

	5290	5300	5310	5320	5330	5340	5350	5360	5370	5380	5390
1 Cattle	---tgtagtt	taaatatc--	tgaatggaaa	c-atTTTTta	gtgaaagaat	aaa--gggaa	tatcattgta	tcttcttctg	agtctgtgcc	tctctctctt	ggagtt--ag
2 Cattle2	---tgtagtt	taaatatc--	tgaatggaaa	c-actTTTTta	gtgaaagaat	aaa--gggaa	tatcattgta	tcttcttctg	agtctgtgcc	tctctctctt	ggagtt--ag
3 Chicken	agctgtccct	tcaaagtcag	tgcaagcgaat	ccagccatct	gtgcaagtag	gagctgtgaa	gtggaa-gta	acctgcactg	-gcaggtgaa	acattcattt	ctaccaccac
4 Human											
5 Catfish	-gctg-----	--aagatc--	-gaogtggac	gcaggagtc	gtt-----	---cgtggca	gagcatcg--	acgtga----	agcaggtgct	tg-cggtgtg	gctgaggcag
6 Bream					-----g	gggc-----					
7 Pig_mRNA											
	5400	5410	5420	5430	5440	5450	5460	5470	5480	5490	5500
1 Cattle	tctttccaac	ccta--tata	c-ttaccact	atcttcatcc	ctcta-----	----ccttcc	ttttt-ccca	ttacatct--	gtgcagtac-	--tgg---g	tggcaactat
2 Cattle2	tctttccaac	ccta--tata	cattaccact	atcttcatcc	ctcta-----	----ccttcc	ttttt-ccca	ttacatct--	gtgcagtac-	--tgg---g	tggcaactat
3 Chicken	tccaccaaac	tctaattaga	gagattccct	gtcctccttg	gtctggagga	gaagccttcc	ctgataccca	gaaaatccta	gtaaaatacc	tttgaatag	tgggaatttc
4 Human											
5 Catfish	ccg---gaaa	ccaactgggg	gattgagatc	aacg-cgttc	gactccaaaa	gcaacgatc-	----tcgcga	tcacttc---	-tgcggagcc	t--ggagaag	agggg-----
6 Bream		--aattaga							-----atacc		
7 Pig_mRNA											
	5510	5520	5530	5540	5550	5560	5570	5580	5590	5600	5610
1 Cattle	tggttttcgg	tgtaaac---	atccaagttt	ccctgaataa	gaccaagtga	atg-----	-----gagg	atg--aa--t	gagtatac--	-ctatcc--c	tccaggagtc
2 Cattle2	tggttttcgg	tgtaaat---	atccaagttt	ccctgaataa	gaccaagtga	atg-----	-----gagg	atg--aa--t	gagtatac--	-ctatcc--c	tccaggggtc
3 Chicken	agacagactc	acaaaagggg	atccgacact	gcttggatcc	tgccctttca	atgtggtttt	tttgttgagg	ttgttaattt	ctgtttgagt	tctttccttc	tctatagaag
4 Human											
5 Catfish				---ctg-----	-----gtga	gtgtggatta	tt-gat----	atgt--attt	ga-----cgt	t-taac----	-----tg
6 Bream			---gagacg	gc-----				-----gg	tggtaac--		
7 Pig_mRNA				---gatcc							
	5620	5630	5640	5650	5660	5670	5680	5690	5700	5710	5720
1 Cattle	atcagacata	tttagccacc	atat----tt	aatcaataag	ca-ggaagac	ataagctagc	cttgtccctc	ttctttcttc	cctgctcctt	tctctt-ctc	ttccccctct
2 Cattle2	atcagacata	tttagccacc	atat----tt	aatcaataag	ca-ggaagac	ataagctagc	cttgtccctc	ttctttcttc	cctgctcctt	tctctt-ctc	ttccccctct
3 Chicken	aactcccaaa	aggaaaaaca	aaaacctctt	actgtagtat	caaggaaaac	aacagctaac	gtagaaac-c	agggatcttc	atgactctg	aaactttctc	ttagcagtta
4 Human											
5 Catfish	aacgtacatc	at-----	aaagcccgtt	---ccaggcg	-aacgaa-ac	gtta--aaaa	gaagac--tc	tagtatccg-	-----	-----tg	ttctcggtgt
6 Bream					-----c	aac-----c	gt-----c	a-----c	atga-ttc-g	a---tttct-	
7 Pig_mRNA					--agga---						
	5730	5740	5750	5760	5770	5780	5790	5800	5810	5820	5830
1 Cattle	ccctttactg	tcattccatca	gtattttcac	agc-atctat	tatgtgtcag	gcattcagat	act--caaac	ggaggaaaac	aagaataaac	aagacaaaga	tctgaccaca
2 Cattle2	ccctttactg	tcattccatca	gtattttcac	agc-atctat	tatgtgtcag	gcattcagat	act--caaac	ggaggaaaac	aagaataaac	aagacaaaga	tctgaccaca
3 Chicken	ataaaaaatg	--atgct--a	gcactgagac	agtgatgatt	tcaggaagag	atactcagaa	attaacactc	tgtggagaag	cagcagggaa	atgctggtct	tcggaatgaa
4 Human											
5 Catfish	gccg----tg	acactctttg	ctggttgaaa	tgggattatt	t-----	-----gaa	gttagcaaaa	cgtagttaat	accaataaa-	-----a	tct-----
6 Bream	-tcaaaa---		---ctcaaaa	agt-----t	tca-----	-ta----at	attatc----		-----g---	-tgccg-tgt	t-----tga-
7 Pig_mRNA											
	5840	5850	5860	5870	5880	5890	5900	5910	5920	5930	5940
1 Cattle	ggggaat---	ccctatggct	actgtagact	tttg-agcca	taaaggaaga	atcaag--cc	tagtgtaaat	gaaaattcct	taatgctg--	---tgccttt	taaaaaga--
2 Cattle2	ggggaat---	ccctatggct	actgtagact	tttg-agcca	taaaggaaga	atcaag--cc	tagtgtaaat	gaaaattcct	taatgctg--	---tgccttt	taaaaaga--
3 Chicken	gagaaataat	ccctgagcag	ggagcaaaac	gtagcagact	tggaagagga	at-aagttcc	cagaagggaa	gaaagttcag	aaatgcttgc	aaatgttttt	tgagaatact
4 Human											
5 Catfish		-ccta-----	---gataac-	-tcgaaga--	-agaagaaga	a-----	--gaagaat	g----ttc--	ta-----gg-	-----ttt	aggaaagtct
6 Bream	-----aaa	cc-----g	gccggcaaa	gtcg-----	-----a	aa-aa-----	-----gac	gtaag-----	-----gctgg-		
7 Pig_mRNA											