

	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080	2090
1 Cattle	-----agcta	at-cagcaga	-----aaatt	-ct--aagaa	ataaac-att	ttaattacaa	agttccactt	ataccctgac	-catggtact	at--tgttga	ga--gtacct
2 Cattle2	-----agcta	at-cagcaga	-----aaatt	-ct--aagaa	ataaac-att	ttaattacaa	agttccactt	ataccctgac	-catggtact	at--tgttga	ga--gtacct
3 Chicken	tgcacagcta	atactatagt	atctcatggt	-cttcatcag	ctaaagtatt	tggtctctgc	agctgttttt	ttaaa-taac	acttaagaat	atgatgtcga	aaaggaaaaa
4 Human											
5 Catfish	tgtgcatggc	gcacgggt-gt	tctgtttact	gctgccacac	agaaaaacac-	--aacgcgcg	-gc-gcactc	ct-ctctgag	acctg--acc	-tg--gctga	-----t
6 Bream	---acagttt	at---tagt	g-----gt-	-----	----gtatt	t-----tgtc	ag-----	-----	actt-----	----tgtgg-	-----
7 Pig_mRNA											
	2100	2110	2120	2130	2140	2150	2160	2170	2180	2190	2200
1 Cattle	g--gtctgca	catatctagg	agg----cac	atgc-----t	ta--ata-ac	cttctaaaat	attat-----	--tttattc-	-ctcata-gg	agggagaact	a----ttacc
2 Cattle2	g--gtctgca	catatctagg	agg----cac	atgc-----t	ta--ata-ac	cttctaaaat	attat-----	--tgtattc-	-ctcata-gg	agggagaact	a----ttacc
3 Chicken	gatgtcagga	catataaggc	agggttagcag	ttacagatat	tacaatacat	gtgctagaat	aatatcagct	cctgcagcca	gctaaaatgg	acaaaaaat	taactttacc
4 Human											
5 Catfish	catg-----	catttagcgc	agggt-----	---ctgattt	cgc-----t	gggct----t	cgtggtggc-	-gttcggtcc	gatggcgcg	actgacaccg	gagc---acc
6 Bream	--tg-----	---rtwacgc	a-----ca-	---cggat--	---c-----	gtg--agggt	-----t	cgtg---tca	g-----gg	a-----	-----
7 Pig_mRNA											
	2210	2220	2230	2240	2250	2260	2270	2280	2290	2300	2310
1 Cattle	tata---tgt	agtacc----	-tatgttggt	t-ctgaaaga	taata---tg	tttcatatat	ttc-----t	gtt-gcagt-	cagttcaaac	ctatactcaa	ggaaagggag
2 Cattle2	tata---tgt	agta-cct--	at--gttggt	t-ctgaaaga	taata---tg	tttcatatat	ttc-----t	gtt-gcagt-	cagttcaaac	ctatactcaa	ggaaagggag
3 Chicken	tttaaccttt	tttaacctca	ataagatgca	tacttaatgg	caatacatta	ttgcagcctt	atcacaaact	gtcagcagtt	ctattccagc	ctattgtgcc	caagatttc-
4 Human											
5 Catfish	g--gagcagc	agcagcagca	gcaacctacc	gcggtgacgg	-aggagcgcg	aggcgccagt	ttcag---cg	gccagc-gc-	--gtgcg---	ctttccgcc	gcacag----
6 Bream	-----tt	ttta-----	-----	-----	-----	-----	-----t	gtcag-----	-----gc	----tgt---	-aa-atttc-
7 Pig_mRNA											
	2320	2330	2340	2350	2360	2370	2380	2390	2400	2410	2420
1 Cattle	acaggcacct	caacagagaa	ggca--tgac	cagaaagagt	tttgtgccat	gtgtctgcga	tcttgcttta	tacagggctc	tacccacttt	aaactggact	caaaacagtt
2 Cattle2	acaggcacct	caacagagaa	ggca--tgac	cagaaagagt	tttgtgccat	gtgtctgcga	tcttgcttta	tacagggctc	tacccacttt	aaactggact	caaaacagtt
3 Chicken	aaaactactt	taattaaatc	tccatataat	cacaacgact	ggagaaaagt	cattacgctt	tattgctcta	tttcttctt	t----ttat	aaaaagcctt	tgaattacta
4 Human											
5 Catfish	-caagcagct	ccgtctgcaa	gccatcaagt	ccca--ga-t	tctgagcaaa	ctg--cgc--	-----ctcaa	acaag--ct-	--cccaacgt	gagccg----	cgatgtgg--
6 Bream	aa-----	-----tc	gc-acatggt	ca-----	-----acagt	-----tt	tct--ctctc	tctcgttct-	-----	-----gca--	-----
7 Pig_mRNA											
	2430	2440	2450	2460	2470	2480	2490	2500	2510	2520	2530
1 Cattle	tcaaaatact	gctttttc--	ttat--taag	taa-ctagtt	tataag-gca	acaaataaat	ttcctttaag	actg-tgcta	tcagata-at	cctggaa---	---tagattt
2 Cattle2	tcaaaatact	gctttttc--	ttat--taag	taa-ctagtt	tataag-gca	acaaataaat	ttcctttaag	actg-tgcta	tcagata-at	cctggaa---	---tagattt
3 Chicken	taaatatgct	gaagaggcag	ttatcttaag	ccatctgatt	tatgagtgtc	aaagatctgt	accatttaag	atgggtatta	tctgttttat	cctggcatgg	agatagacta
4 Human											
5 Catfish	tcaa--gca	gttgctcccg	aaagc---g	ccaccg----	----gtgca	gcagctgtc	gacctgtacg	ac--gtgct-	-----	-cggggacga	cg-----
6 Bream	-----gct	ga---gc--	-----	cgcgc-----	-----	-----gt	-cca-----	--gg-----	-----	--tgg-acgg	gga-----
7 Pig_mRNA											
	2540	2550	2560	2570	2580	2590	2600	2610	2620	2630	2640
1 Cattle	gccttact--	-tataaa---	--caatcttg	ag--aaaaca	aaaaggcaag	aa--attgct	aagtgccttct	gctt--acaa	tgacagcctg	gccctaaa--	----gacaat
2 Cattle2	gccttact--	-tataaa---	--caatcttg	ag--aaaaca	aaaaggcaag	aa--attgct	aagtgccttct	gct-ta-caa	tgacagcctg	gccctaaa--	----gacaat
3 Chicken	tcatgactag	gtaggacagc	tgcatatatag	ggctacagga	aagagggaatg	cagcaactgc-	acgtgacttt	gctataacca	tggtgaaatg	aaaacaaaatc	ttcagataag
4 Human											
5 Catfish	gcaagccg-g	gcacagc-gc	tccaggac-g	agg--agga	ggacgacgag	gagcac-gcc	a---ccacc	gagaccgta	tg--agcatg	gcccgcgagc	gtgagtc--c
6 Bream	----gcccag	gt-----gc	tgcttttt--	--ctcc----	-----	-----	-----	-----	-----	-----	ttca-----
7 Pig_mRNA											