460
ENSOARG000000	20181	CCCTCAAAGCCAGAGAGGAGTCTCTGCTGACTGCCTTGCCCTGGCTTGAC	20230
KP025765	23461	 ccctcaaagccagagaggagtctctgctgactgccttgccctggcttgac	23510
ENSOARG000000	20231	CCTCTGCAGATGAGCTGGACCGGAACCTAATGAACCAGACTGTGTCATCA	20280
KP025765	23511	 cctctgcagatgagctggaccggaacttaatgaaccagactgtgtcatca	23560
ENSOARG000000	20281	CCCCACCACCCCGGGTGACCTGGGTGCCCCACAGAATCCAATGCCAA	20330
KP025765	23561	 ccccaccaccccggggtgacctgggtgccccacagaatccaatgcca	23610
ENSOARG000000	20331	GGCTGCCGGGTCCCGGAAGATCCACTTCAACTGGTTGCCGCTCCTGGCA	20380
KP025765	23611	 ggctgccgggtcccggaagatccacttcaactggttgccgctcctggca	23660
ENSOARG000000	20381	AGCCAACAGGGTACCGGTAAGGTGGGGGCGTTGAGGGAGGTGGATGGG	20430
KP025765	23661	 agccaacagggtaccgggtaaggtgggggcgttgaggaggtggatggg	23710
ENSOARG000000	20431	AGGCCGGGCATACACTGTTGAGGTGAGCCCGCTGA-----	20465
KP025765	23711	 aggccgggcatacactgttgaggtgagcccgctgaggccagagaggccc	23760
ENSOARG000000	20466	-----	20465
KP025765	23761	cagggagaggagaggcgctgcttggcctcagtgggtggggaacccccatc	23810
ENSOARG000000	20466	-GCCGCTGAGGGAGGAAGAAGTCCTTGAATGTGGCCCCAGAACCAGA	20514
KP025765	23811	 ggccgctgagggaggaagaagtccttgaatgtggccccagaaccaga	23860

ENSOARG000000	21315	CTGCCCACGCAGGTTAACGAGAGTGGCTCAATTCTACATGGGTGTCTTCA 	21364
KP025765	24661	ctgcccacgcaggttaacgagagtggctcaattctacatgggtgtcttca	24710
ENSOARG000000	21365	GGTCAGGGTAGAGAGATTTAGCAAATAAAAAGCAGAGGACGCCCTGAACT 	21414
KP025765	24711	ggtcagggtagagagatttagcaaataaaaagcagaggacgccctgaaact	24760
ENSOARG000000	21415	TCAAACAGTTTTTCTAGTACATTTTCATGCAACGTGTTATCTGGCAGCCCT 	21464
KP025765	24761	tcaaacagtttttctagtacatttcatgcaacgtgttatctggcagccct	24810
ENSOARG000000	21465	AGGCCAGAGCACTAGGCAGAACTCTATTTTTCTCCTGTCCTGGAAGGGAG 	21514
KP025765	24811	aggccagagcacttaggcagaactctatTTTTCTCCTGTCCTGGAAGGGAG	24860
ENSOARG000000	21515	AGATGACCCCTGCACTTGTGAGGACGGAAAACTTTTAGGGGAGCTCAGT 	21564
KP025765	24861	agatgacccctgcacttgtcaggacggaaaacttttcaggggagctcagt	24910
ENSOARG000000	21565	CCCCGACTCTTGCCTGGTACAGGGCCCTCCTCTCTGCATCCTCACATGTT 	21614
KP025765	24911	ccccgactcttgcctggtagcagggccctcctctctgcatcctcacatgtt	24960
ENSOARG000000	21615	CAGTCCATCCCAGGGATGGAGAGCTTCCCCTCCAGATACAACCTGTGG 	21664
KP025765	24961	cagtccatcccagggatggagagcttcccactcccagataacaacctgtgg	25010
ENSOARG000000	21665	ACCCTAAAGTGGGTGAGACTTAGCACTCCCAGGTGGCCCAACAGGGCAGA 	21714
KP025765	25011	accctaaagtgggtcagacttagcactcccaggtggcccaacagggcaga	25060
ENSOARG000000	21715	GGGCAGCAGGATTGTTCTGGGCCTCAGGCTCCTTGCTCTGTTACCTGGC 	21764
KP025765	25061	gggcagcaggattgttctgggcctcaggctccttgctctgttcacctggc	25110
ENSOARG000000	21765	TGACCAAGCACAACTTTTCAGCCGCTGCGTCACACCTTGGCTCCTGCTG 	21814
KP025765	25111	tgaccaagcacaaacttttcagccgctgctgctcacaccttggtcctgctg	25160
ENSOARG000000	21815	GCGACCCCTGATCCACGCCTGGACCACTGTCAGGAAGTCTTTTGTGGCCC 	21864
KP025765	25161	gcgacccctgatccacgcctggaccactgtcaggaagtcttttgtggccc	25210
ENSOARG000000	21865	GGTCTTTAATCTTAACCAGGCGTACTGATGATTCCGGCGCACAGTCTTA 	21914
KP025765	25211	ggtctttaatcttaaccaggcgtgactgatgattccggcgcacagtctta	25260
ENSOARG000000	21915	GCTCTTGCCTCACAACGTGTGAGGAAGCCCTCCTGACCAAGGGCATCA 	21964
KP025765	25261	gctcttgcctcacaacgtgtgaggaagccctcctgaccaagggcatca	25310
ENSOARG000000	21965	GCCCTTTGGGGTGGTCCCCTTCCCTTCTCCCCCTGGCAGACAGATGCGAC 	22014
KP025765	25311	gccctttgggggtggtccccttcccttctccccctggcagacagatgcgac	25360
ENSOARG000000	22015	AGGGTGGACCCACCTCAGCACTCAGAGGCTCCCCAGGCAGACAGTCC 	22064
KP025765	25361	agggtggacccacctcagcactcagaggcctccccaggcagacagtcc	25410
ENSOARG000000	22065	AACATCAGCCAGTTCTTGGAGCACAGCTATTCTTTATCAGACAGCATCA 	22114
KP025765	25411	aacatcagccagttcttggagcacagctattctttatcagacagcatca	25460
ENSOARG000000	22115	AACTTTGCAAGTGGGGTTTTCCCTGAGAGCCCTCCTTTGGACCCCTCGGA 	22164

KP025765	25461	aacttttgcaagtggggttttccctgagagccctcctttggaccctcggga	25510
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KP025765	25511	cactgagatgtcttctgatcatccagagagccccatgttgtcaggttggg	25560
ENSOARG000000	22215	GCCCCTAGGCACTGTAACCTCACTCAGAGCAGCCTGGAGTCTCTTCCTTAC	22264
KP025765	25561	gcccctaggcactgtaactcactcagagcagcctggagtctcttccttac	25610
ENSOARG000000	22265	CCCTCCCAGGGCTGCATGTCTCCCTTCTGGGTGTGGGGGAGCTGCCTCA	22314
KP025765	25611	ccctcccagggctgcatgtcctcccttctgggtgtgggggagctgcctca	25660
ENSOARG000000	22315	CCTCTGCTCCAGGCTAACTGGCTCTTGTGCAACCTCCATCCCACCTGGC	22364
KP025765	25661	cctctgctccaggctaactggctcttgtgcaacctccatcccacctggc	25710
ENSOARG000000	22365	GCACTCGGCTCGTGCAGGCCTCGGCCTGGCTCGGCTGCAGGATCAGGCC	22414
KP025765	25711	gcactcggctcgtgcaggcctcggcctggcctcggctgcaggatcaggcc	25760
ENSOARG000000	22415	TGCCTTCTCCTCCCATCCTTGCCAGGTGGCCAGGGCAGCCTTGCAAG	22464
KP025765	25761	tgcccttctcctcccatccttggccaggtggccagggcagccttggcaag	25810
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KP025765	25811	tgcccgaatatctccacttttaaaatagtttttatttattgttttggtt	25860
ENSOARG000000	22515	TGCCAGGTCTTTGTGGGGGCATGCGGGATGATCAGTCTTTATCATGGCGC	22564
KP025765	25861	tgccaggtctttgtggggcatgcgggatgatcagtctttatcatggcgc	25910
ENSOARG000000	22565	GCAGGATCTTTTCAGTTGTGGCCTGTGGGATCTGGGGCTTCCCTGGTGGC	22614
KP025765	25911	gcaggatcttttcagttgtggcctgtgggatctggggcttccctggtggc	25960
ENSOARG000000	22615	TCAGTGGTAGAGAGTCCACCTGCCAATGCGGGAGATCTGGGTTAGTCCC	22664
KP025765	25961	tcagtggtagagagtccacctgccaatgcgggagatctgggttcagtccc	26010
ENSOARG000000	22665	TGGGTCGGGAAGATCCCCTGGAGGAAGAAATGGCAACCCACTCCCGTGT	22714
KP025765	26011	tgggtcgggaagatcccctggaggaagaaatggcaaccactcccgtgtt	26060
ENSOARG000000	22715	CTTGCTTGAAAATCCCATGGACAGAACAGCCTTGAGGGATCCATGGGGT	22764
KP025765	26061	cttgcttgaaaatcccctggacagaacagccttgaggatccatgggggt	26110
ENSOARG000000	22765	CCCTCGAGAGTCCATGGGGTCGAAAAGACTTGACACAACCTGGCTGCT	22814
KP025765	26111	ccctcgagagtccatggggtcgaaaagacttgacacaacttggtgct	26160
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KP025765	26161	cagcaacaacatgtaggatctagttcttgaccaaggattgaaccgggt	26210
ENSOARG000000	22865	CCCCTGCATTGGGAGAGCAAAGTCTTAGCCCCTGGACCACCAGGAAGTCC	22914
KP025765	26211	cccctgcattgggagagcaaagtcttagccccctggaccaccaggaagtcc	26260
ENSOARG000000	22915	CCAAATGTCTCCACTTTGGATTTCCCAACAGAGCATTGGGGTTTGGTTG	22964

KP025765	26261	ccaaatgtctccactttggatttccaacagagcatttggggtttggtg	26310
ENSOARG000000	22965	GGGACGGTGAGGCCAGGTGGTGAGGGCACTCTTGGCTCTGGAGCCAGAC	23014
KP025765	26311	gggacggtgaggcccaggtggtgagggcactcttggctctggagccagac	26360
ENSOARG000000	23015	TCGCACAGATGCACGTGAATGCAGGACCTTTACTAACGGGTCAAGGTGAC	23064
KP025765	26361	tgcacagatgcacgtgaatgcaggaccttactaacgggtcaaggtgac	26410
ENSOARG000000	23065	ACGCGGCTGACTTGCCTTAGTGTCTCTGCCACTCAACTTAGCGATGA	23114
KP025765	26411	acgcggtgacttgcgtctagtgtgtctctgccactcaacttagcgatga	26460
ENSOARG000000	23115	ACCCCGTGGAGCCCTGGTGACACTTCTCTAAGCCAGTCACACCCGTCAGG	23164
KP025765	26461	accccgtggagcccctggtgacacttctctaagccagtcacacccgtcagg	26510
ENSOARG000000	23165	GCTTGGCCCGTGGCTGGGCATCAACAGTTGCTCGCTCCTTGCCTTGTTC	23214
KP025765	26511	gcttggcccgtggctgggcatcaacagttgctcgtccttgccttgttcc	26560
ENSOARG000000	23215	CCTGACCCCTGGGTGCAGTTCAAGGGCTGCGCGATGGTCCTGGGGCATCC	23264
KP025765	26561	cctgaccctgggtgcagtcaagggctgcgcatggtcctggggcatcc	26610
ENSOARG000000	23265	GAGACCAGGACCAGGCTGGAAGCTAGACGATCCCCCTGAGGCNNNNNNNN	23314
KP025765	26611	gagaccaggaccaggtggaagctagacgatccccctgaggc-----	26652
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ENSOARG000000	23365	NN--	23406
KP025765	26653	-----actctccc	26660
ENSOARG000000	23407	-----	23406
KP025765	26661	tgccccaggaccattgggccatgaagaaggtgctggtggacggcccca	26710
ENSOARG000000	23407	-----	23406
KP025765	26711	agaagcggacgctgctcatcgagaacctgcgagtgccagccataccgc	26760
ENSOARG000000	23407	-----	23406
KP025765	26761	tacacagtcaaggctcgcaacggggcaggctgggggcctgagcgggaggc	26810
ENSOARG000000	23407	-----	23406
KP025765	26811	catcatcaacctggccaccagcccaagcgacccatgtccagtgagcagg	26860
ENSOARG000000	23407	-----	23406
KP025765	26861	gggcagggaggcacagggtggacagggacgggcaggggcctgagatctgg	26910
ENSOARG000000	23407	-----	23406
KP025765	26911	gccctggctcacctccccccaccccgagtcctccatcatccctgacatc	26960
ENSOARG000000	23407	-----	23406
KP025765	26961	cccatcgtggacgccagagtggggaggactacgagagcttctcatgta	27010

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KP025765	27011	cagcgatgacgtgctccgctctccggccggcagccagaggcccagcgtct	27060
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KP025765	27061	ctgatgacaccggtgagtgggcccgggatcccggcgaggatggtgggggt	27110
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ENSOARG000000	23407	-----	23406
KP025765	27211	atcaacgatttgacgggcaccattctggctctgggtacaaaggacaaagc	27260
ENSOARG000000	23407	-----	23406
KP025765	27261	cgacatggctcataggactggtgtgcacgtctctgtgtgaggacagacag	27310
ENSOARG000000	23407	-----	23406
KP025765	27311	acagacatgggtttgggacacatgcacacgggctcgtgcacatgagactg	27360
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KP025765	27511	tggccctgctccacttccctcttgattcctgtacagtgtgatgcaaaga	27560
ENSOARG000000	23407	-----	23406
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ENSOARG000000	23407	-----	23406
KP025765	27611	acggcttccctttagctcagttggtaaagagtctgcctgcaatgcagga	27660
ENSOARG000000	23407	-----	23406
KP025765	27661	gacctgggttcaattcctgggttgaaagatcccctggagaaggaaatgg	27710
ENSOARG000000	23407	-----	23406
KP025765	27711	caaccactccagtattctggcctggagaaccccatggacagaggacct	27760
ENSOARG000000	23407	-----TCCATGGGGTCTATGGGGCAAGAGTTGGACAGGACTTA	23444
KP025765	27761	ggcaggccacagtccatggggtctatggggcaagagttggacaggactta	27810

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KP025765	27811	gtgactaaaccaccactgtgggaattcagatgaatcacatacatttctctg	27860
ENSOARG000000	23495	CCTCAGTTTTCTGATCTGTGAAATGGGATGCCAATCATACTAGGCTGAGT	23544
KP025765	27861	cctcagttttctgatctgtgaaatgggatgccaatcatactaggctgagt	27910
ENSOARG000000	23545	AAAAATCCAGCAGGATTTGTATTTCTTTTTATATAATTTATTTTCGGCT	23594
KP025765	27911	aaaaatccagcaggatTTgtatTTcTTTTatataatTTatTTtccggct	27960
ENSOARG000000	23595	GTGCTGGGTCTTCATTGCTATGCAGGCTTCTCATCCCAGTGGCTTCTCTT	23644
KP025765	27961	gtgctgggtcttctattgctatgcaggcttctcatcccggctgcttctctt	28010
ENSOARG000000	23645	ACTGTGGAGCAAGACGGGCTCTAGGGCTTAGTAGTTGCAACTCCTGGGCT	23694
KP025765	28011	actgtggagcaagacgggctctagggttagtagttgcaactcctgggct	28060
ENSOARG000000	23695	CTAGAGCAGTTACCCCGCGCATGCAGGATCTTCCCTGTTTCAGTTCAGTT	23744
KP025765	28061	ctagagcagttaccccgcgcatgcaggatcttccctgttcagttcagtt	28110
ENSOARG000000	23745	CAGTTTGGTTCGGTCACAGACCAGGGATCAAACCTGTTTTTCCCCATGG	23794
KP025765	28111	cagtttggttccgtcacagaccagggtcaaactgTTTTtccccatgg	28160
ENSOARG000000	23795	GGAGGTAGATTCTTTACCATTGAGCCATCAGGGAAGCCCCAGGATTTGTA	23844
KP025765	28161	ggaggtagattctttaccattgagccatcaggaagccccaggatttcta	28210
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KP025765	28211	ttttcatccttctttacctacatcaggcttccatggagtcaagctagggt	28260
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KP025765	28261	tcaggggtcttgagggttttgagggtctggagtagagagcagctggtatg	28310
ENSOARG000000	23945	AATCAGGTTCTCAGCTTGTCGGCACACAGATCTACTCCGCCCGCTG	23994
KP025765	28311	aatcaggttctcagcttgcggcaccacacagatctactccgcccgtg	28360
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KP025765	28361	gaacacgctgggaggcaggctggggagacatcactccctccctcatccat	28410
ENSOARG000000	24045	ACGGGATGCAGGCTCAGAGCAGAGGCCTCACGGCTCGCGGCACAGCCAGG	24094
KP025765	28411	acgggatgcaggctcagagcagaggcctcacggctcgcggcacagccagg	28460
ENSOARG000000	24095	GCTCTGGTCCAGAGGTCTTCCCTCGCCAGCTGCGGCCAGCCGCCCTC	24144
KP025765	28461	gctctggtccagagggtcttccctcgccagctgcgggccaggccgccctc	28510
ENSOARG000000	24145	TAACACCTC-----	24153
KP025765	28511	taacacctcggggctgagggtcccgcctgcccgggctcccgcaccgcc	28560
ENSOARG000000	24154	-----	24153
KP025765	28561	gcacaccagatcgcagtgccgggggaccaccggctttttctccgcgcc	28610
ENSOARG000000	24154	-----	24153

KP025765	28611	ctggcgccccctggcggtgccaacgcggcccttcgttgttcctaaggctg	28660
ENSOARG000000	24154	-----	24153
KP025765	28661	cggctggaagttcgagcccctgctgggggaggagctggacctgcggcgcg	28710
ENSOARG000000	24154	-----	24153
KP025765	28711	tcacgtggcggtgccccggagctcatcccgcgcctgtccgctggcagc	28760
ENSOARG000000	24154	-----	24153
KP025765	28761	cggcgctcctccgactccgggccccgggagacggcaccgccgatggggg	28810
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KP025765	28811	cgcgcgggcgccagcggggaggaggtgaccggcatgccccaccgca	28860
ENSOARG000000	24154	-----	24153
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ENSOARG000000	24154	-----	24153
KP025765	28911	tgacccagagccaggggacctcccagggcggggccgactgctggggct	28960
ENSOARG000000	24154	-----	24153
KP025765	28961	gcaaggccctggcgaaggtcgggtccgtgggggcctcctgccaggccagg	29010
ENSOARG000000	24154	-----TGTTCCAGAAGCCTGCGGGCGTTGGGGGGGCTGTGGACTCCTC	24196
KP025765	29011	 ggacctgtgttccagaagcctgcgggcgttgggggggctgtggactcctc	29060
ENSOARG000000	24197	CAGGGGCCTCTGTCCCTGGTGGGCAGAGGGAGGCTGGGTGTTTTGATGCC	24246
KP025765	29061	 caggggcctctgtccctggtgggcagagggaggctgggtgtttgatgcc	29110
ENSOARG000000	24247	AGGGGGCCCCGGTAGGTAGGTAACCCCTGGAActCCCAGGGCTGCAGCA	24296
KP025765	29111	 aggggg-ccccggtaggtaggtaacccctggaactcccagggtgcagca	29159
ENSOARG000000	24297	GCCCCCCCCTCGGGCTCCGGGTCTGCGGCCGGGCCTGTGGGAGTGACC	24346
KP025765	29160	 gccccccccctcggggctccggggtctgcggccgggcctgtgggagtacc	29209
ENSOARG000000	24347	CTGCCCTGTCCCCGAGACACCTGGTGAACGGGCGAATGGACTTTGCCT	24396
KP025765	29210	 ctgccctgtccccgagagcacctggtgaacgggccaatggactttgcct	29259
ENSOARG000000	24397	TCCCTGGCAGCGCAACTCCCTGCACAGGATGACCGTGAGCACCGCCGCC	24446
KP025765	29260	 tccctggcagcgccaactccctgcacaggatgaccgtgagcaccgccgcc	29309
ENSOARG000000	24447	CACGGCGCCCACCTGAGCCCGCAGCTGTCCCACCGCATGCTGAGCACCTC	24496
KP025765	29310	 cacggcgccccacctgagcccgcagctgtcccaccgcatgctgagcacctc	29359
ENSOARG000000	24497	GTCCACCCTCACGCGGGACTACCACTCGCTGACGCGCACGGAGCACTCGC	24546
KP025765	29360	 gtccaccctcacgcgggactaccactcgtgacgcgcacggagcactcgc	29409
ENSOARG000000	24547	ACTCCGCCACGCTGCCAGGGACTACTCCACCCTCACCTCCCTCTCCTCC	24596

KP025765	29410	actccgccacgctgcccagggactactccaccctcacctccctctcctcc	29459
ENSOARG000000	24597	CAGAGTGAGTGCCGCTCCTCCCTGGCCCTCCGGCCAGGCCCTCCCCCT	24646
KP025765	29460		29509
ENSOARG000000	24647	TCCCCCCCCCTGCGGCGTGACCAGGGCCTGTGTCCCACGCTGCCCCCG	24696
KP025765	29510		29558
ENSOARG000000	24697	TCCAACACGCACACCTGCCCCAGCTCACTCATGTTTTGTCTGCCCTAGG	24746
KP025765	29559		29608
ENSOARG000000	24747	CCTCCCTCCCATCTGGGAACACGGGAGGAGCAGGCTTCCATTGTCCTGGG	24796
KP025765	29609		29658
ENSOARG000000	24797	CCCTGGGGTCCCGGAGTCGGGCTCAGATGAACGGGGCCCCCGCTCCGAG	24846
KP025765	29659		29708
ENSOARG000000	24847	GACTCAAGAGACTCTATAATCCTGGCTGGGCAGCCAGCAGCGCCCTCGTG	24896
KP025765	29709		29758
ENSOARG000000	24897	GGGCCAGGTAGTACAGGGGTGGCCGTCTGCGTCTCCATGGCCTTCCAG	24946
KP025765	29759		29808
ENSOARG000000	24947	CTCCATGTCACCATCCTCCCACCATCAGCACTGCCACGCCTCCTCACCC	24996
KP025765	29809		29858
ENSOARG000000	24997	TCCATTCCATCCACATCCATGCTGGTGCCTAAAGCGGCTGTCCTCCTGCG	25046
KP025765	29859		29908
ENSOARG000000	25047	GTGCTGGGCTGGGGCTGGGGCAAGAGAGGGGCCAGCTGAGGGTGGGGGGC	25096
KP025765	29909		29958
ENSOARG000000	25097	CGGCCACTCAAGCGGAGCCTGCACCCACCTGAGTGTGGTGGGGAGGCACT	25146
KP025765	29959		30008
ENSOARG000000	25147	GGGCGGCTTAGAGAGGGTGCTGCAGGGCTGAGTGGGCTGCCCGCCAGCA	25196
KP025765	30009		30058
ENSOARG000000	25197	GTCAGGGAGGTGCGGCTGAGAACCAGGGACTCCTGCCAGACACCCCGC	25246
KP025765	30059		30108
ENSOARG000000	25247	TGGGGGCTGACTGTGGCCTCCCCATCTGCAGGCTCCCGCCTGGCTGCGG	25296
KP025765	30109		30158
ENSOARG000000	25297	GCG-----GCCGCCTGGTGTCTCCGCCCTCGGACCCACG	25331
KP025765	30159		30208
ENSOARG000000	25332	TCTCTGAAAGTGAGCTGGCAGGAGCCGAGTGTGAGCGTGCCTGCAGGG	25381
KP025765	30209		30258

ENSOARG000000	25382	CTACAGTGTGGAGTACCAGCTGCTGAACGGCGGTGAGGCCTGGCTGCTGG	25431
KP025765	30259	ctacagtgtggagtaccagctgctgaacggcggtgaggcctggctgctgg	30308
ENSOARG000000	25432	CGGGCTGACACACAGGGGCTCCGCGGGGC-----CCCCGCCGAGC	25472
KP025765	30309	cgggctgacacacaggggctc----gggctgtctggagcccag-cgagc	30353
ENSOARG000000	25473	CGCTTGACCACTGATGCCCCGCTGCCACCCCTGCCTCTCTGAGAGGGC	25522
KP025765	30354	cgcttgaccactgatgccccgctgccaccccctgcctctctgagagggc	30403
ENSOARG000000	25523	CTTTCCTTCCGAGCCCCCACTGTCCCCTTCACTGCGTCCACTCTTCCG	25572
KP025765	30404	ctttcccttccgagcccccaactgtccccttcaactgctccactcttccg	30453
ENSOARG000000	25573	CTGTATCCTCATCCGTCTCCCTGGGCTCGCTCCGTATCACTTCCCCGC	25622
KP025765	30454	ctgtatcctcatccgtctccctgggcctcgtccgtatcacttccccgc	30503
ENSOARG000000	25623	GAGGTTTTGCTTAGGGACCCAGGCCTCTCTGCTGGGCCTATGAGAAGTG	25672
KP025765	30504	gaggttttgcttagggaccaggcctctctgctgggcctatgagaagtg	30553
ENSOARG000000	25673	GCCCTTTTCTGGGCAGGCATGACCTGGGCCATAAACAGCTATCATACAC	25722
KP025765	30554	gcccttttctgggcaggcatgacctgggccataaacagctatcatcac	30603
ENSOARG000000	25723	AGATGAGATTTTCAATTCCACTCCTTGTCTAGTGCACAACCTGAACCACC	25772
KP025765	30604	agatgagattttcagattccactccttgtctagtgcacaacctgaaccacc	30653
ENSOARG000000	25773	AACCACACCACACAAGGCCGCCCCACCTGTACCCCAACCACAGCC----	25818
KP025765	30654	aaccacaccacacaaggccgccccacctgtacccaaccacagccggtc	30703
ENSOARG000000	25819	--GGCGGGGGGAGGACCAGGTCTGGGCTGTGGCCTAGGGGAGGGGCGGGA	25866
		.	
KP025765	30704	ctggctgggggaggaccaggtctgggctgtggcctaggggaggggcgggga	30753
ENSOARG000000	25867	TCAAGCCGGGGCTAGGGATGAGGAATGAGGCTGCTCTGCTGTCTGCCCC	25916
KP025765	30754	tcaagccggggctagggatgaggaatgaggctgctctgctgtctgcccc	30803
ENSOARG000000	25917	GTCGCCACCCAGGTGAGCTGCATCGCCTCAACATCCCCAGCCCCAGCCA	25966
KP025765	30804	gtcgcccaccaggtgagctgcatcgcctcaacatccccagccccagcca	30853
ENSOARG000000	25967	GACCTCGGTGGTGGTGGAGGACCTCCTGCCCAACCACTCGTATGTGTCC	26016
KP025765	30854	gacctcggtggtggtggaggacctcctgccaaccactcgtatgtgttcc	30903
ENSOARG000000	26017	GCGTGCGGGCCAGAGCCAGGAGGGCTGGGGCCAGAGCGGAGGGTGTC	26066
KP025765	30904	gcgtgcgggcccagagccaggagggctggggcccagagcgcgaggggtgtc	30953
ENSOARG000000	26067	ATCACCATTGAGTCCCAGGTGCACCCGAGAGCCCGCTCTGCCCCCTGCC	26116
KP025765	30954	atcaccattgagtcccaggtgcacccgagagcccgtctgccccctgcc	31003
ENSOARG000000	26117	GGGTGAGTTGCCACCCCAACCCGCGGGTGCCCTGCCTGGCCCTCAGG	26166
KP025765	31004	gggtgagttgccacccccacaccgcggtgcccctgcctggccctcagg	31053

ENSOARG000000	26167	TACCCACCTGTCCCCTGACAAGCTTCCTCGACTGCCCCCAGGCTCCGCCT	26216
KP025765	31054	taccacactgtcccctgacaagcttcctcgactgccccca-gctccgcct	31102
ENSOARG000000	26217	TCACTTTGAGCACACCCAGTGCCCCGGGCCACTGGTGTTCACTGCCCTG	26266
KP025765	31103	tcactttgagcacaccagtgccccgggcccactggtgttactgccctg	31152
ENSOARG000000	26267	AGCCCCGACTCACTGCAGCTGAGCTGGGAGCGGCCCGCAGGCCGGATGG	26316
KP025765	31153	agccccgactcactgcagctgagctgggagcggccccgcaggccgatgg	31202
ENSOARG000000	26317	CGACATTCTGGGCTACCTGGTGACGTGTGAGATGGCCATGGAGGAGGTG	26366
KP025765	31203	cgacattctgggctacctggtgacgtgtgagatggccatggaggaggtg	31252
ENSOARG000000	26367	CTGCCACCCCGGTTGGGGGCGGGGGGGGGGGGG--GGGAGCCGC	26414
KP025765	31253	ctgcccacccgggttggggggcgggggggggtgtggacaggagccgc	31302
ENSOARG000000	26415	AGAGGCTGAAAGGCATCTTCCCTGCCAGAGCCAGCCACCACGTTCCCTGG	26464
KP025765	31303	agaggctgaaagcatcttccctgcccagagccagccaccacgttcctgg	31352
ENSOARG000000	26465	TTGACGGCGACAGCCCCGAGAGCCGGCTGACCGTGCCCGCCTCAGCGAG	26514
KP025765	31353	ttgacggcgacagccccgagagccggctgaccgtgcccggcctcagcgag	31402
ENSOARG000000	26515	AACGTGCCCTACAAGTTCAAGGTGCAGGCAAAGACCACCAAGGCTTCGG	26564
KP025765	31403	aacgtgccctacaagttcaaggtgcaggcaaagaccaccaaggcttcgg	31452
ENSOARG000000	26565	GCCGGAGCGTGAAGGAATCATCACCATCGAGTCCCAGGATGGAGGCAGGC	26614
KP025765	31453	gccggagcgtgaaggaatcatcaccatcgagtcccaggatggaggcaggc	31502
ENSOARG000000	26615	TTCTTTGCCCTTCCCCAGCCCTGCCCTTCTCTGGCCACACCTTCTCCT	26664
KP025765	31503	ttctttgccccttccccagccctgccccttctctggccacaccttctct	31552
ENSOARG000000	26665	GGCACCATCTCTCCCTGCGCCCC-----GGACCCTTCCC	26700
KP025765	31553	ggcaccatcctctaactgcgccccaccaccctctccaggaccctccc	31602
ENSOARG000000	26701	ACAGCTGGGCGGCCACTTGGGACTCTTCCAGCACCCAGCATCAGGGGAAT	26750
KP025765	31603	acagctgggcggccacttgggactcttccagcaccagcatcaggggaat	31652
ENSOARG000000	26751	ACAGCAGCATCACCACCCACTCCAGCACCACTGAGCCCTTCTACTGGGT	26800
KP025765	31653	acagcagcatcaccaccactccagcaccactgagcccttctactgggt	31702
ENSOARG000000	26801	GAGTTGCCAGTGGGGCCCCCTGGCTCTTCCCAGGAAACACAGAGCTAAC	26850
KP025765	31703	gagttgcccagtggggccccctggctcttcccaggaaacacagagctaac	31752
ENSOARG000000	26851	AGAGGAAGGGGTGAGGC-----GGGGGGGGGACAGGCAGGACCCAG	26894
KP025765	31753	agaggaaggggtcagggcgggggggggggacagtccaggaccaggggta	31802
ENSOARG000000	26895	-----TCTTCCCCTGCAGATGGACTGACCCTGGGCTCCCAG	26930
KP025765	31803	ggtccttcaacgcttcttcccctgcagatggactgaccctgggctcccag	31852
ENSOARG000000	26931	CACCTGGAAGCAAGTGGCTCCCTCACCCGGCATGTGACACAGGAGTTTGT	26980

KP025765	31853	cacctggaagcaagtggctccctcaccggcatgtgacacaggagtgtgt	31902
ENSOARG000000	26981	GAGCCGGACGCTGACCACCAGTGGGACCTCAGCACCCACGTGGACCAAC	27030
KP025765	31903	gagccggacgctgaccaccagtgggaccctcagcaccacgtggaccaac	31952
ENSOARG000000	27031	AGTTCTTCCAGACCTGAGCTCCCCAACCTACACACACACCCCGCTCCA	27080
KP025765	31953	agttcttccagacctgagctccccaaccctacacacacacccccgctcca	32002
ENSOARG000000	27081	CCCCAACCCAGGCGCTGCCTCAGCTACTCCATCCTTGGACTCCTGGTGG	27130
KP025765	32003	ccccaaccccaggcgtgcctcagctactccatccttggactcctggtgg	32052
ENSOARG000000	27131	CCTGGCCCAGCCACATGCTGATCACAAGGCCGCTGCCTCTGGCCACAGTG	27180
KP025765	32053	cctggcccagccacatgctgatcacaaggccgctgcctctggccacagtg	32102
ENSOARG000000	27181	CAGGGGCTCAGTGTCTCTGGACGGCATGGAGGGGGCAGAGTCCCGGAA	27230
KP025765	32103	caggggctcagtgctcctctggacggcatggagggggcagaggtcccggaa	32152
ENSOARG000000	27231	GGCCCTTCTGGCTGCCCCCCTGCCCCGGCCCCAGCCCCTTTGTAACCA	27280
KP025765	32153	ggcccttctggctgccccctgccccggccccagccccctttgtaacca	32202
ENSOARG000000	27281	AAGAGCTGGACCCAGCATGGCAAGGGCTTGGCTTTGTTCTGCACTATAAT	27330
KP025765	32203	aagagctggaccagcatggcaagggcttggctttgttctgactataat	32252
ENSOARG000000	27331	AAAGGATTTGCTACTGCTTGCTCTGCCCTGACCGTGTCTCTAGGCCCT	27380
KP025765	32253	aaaggatttcgctactgcttggctctgccctgaccgtgtctctaggccct	32302
ENSOARG000000	27381	GTCCAGAGCAGGGAGTGGTTCTCACACCCCCCTTTTCTGATGCCCCAGCA	27430
KP025765	32303	gtccagagcagggagtgttctcacaccccccttttctgatgccccagca	32352
ENSOARG000000	27431	CACATACACCTCTTGAAGCAGGCAGGCATCAGAGTCAGATACAAGTTTAT	27480
KP025765	32353	cacatacacctcttgaggcaggcaggcatcagagtcagatacaagtttat	32402
ENSOARG000000	27481	TGAGCACCCAGACAGGAGGGAGGCCCGCCGTGTGCTGTCCCGCGATGG	27530
KP025765	32403	tgagcaccagacaggagggaggccccgctgtgctgtccccggcgatgg	32452
ENSOARG000000	27531	CCTCATAAGCGCAGCACCTTGCGCCGTCAGCCGCCTGGGAGAGGTAGAA	27580
KP025765	32453	cctcataagcgcagcaccttggcgccgtcagccgcctgggagaggtagaa	32502
ENSOARG000000	27581	GGTGGCGGTCCCATGGTACTGCTCCTGCCGGGGATGGGGGTCTGAGCT	27630
KP025765	32503	ggtggcggtcccatggtactgctcctgccggggatgggggtctgagct	32552
ENSOARG000000	27631	CGGGGGGCCCTGGGAGC-----	27647
KP025765	32553	cggggggccctgggagcccatccctcctgctcccttgcctccccctccc	32602
ENSOARG000000	27648	-----	27647
KP025765	32603	tcgactccagcactgccaacctggatgtgctgcatcaccgaggagcggc	32652
ENSOARG000000	27648	-----	27647

KP025765 32653 ggaggcctccagcagggtcaccgtgcagccccaaagccaccgcccgtca 32702
ENSOARG000000 27648 ----- 27647
KP025765 32703 tgcggctgccataaaccggcgaggagcgcggcctccaccagctga 32752
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KP025765 32803 agcctggagccagccccagctgcaacacgtgtgct 32837

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