

	1330	1340	1350	1360	1370	1380	1390	1400	1410	1420	1430
1 Cattle	aaaccgatct	atTT-tcagg	ctcttttaac	aagctgctgg	cttgtagtga	a-ggaggagg	ggaa-agagc	ttttttcaag	atTtcatgag	aaatagacca	atgaga---c
2 Cattle2	aaaccgatct	atTT-tcagg	ctcttttaac	aagctgctgg	cttgtagtga	a-ggaggagg	ggaa-agagc	ttttttcaag	atTtcatgag	aaatagacca	atgaga---c
3 Chicken	cctcacaact	ccttctcagg	ctctcccaac	aggctgctgg	ctggagtctg	cggaggggag	ggaggagagt	gtatttctaa	aggatttgag	tcaggttaa	atgaccgtgc
4 Human											
5 Catfish	tagtggagcg	gt-----agt	gtaatgtagt	--ggagttgg	-tagtg-gtt	acggtggtag	tg--gagcg-	gtagtgtaa	tgtagtggag	tggtagtga	atgtaggtgg
6 Bream				-----tgatgg						-----cca	ctgaaacgtg-
7 Pig_mRNA											
	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540
1 Cattle	tgaagc---	--tgctactt	t--atTtgTt	----tcctta	ga--gagcta	aaaagcta--	aaaatcaaaa	atg----aaa	tgcttgc-at	agcattcat-	gttatatagt
2 Cattle2	tgaagc---	--tgctactt	t--atTtgTt	----tcctta	ga--gagcta	aaaagcta--	aaaatcaaaa	atg----aaa	tgcttgc-at	agcattcat-	gttatatagt
3 Chicken	tgcaagcctt	tgTtttactg	TtcatttgTt	cggctccttg	taacgtgtgt	gcctctgtagc	acacttaaga	ttttgccaat	tgctttagaa	agcaaaagga	gatccgcagt
4 Human											
5 Catfish	t---ag----	--tggtA--g	tggagt-ggt	ag-----tg	taatgtagtg	gagtggtag-	-----	tggt----ag	tggtagtgg-	agcggtaggt	gtaatgtagt
6 Bream	----ag--tt	ttttt-----	---atTt---	cg---ctt-	-----tgTtt	g-----	--act--ga	t-----		---aaaagtg	gaagcgc---
7 Pig_mRNA											
	1550	1560	1570	1580	1590	1600	1610	1620	1630	1640	1650
1 Cattle	ttagtatgac	aactataaca	tgTttatgTt	tt--cacagc	ttaatgc--	taccaaggta	aaggattggg	agacagtatc	agcaatgtga	aaaatttaca	tcaaatttcc
2 Cattle2	ttagtatgac	aactataaca	tgTttatgTt	ttt-cacagc	ttaatgc--	taccaaggta	aaggattggg	agacagtatc	agcaatgtga	aaaatt-aca	tcaaatttcc
3 Chicken	tcagt-tggc	t-ctgttatt	tgccggcattc	agggcattcc	ctattgcaga	tagaaatgca	agtgcagcta	ataagataac	tgTgttttc	tgcatg-aca	ttccacctgc
4 Human											
5 Catfish	ggag--tgg-	tagtgtaa--	tgtagtggta	gtgg-----	-tagtggag-	tggtagtgta	a-tgtagtgg	agt-ggtag-	tggtagtggta	g---tgta--	----atgtag
6 Bream			-gcggacgtc	-----tcc	a-----	---aaatg--	-g-gc----		-----ttta	cgcacg----	-----c
7 Pig_mRNA											
	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760
1 Cattle	taat-tgcat	ttggTtgccT	gaaatAtgca	tttaaa----	--ataacagg	gtgtTgtTtt	ttt---ttt	tttttcatta	ataaaagaga	aaggaagaaa	tctgtagagg
2 Cattle2	taat-tgcat	ttggTtgccT	gaaatAtgca	tttaaa----	--ataacagg	gtgtTgtTtt	ttttttttt	tgTttcatta	ataaaagaga	aaggaagaaa	tctgtagagg
3 Chicken	tgatgtgctt	aagagcaata	gaaacgagta	gaaatacagc	ttagagcagg	gacccgctaa	actacagcgt	-gttacagca	agtgtAagca	tagagttaa	tccttgcttc
4 Human											
5 Catfish	tggagtgg--	tagtgtagtg	gtagtgtaat	gtagtgtag-	-tggagaaag	ttgtgggtct	gtctctttaa	ggTttcagcg	ctggaaaggg	aggaaaaaaa	tccgga----
6 Bream	-ga--gc--	-agagcy---	g--acgggka	gg-----	-----gg	gac--gcta-	--taaa----	-----cagc-	-----	-----	--ctttattc
7 Pig_mRNA	tgat-----										-----cttc
	1770	1780	1790	1800	1810	1820	1830	1840	1850	1860	1870
1 Cattle	t-tgaagcct	atTtgggcgt	Ttgctgaaca	cttagaa-tg	acttctgt-t	attcaaaact	-atTt-ctca	ta--gggttt	ttagTt---	--cttcacag	agtatctaata
2 Cattle2	t-tgaagcct	atTtgggcgt	Ttgctgaaca	cttagaa-tg	acttctgt-t	attcaaaact	-atTttctca	ta--gggttt	ttagTt----	gtcttcacag	agtatctaata
3 Chicken	tctgctgac	ccatgagcca	gcaccaccca	cctctaagTt	aaaactatgt	atttaaagca	gatctaagtg	taacagatt	aaatgctaaa	gtgtccacat	tatagc-aat
4 Human										-----cag	agt-----
5 Catfish	-ctgaagtcc	acct-----	---ctg--a	tttatt-gtt	gct-ccgagt	agccaa----	-----tca	ta--gatt	cgacgccaga	g-----	----cctaa-
6 Bream	t-----gaca	acatg---ca	gc-----	-ctct-----	-----c-			---cgggttt	taat-----	-----at	ta-----
7 Pig_mRNA	t-----							---aatgc---			
	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980
1 Cattle	ttgaaagct	attagagtgg	a--aaggata	aaagaatatt	cttaataaac	ttaatgta--	ttag--taag	agcaataagg	aagtaa-aca	cagcataatg	aaaaatcatg
2 Cattle2	ttgaaagct	attagagtgg	a--aaggata	aaagaatatt	cttaataaac	ttaatgta--	ttag--taag	agcaataagg	aagtaa-aca	cagcataatg	aaaaatcatg
3 Chicken	cagctccagt	agtcgtgcca	aggaagaatg	aaggcattta	ctgaatgagc	agattctaag	ttatcttctt	agtgctaaac	atctgctacg	gctccta-tc	aagtatcttt
4 Human											
5 Catfish		ataagagcgg	cggaaataat-	-----ttgg	cggtataaa-	-----aag	---gcttttg	ggcga-attg	aagcatgaca	tctcgcgt-	acctgtccgg
6 Bream	-----ccagt	----gtg---	--gatgtcgg	aa--catt--	---at-ag-	agatt----	-----	-----taaa-			
7 Pig_mRNA			---aag---								