

	2650	2660	2670	2680	2690	2700	2710	2720	2730	2740	2750	
1 Cattle	at t t t c t a a g	t t t t g a a a c a	g c t t - g a a t a	c a a c a t c t a a	g t t t t g g t g c	t a a t t a c c t g	c t a g t t t t t t	- t a t t t t t t	c o t t t a a a - -	- - - - - a g g c	t g t - - - - -	
2 Cattle2	g t t t t c t a a g	t t t t g a a a c a	g c t t - g a a t a	c a a c a t c t a a	g t t t t g g t g c	t a a t t a c c t g	c t a g t t t t t t	- t a t t t t t t	c o t t t a a a - -	- - - - - a g g c	t g t - - - - -	
3 Chicken	c a g t t t t a a -	t t t t c t t t c c	t c t c a g a a a a	g a a a a t a a a g	c c t t t a a a g g	t a g t t t c a c a	- t a g t c t g c c t	c t a t t t g c a c	c a t a c a c a g c	a c c o t g a g g t	t a t t a g t a a	
4 Human												
5 Catfish	c t t t a c t a - -	- - - - - c t	g c t t c - - a t a	g c - - - c t a a	c t t t - - - - -	- a t t a - - - -	- t t c a t t t c t	t t a t t t t g g t	c a t - - - - -	- - - - - g t g t t	t t t t t g t - -	
6 Bream			- c t c a - - a a a	g a - - - - -		- - - t t c a - -	- a g c - - - -	- - - - - c a -	- a t - - - - -	- c - - - - -		
7 Pig_mRNA												
	2760	2770	2780	2790	2800	2810	2820	2830	2840	2850	2860	
1 Cattle	c c c a g c g - - t	c c t a - a c a t a	a c a g a t g c a c	t a t a t t t t c t	g - - - - c t - a a	t t c c c g a g g c	t c a g t t a - g t	t g t c t a c t - -	- - - - -	- g t g t c t t g t	c c c c a g g t a a	
2 Cattle2	c c c a g c g - - t	c c t a - a c a t a	a c a g a t g c a c	t a t a t t t t c t	g - - - - c t - a a	t t c c c g a g g c	t c a g t t a - g t	t g t c t a c - - t	g - - - -	- - t g t c t t g t	c c c c a g g t a a	
3 Chicken	c c t a g a a a t t	c c t a g a g g t g	a c a g a a a c g t	t g a g t c a g c t	c a c - a c t g a a	t t g c t g t t g c	t t t g t g a a g g	t c c t c a g a - t	g a a c a g c a g a	a g t g a g c t t g	c a g c a g t c a c	
4 Human												
5 Catfish	- - - - - t t	g t t t g t t - t g	t t t g t t t g t t	t g t t t t t c t	g t c t a a t g c a	t a g c a a c a t c	t g - g t g c a c g	c g c g c a c c o t	t t a c a - c a - -	t g t t a c - t g t	a c a c a t g - - -	
6 Bream			- - - g a a t c g t		- a c - - - - -					- - - g a g c - - g	c a g c - - t c - -	
7 Pig_mRNA												
	2870	2880	2890	2900	2910	2920	2930	2940	2950	2960	2970	
1 Cattle	t - t c a g g c - -	c t g g g g g a a g	g g t t c c t t c c	t c c a g a c t g a	- t t g g t - a c a	g c - - - - -	- - - - - t g c - t	c a g t a a g t g t	a a c t a c t c a g	a t - - - - t c c c	a a a g a - - - a t	
2 Cattle2	t - t c a g g c - -	c t g g g g g a a g	g g t t c c t t c c	t c c a g a c t g a	- t t g g t - a c a	g c - - - - -	- - - - - t g c - t	c a g t c a g t g t	a a c c a c t c a g	a t - - - - t c c c	a a a g a - - - a t	
3 Chicken	t g t c a a g c a g	c a t t g g g c t g	t g c - c c t a c c	c t c t g a c a a a	c t t t g t c a g a	g a a a g a g a c t	t t t t - t g c a g	c t g c a t g g g t	t a g c c c a c a g	t g c t g g t g t g	a c a g g c a g a t	
4 Human												
5 Catfish	t g t a g g g t a t	a t g t t g g g a g	t t t t t t t - -	- - - t g - - t t t	c t a t g t g t g t	g t a t g t g t g t	g t g t g t g t g t	g t g t g a g t g t	g a c c a c a t a g	- - - - - t c a a	a t a g t c a c a t	
6 Bream		- - - t g g g - - -					- - - - - t g c a t	c t g c - - - - -		- - - - - g	c g c - - g t c g g	a c - - - - -
7 Pig_mRNA												
	2980	2990	3000	3010	3020	3030	3040	3050	3060	3070	3080	
1 Cattle	t c t - - a a g t g	g a t - - - - g t t	c t t c c a c a g t	g t c t c t t g t t	c t c t - - c t a a	t c a t - c a t - c	a t t t t a a a a t	t t - - - c a t c -	- - c a c t t t t c	a t t c c t t a - a	t a g a a t t t t c	
2 Cattle2	t c t - - a a g t g	g a t - - - - g t t	c t t c c a c a g t	g t c t c t t g t t	c t c t - - c t a a	t c a t - c a t - c	a t t t t a a a a t	t t - - - c a t c -	- - c a c t t t t c	a t t c c t t a - a	t a g a a t t t t c	
3 Chicken	c c t t g a g g a g	c a c a g g g g t c	c c a c t g c a g t	g - c t t t t c t t	c t c t t g c t t a	t c a t t c c t g a	a t t t c t g c c t	g t a c a c a t c g	c t c a c t c c g c	a t a g c c t a c a	g a g c g c a a g g	
4 Human												
5 Catfish	- - g t g a - - - -	- - - - -	- - - - - a a t	g t - t t g t g a a	c c c t - g c t t c	t c a g t g t g g g	a t c t g t g g a t	t t - - - - -	c t a a t t - - - -	- t a g t t t a - a	t a - a a c a t t -	
6 Bream	- - - g a g g c g	a a c a c g g - - -	- - - - - t	g - - - -		- - - t t c c t g c	a g a t c t c c c -			- - - g c c t - - -		
7 Pig_mRNA												
	3090	3100	3110	3120	3130	3140	3150	3160	3170	3180	3190	
1 Cattle	c t t a g t c c a c	a g t t c t c t g g	a a a g g a a g t a	g g c - - - - t g	c t c a t a a c a -	g c t g a a a a a a	c a t a t a c c - -	- t a a a a g a t t	c t g a a - - - a a	g c t g t a a - t a	a c t g t t a t a c	
2 Cattle2	c t t a g t c c a c	a g t t c t c t g g	a a a g g a a g t a	g g c - - - - t t	c t c a t a a c a -	g c t g a a a a a a	c a t a t a c c - -	- t a a a a g a t t	c t g a a - - - a a	g c t g t a a - t a	a c t g t t a t a c	
3 Chicken	g a t c a g c t a c	a g t t a c t t a g	a a a a t g g t t a	g c c a a a c t t t	c t t t t a g c c t	g c t t a c a a a a	c a a c c a t c a g	t t c c t t g t c a	c a g a a t g t t a	c t t g t a g g t g	a c a g c - a t a a	
4 Human												
5 Catfish	- - - - -	a - t t a t a t a t	a a a g - - a t t a	t t - a a a c - - -	c t - - - a a c c t	- - - - - a t a a	t a t a t a c c - -	- - - - -	- - - - -	- - t a t a a a t a	a - - - - - a g	
6 Bream	g a t - - - - -	- - - - -	- - - - -	g c c - - - -			- - - - - g	- - - - - g t c a	c g g a c g g g a a	c - - - - g g - - -	- - - g c - a c a -	
7 Pig_mRNA												
	3200	3210	3220	3230	3240	3250	3260	3270	3280	3290	3300	
1 Cattle	t t g a t a t - t t	t g c t g t t - - a	t g a a t - - - - -	- g a a a t g c t a	c - a t a t t t t -	t c c a t t - - - t	t a a - a a g a c t	a a a t a t g c a c	a c a t t a t t c c	a a t t a a a a a a	a t g t t c a t a g	
2 Cattle2	t t g a t a t - t t	t g c t g t t - - a	t g a a t - - - - -	- g a a a t g c t a	c - a t a t t t t -	t c c a t t - - - t	t a a - a a g a c t	a a a t a t g c a c	a c a t t a t t c c	a a t t a a a a a a	- t g t t c a t a g	
3 Chicken	t g a t t a g a t t	t g c t g t a g a a	t g t a g a g t a c	a g a a a t t g a a	t g a t a t t g c a	t c c a c t c t g t	t a c c a a t a c a	g t t t a t g t a -	a t a t t g t a a g	a c a t c c t a c a	- t g a t c - t g g	
4 Human												
5 Catfish	t g c a t - - - - -	- - - t g t - g a t	t g g a a a g t t c	t g a a a t a a a a	c a a c a - - - - -	- - - a c t a t g t	- - - - - g g c t	a c t t t t - t a c	t t t t t a t g a -	- - - - -	- - g t c c a t - g	
6 Bream			- - - - - t a c	a - - - - a a a a a	- - - - - c a	t c c g c t c - - -	- - c c - - - - -	- - - - - t g - a	a g a t c g - - - -	- - - - - a c g	- t g a a c - - - -	
7 Pig_mRNA											- - - - - t g g	