

	3310	3320	3330	3340	3350	3360	3370	3380	3390	3400	3410
1 Cattle	attgatatgg	agggtgttgt	tcgttttttc	taaaaatga-	tctt-agtaa	cttttttttc	ttattcattt	atagctgac	ttctaacgca	agtggaagga	aaacccaaat
2 Cattle2	attgatatgg	agggtgtcgt	tcatttttca	taaaaatga-	tctt-agtaa	ctttttttct	t-attcattt	atagctgac	ttctaacgca	agtggaagga	aaacccaaat
3 Chicken	aaaaaaattg	gggttatatat	gcatttttct	ttttgttccc	tgttcagtaa	tttgttcttt	ccattcattt	atagctgatt	ttcttgta	aatggaggga	aaacccaaat
4 Human	-----	-----	-----	-----	-----	-----	-----	-----	ttctaatgca	agtggatgga	aaacccaaat
5 Catfish	atttaa----	----gtatat	acatatatca	taaaaat---	----catta-	-----	----tgatct	ataccgg---	--ctaa--ca	actattttta	taatcac---
6 Bream	-----	-----	-----	-----	-----	-----	-----	---gccg---	-----	-----ggg---	-----
7 Pig_mRNA	aa-----	-----	-----	-----	-----	-----	-----	-----	-----	-----gga	aaacccaaat
	3420	3430	3440	3450	3460	3470	3480	3490	3500	3510	3520
1 Cattle	gttgcttctt	taaatttagc	tctaagatac	aatacaataa	actagtaaag	gcccaactgt	ggatatact	gaggcctgtc	aagactcctg	cgacagtgtt	tgtgcaaatc
2 Cattle2	gttgcttctt	taaatttagc	tctaagatac	aatacaataa	actagtaaag	gcccaactgt	ggatatact	gaggcctgtc	aagactcctg	cgacagtgtt	tgtgcaaatc
3 Chicken	gttgcttctt	taagtttagc	tctaaaatac	aatataacaa	agttagaaag	gcacaattat	ggatatactt	gaggcaagtc	caaaaaacct	caacgggtgtt	tgtgcagatc
4 Human	gttgcttctt	taaatttagc	tctaaaatac	aatacaataa	agttagaaag	gcccaactat	ggatatactt	gagaccgtc	gagactccta	caacagtgtt	tgtgcaaatc
5 Catfish	-ttgaccctt	taa----acc	tttta-atcc	act-----	-ct-----g	ccacacttgc	agttatgctt	gtgctttgta	catattcctt	cta----ggt	----c----tc
6 Bream	-----tcg-	-----gc	tc-----	-----	-gtggcaaag	-----	---tata-	ga----cgtc	aa-----a	caa--gtgtt	-----c
7 Pig_mRNA	gctgcttctt	taaatttagc	tctaaaatac	aatacaataa	agttagaaag	gcccaactgt	ggatatact	gagaccctgc	aagactccta	caacagtgtt	tgtgcaaatc
	3530	3540	3550	3560	3570	3580	3590	3600	3610	3620	3630
1 Cattle	ctgagactca	tcaaaccat	gaagacggt	acaaggata	ctggaatccg	atctctgaaa	cttgacatga	accaggcac	tggatttgg	cagagcattg	atgtgaagac
2 Cattle2	ctgagactca	tcaaaccat	gaagacggt	acaaggata	ctggaatccg	atctctgaaa	cttgacatga	accaggcac	tggatttgg	cagagcattg	atgtgaagac
3 Chicken	ctgagactca	ttaagccat	gaagacggt	acaagata	ctggaatccg	atctttgaaa	cttgacatga	accaggcac	tggatctgg	cagagcattg	atgtgaagac
4 Human	ctgagactca	tcaaacctat	gaagacggt	acaaggata	ctggaatccg	atctctgaaa	cttgacatga	accaggcac	tggatttgg	cagagcattg	atgtgaagac
5 Catfish	ctaag---ct	tta---cttt	tatacacaat	tc---t-ta	ttg--at---	atgttt---a	tttctc-tgt	g-----	ttttttttt	tcttttttt	ttatgaagtc
6 Bream	---gag---	-----	-----	-----	-----cg	-----	-----	-----	-----	-----	-tgtg-----
7 Pig_mRNA	ctgagactca	tcaaaccat	gaagacggt	acaaggata	ctggaatccg	atctctgaaa	cttgacatga	accaggcac	tggatttgg	cagagcattg	atgtgaagac
	3640	3650	3660	3670	3680	3690	3700	3710	3720	3730	3740
1 Cattle	agtgttgca	agctggctca	aacaacctga	atccaactta	ggcattgaaa	tcaaagcttt	agatgagaat	ggccatgac	ttgctgtaac	cttcccagaa	ccaggagaag
2 Cattle2	agtgttgca	aactggctca	aacaacctga	atccaactta	ggcattgaaa	tcaaagcttt	agatgagaat	ggccatgac	ttgctgtaac	cttcccagaa	ccaggagaag
3 Chicken	agtgttgcaa	aattggctca	aacagcctga	atccaactta	ggcatcgaaa	taaaagcttt	tgatgagact	ggacgagac	ttgctgtcac	attcccagga	ccgggtgaag
4 Human	agtgttgcaa	aattggctca	aacaacctga	atccaactta	ggcattgaaa	taaaagcttt	agatgagaat	ggcatgac	ttgctgtaac	cttcccagga	ccaggagaag
5 Catfish	tgtcttgtaa	tctcagc-ca	--cagc-tga	ctg-----ta	ggaa--gaaa	-aaaagaaa	agaa-agaa-	----aaaata	-----aac	a----caaaa	c---gt-aac
6 Bream	---gctgc--	----ggc---	---agccgga	gaccaactgg	ggcatccaga	ttaacgcctt	cgattcgagg	ggaaatgact	tggccgtgac	ctccgaggag	cctggagagg
7 Pig_mRNA	agtgttgcaa	aattggctca	aacaacctga	atccaactta	ggcattgaaa	tcaaagcttt	agatgagaat	ggcatgac	ttgctgtaac	cttcccagga	ccaggagaag
	3750	3760	3770	3780	3790	3800	3810	3820	3830	3840	3850
1 Cattle	atggactggt	aag-tgatta	ctgaaaataa	catgctaaaa	accttggtat	gtgtttat--	-----tc	ataatgtgaa	t-----	-gaatagtag	-tgaaaaata
2 Cattle2	atggactggt	aag-tgatta	ctgaaaataa	catgctaaaa	accttggtat	gtgtttat--	-----tc	ataatgtgaa	t-----	-gaatagtag	-tgaaaaata
3 Chicken	atggattggt	aagttcatta	ga-aaaatct	catttaata	tcattggaaa	gggattatgt	ttaaaggata	aaaatggaaa	tattgcttcg	agaatggcag	atgaaggttc
4 Human	atgggctg--	-----aat	-----	-----	-----	-----	-----	-----	-----	-----	-----
5 Catfish	actgttttac	aatct-----	-----atcca	caaacaaaag	acc-----aac	gtg-----	---aag--a	acaagttaa	aagt--ttcg	cca-----	-tga-----
6 Bream	acggattggt	gagctg---a	ga-c-----	---tttat-tc	acatt--aaa	gtga-----	-----a	caaa-----	-----ctacg	ag-----	-----
7 Pig_mRNA	atgg-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	3860	3870	3880	3890	3900	3910	3920	3930	3940	3950	3960
1 Cattle	acta---cca	gtt---tc-c	tgt-gcttat	aagcca--ga	caaaggtgcc	ttacc--cca	gtggtagccc	tgtacccaat	-aaaagt--a	ggtgtcccat	ttcacatcct
2 Cattle2	acta---cca	gtt---tc-c	tgt-gcttat	aagcca--ga	caaaggtgcc	ttacc--cca	gtggtagccc	tgtactcaat	-aaaagt--a	ggtgtcccat	ttcacatcct
3 Chicken	catataccca	gttctttcac	tcttggttct	caaataatga	gaaaatcaact	tcgcattcct	gtgcctccat	ttttctggtt	gaaaaataa	gatgacctca	ggctcatggt
4 Human	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5 Catfish	gctcttacgg	gtt-tttcag	a-tcggatct	-----ga	cgacggcggc	gt-ccgacgt	ctggcaga--	-gttctaaca	gaaatgtgt	ggaga-----	-----
6 Bream	-----	-----	-----	-----	-----	-----	-----	-----t	gaaaa-----	-----	-----ca-----
7 Pig_mRNA	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----