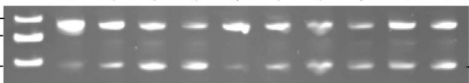


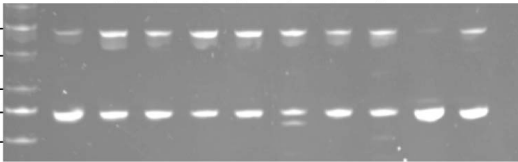
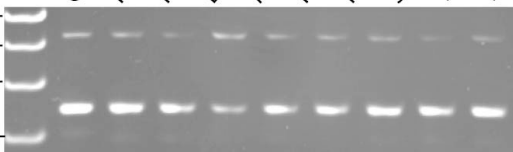
Table S4. RT-PCR Analysis of 20 High-RSPR AS Exons vs. 20 Low-RSPR AS Exons.

No. 1~20 exons are with high RSPR (RSPR>3.0, P_{RSPR}<0.001), No. 21~40 exons are with low RSPR (RSPR<1.0, P_{RSPR}<0.001). Tissue-specific AS: **T-AS**, Non-Tissue-specific AS: **NT-AS**, Constitutive: **Const**;
Solid arrow: Inclusion, Hollow arrow: Skipping, Dashed arrow: Non-specific amplification by PCR.

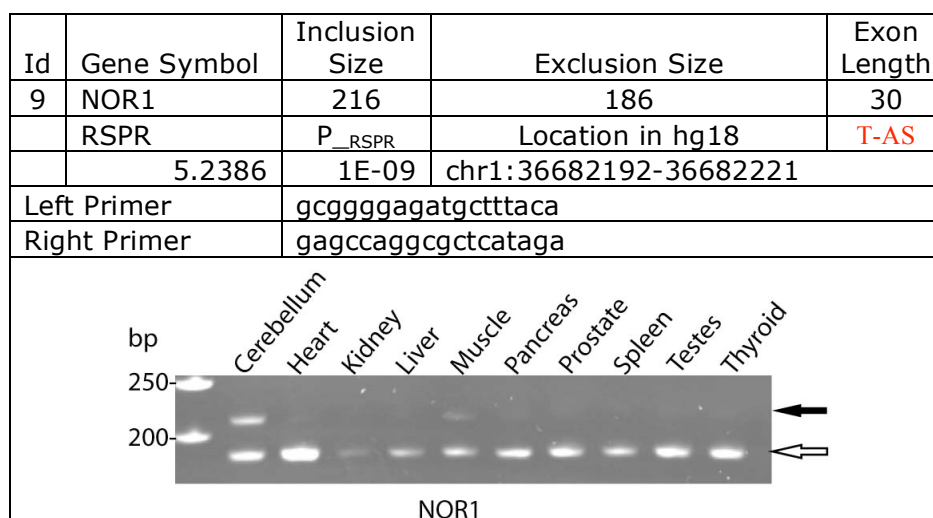
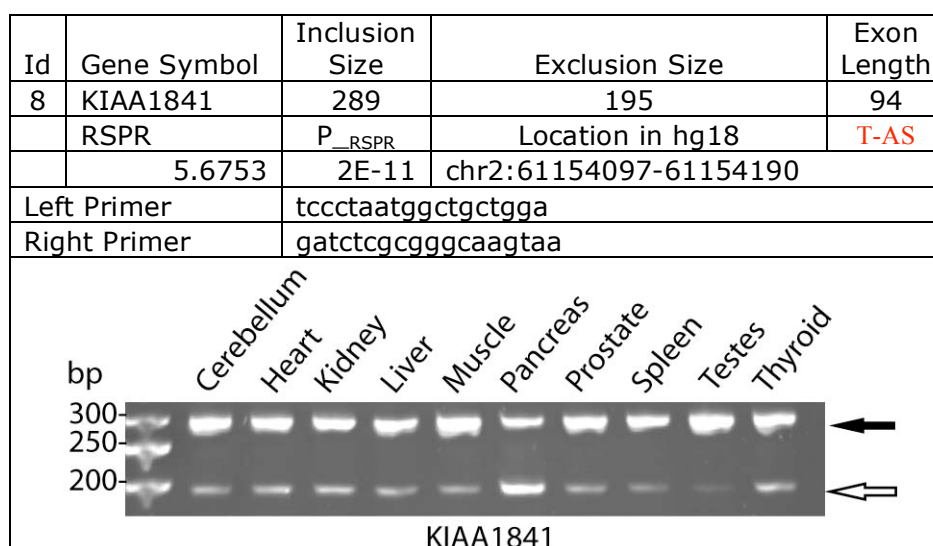
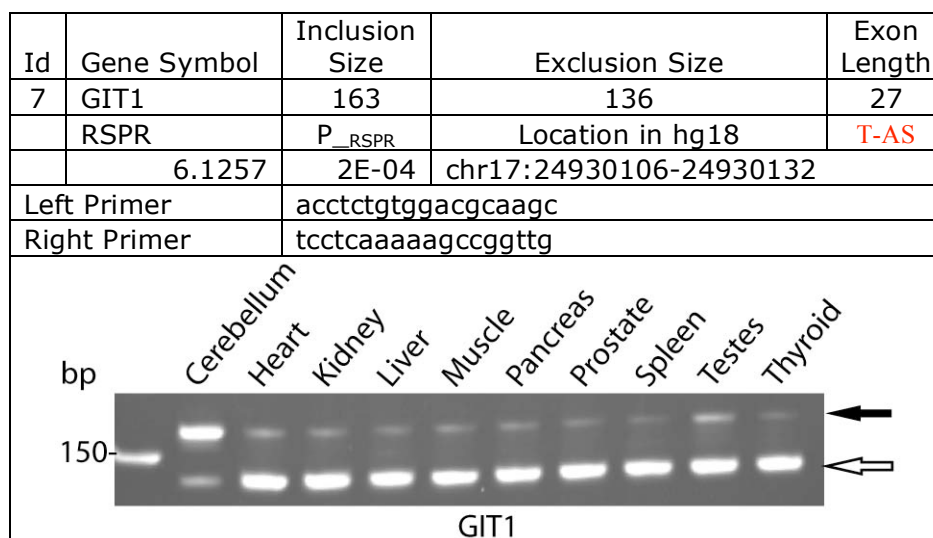
Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length	
1	PABPC4	299/251	212/164	87	
	RSPR	P _{RSPR}	Location in hg18	T-AS	
	36.2357	3E-15	chr1:39802095-39802181		
Left Primer		gggcctcgtccaactctt			
Right Primer		tgcagaggctgtatggca			
</					

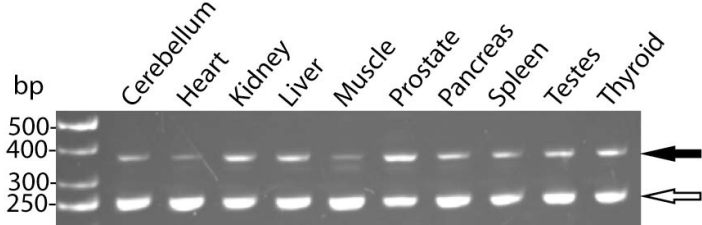
Id		Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
2		RIF1	271	193	78
	RSPR		P _{—RSPR}	Location in hg18	T-AS
	24.602		2E-12	chr2:152033234-152033311	
Left Primer		accaagcaggattggcag			
Right Primer		ggtgccacacagttcacc			
bp 300 250 200 Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid  RIF1					

Id		Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
3		UAP1	300	249	51
		RSPR	P _{RSPR}	Location in hg18	T-AS
		12.2613	1E-09	chr1:160829146-160829196	
Left Primer		gtcctcaatgcagggggg			
Right Primer		cgtggcaaacaaaacttgg			
bp 300 250 Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid  UAP1					

Id		Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
4		BRD8	464	245	219
		RSPR	P_RSPR	Location in hg18	T-AS
		8.8782	1E-19	chr5:137532058-137532276	
Left Primer		agattctgcctccccagg			
Right Primer		aaagccgggaaagagtgg			
bp 500 400 300 250 200 Cerebellum Heart Kidney Liver Muscle Prostate Pancreas Spleen Testes Thyroid  BRD8					
Id		Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
5		BAI2	222	123	99
		RSPR	P_RSPR	Location in hg18	NT-AS
		6.8373	4E-11	chr1:31973371-31973469	
Left Primer		caacaagctcatggcacg			
Right Primer		aggacggcagacatccag			
bp 250 200 150 100 Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid  BAI2					

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
6	FLJ20716	243	171	72
	RSPR	P_RSPR	Location in hg18	T-AS
	6.4674	3E-05	chrX:119303508-119303579	
Left Primer		tgccatagttgacggggt		
Right Primer		cagaagcaggtgttgccc		
bp 250 200 150 Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid FLJ20716				



Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
10	PCM1	364	247	117
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	5.051	2E-18	chr8:17841831-17841947	
Left Primer		agctagttccatgcggga		
Right Primer		ctgccgtccctgtagagc		
				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
11	SMURF1	332	254	78
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	4.8473	1E-05	chr7:98486474-98486551	
Left Primer		aacaacagtcaggggcca		
Right Primer		ggctgggctccttgagtt		

bp

Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid

400-
300-
250-
200-



SMURF1

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
12	LPHN1(Exon A)	265	250	15
	RSPR	P _{RSPR}	Location in hg18	T-AS
	49.9307	5E-05	chr19:14138828-14138842	
Left Primer		gcctttcctgaccctgt		
Right Primer		ccacgtagtcctccacg		

B

A

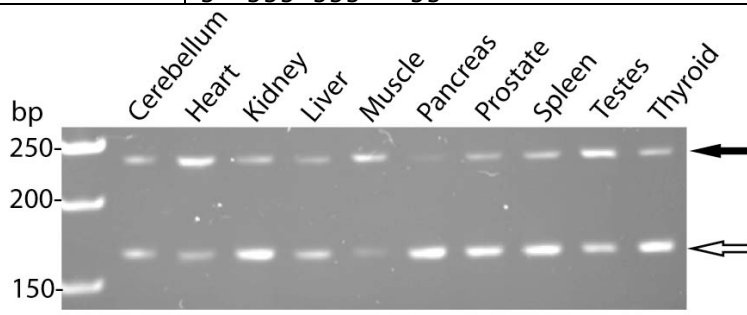
Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid

bp

300

250

LPHN1

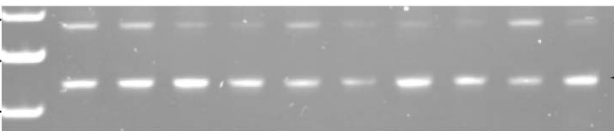
Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
13	DMWD	244	169	75
	RSPR	P _{RSPR}	Location in hg18	T-AS
	40.9557	9E-16	chr19:50979739-50979813	
Left Primer		catcatcactgcctgcca		
Right Primer		gcagggagggttatggct		
				

		Inclusion Size	Exclusion Size	Exon Length
14	TCERG1	287	224	63
	RSPR	P _{RSPR}	Location in hg18	T-AS
	30.8229	1E-17	chr5:145828097-145828159	
Left Primer		acagccacacctgtgcaa		
Right Primer		gcaatagcaacctgggga		

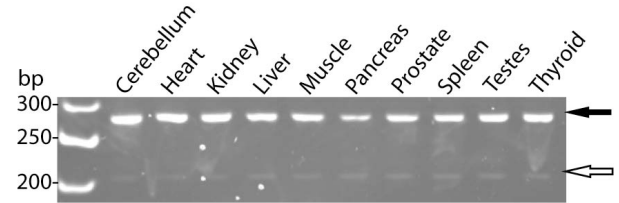
bp

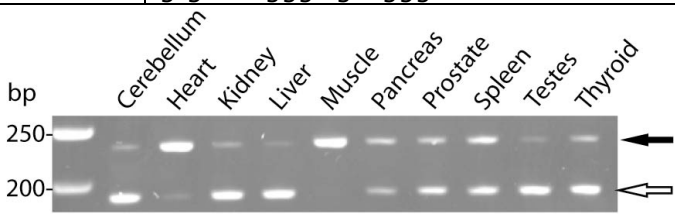
Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid

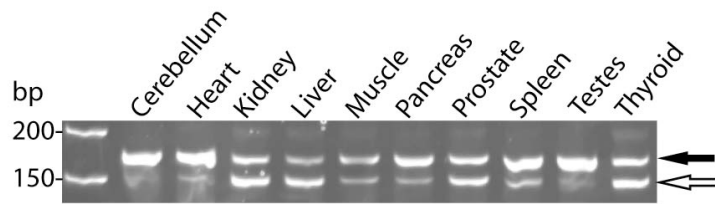
300
250
200



TCERG1

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
15	RBM10	291	217	74
	RSPR	P_RSPR	Location in hg18	NT-AS
	27.5284	9E-16	chrX:46919362-46919435	
Left Primer		caggcagccactgaggat		
Right Primer		gaagcacttctctcggcg		
				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
16	MAP2K7	245	197	48
	RSPR	P_RSPR	Location in hg18	T-AS
	24.9002	2E-14	chr19:7876693-7876740	
Left Primer		aagcaggagaaccgggag		
Right Primer		gtgaacagggttgacggg		
				
MAP2K7				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
17	C1orf9	172	151	21
	RSPR	P_RSPR	Location in hg18	T-AS
	23.8038	6E-10	chr1:170813302-170813322	
Left Primer		ttcatggtagagatgagcgg		
Right Primer		tccaccatgctagtgcga		
				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
18	LPHN1 (Exon B)	350	265	85
	RSPR	P _{RSPR}	Location in hg18	T-AS
	22.8582	4.76E-16	chr19:14136433-14136517	
Left Primer		gcctttcctgacccctgt		
Right Primer		ccacgtagtcctccacg		
</				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
19	IQSEC2	371	275	96
	RSPR	P_RSPR	Location in hg18	NT-AS
	21.0059	7E-10	chrX:53325471-53325566	
Left Primer		gtggagacaccggctagg		
Right Primer		cctcctcctcctgcttc		

bp

400

300

250

Cerebellum

Heart

Kidney

Liver

Muscle

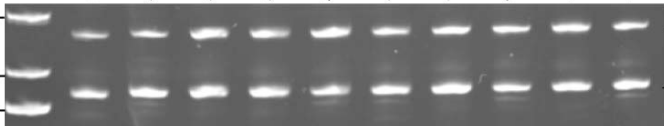
Pancreas

Prostate

Spleen

Testes

Thyroid



IQSEC2

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
20	KIAA0433	509	335	174
	RSPR	P_RSPR	Location in hg18	T-AS
	20.0991	1E-41	chr5:102546834-102547007	
Left Primer		gggagccaaagggttgta		
Right Primer		taaacaggcccgcacagt		

bp

500

400

300

Cerebellum

Heart

Kidney

Liver

Muscle

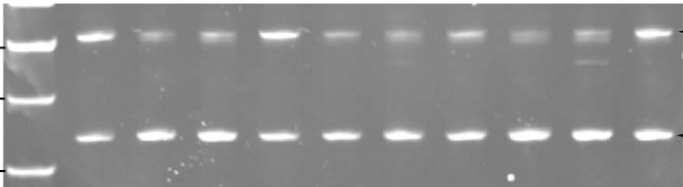
Pancreas

Prostate

Spleen

Testes

Thyroid



KIAA0433

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
21	WSB2	340	239	101
	RSPR	P_RSPR	Location in hg18	Const
	0.0412	5E-04	chr12:116960476-116960576	
Left Primer		cagggctcctgcttttga		
Right Primer		acaagcagggcagagtcg		

bp

400

300

250

200

Cerebellum

Heart

Kidney

Liver

Muscle

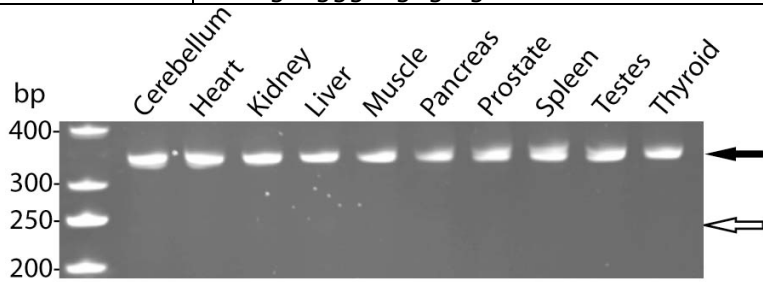
Pancreas

Prostate

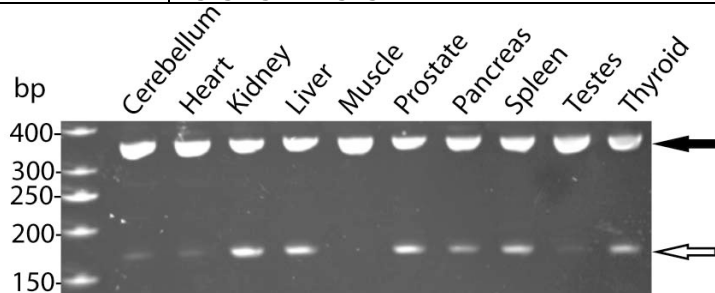
Spleen

Testes

Thyroid



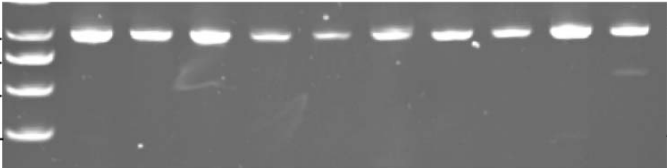
WSB2

	Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
	22	NGLY1	342	164	178
		RSPR	P _{RSPR}	Location in hg18	NT-AS
		0.5849	7E-05	chr3:25736509-25736686	
Left Primer			gatgggagaatggcgtgt		
Right Primer			tgtgttgccaagcgacat		
 NGLY1					

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
23	DKFZp761L141	304	144	160
	RSPR	P_RSPR	Location in hg18	Const
	0.6355	5E-04	chr7:98295738-98295897	
Left Primer		cgctgactgctggatgtg		
Right Primer		cgccaccactttgagctt		

bp

Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid



300
250
200
150

DKFZp761L141

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
24	SLC17A3	319	231	88
	RSPR	P_RSPR	Location in hg18	T-AS
	0.7403	4E-05	chr6:25969831-25969918	
Left Primer		gcgagtgggttgccatttc		
Right Primer		aaggcagcagacacagcc		
				
SLC17A3				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
25	BRPF3	330	232	98
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	0.7524	2E-05	chr6:36297923-36298020	
Left Primer		gagagcgaaggggagagg		
Right Primer		ggcagggtaggaggggta		

bp

300

250

200

Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid

BRPF3

		Inclusion Size	Exclusion Size	Exon Length
26	GPNMB	409	235	174
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	0.767	7E-04	chr7:23263036-23263209	
Left Primer		ccagtgactcaccagccc		
Right Primer		gcccggtccatgtcttctg		

bp

500

400

300

250

200

Cerebellum Heart Kidney Liver Muscle Pancreas Prostate Spleen Testes Thyroid

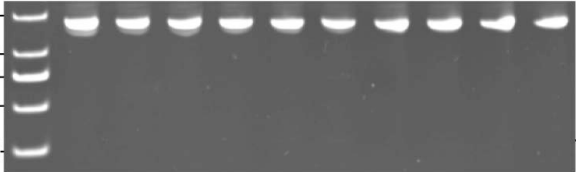
GPNMB

	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
27	DMTF1	388	159	229
	RSPR	P_RSPR	Location in hg18	Const
	0.7723	2E-06	chr7:86651649-86651877	
Left Primer		cggcgctaggaagaagtg		
Right Primer		agccattgtggtgaacgg		

bp

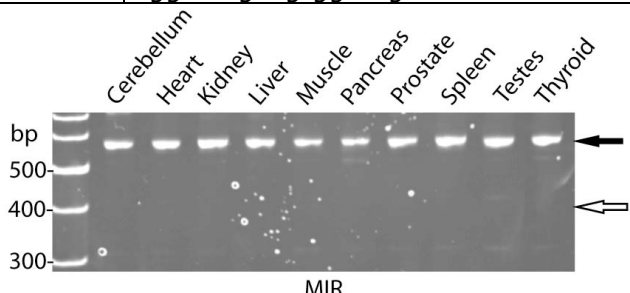
400-
300-
250-
200-
150-

Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid



DMTF1

		Inclusion Size	Exclusion Size	Exon Length
28	MIR	567	386	181
	RSPR	P _{RSPR}	Location in hg18	Const
	0.7824	1E-04	chr10:45276685-45276865	
Left Primer		tccatggcccaaatgac		
Right Primer		tggcaatgacgtggaatg		



bp

500

400

300

Cerebellum

Heart

Kidney

Liver

Muscle

Pancreas

Prostate

Spleen

Testes

Thyroid

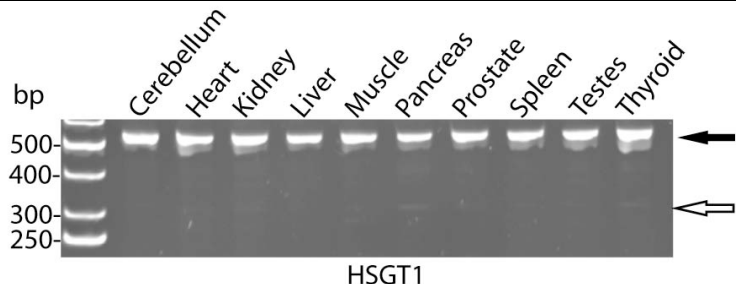
MIR

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
29	HSGT1	519	301	218
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	0.8006	8E-04	chr10:74593497-74593714	
Left Primer		atcagctctcgagtcg		
Right Primer		ttcccatggcagaaaaa		

bp

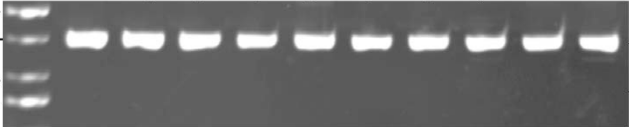
Cerebellum
Heart
Kidney
Liver
Muscle
Pancreas
Prostate
Spleen
Testes
Thyroid

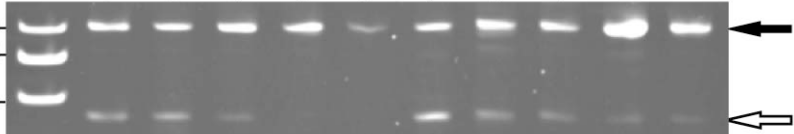
500
400
300
250

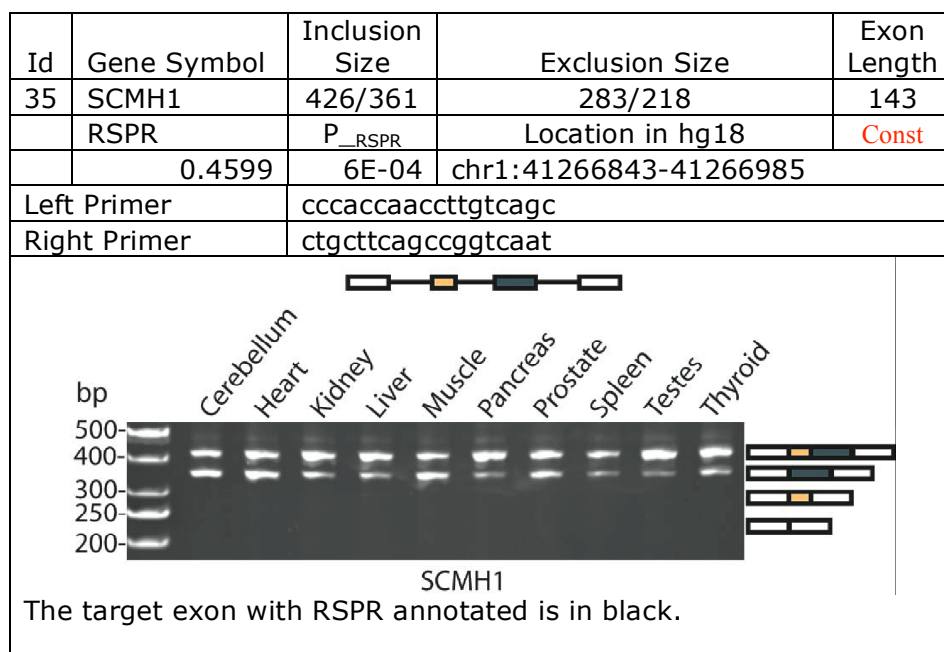
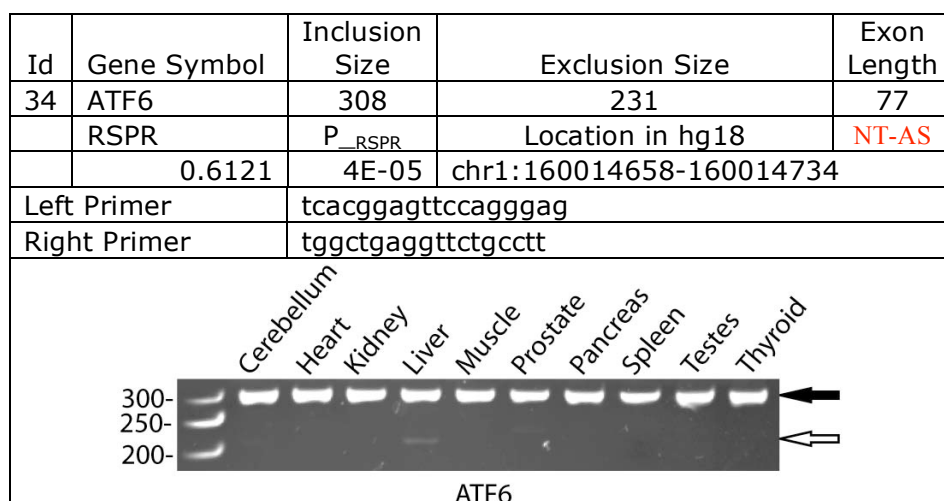
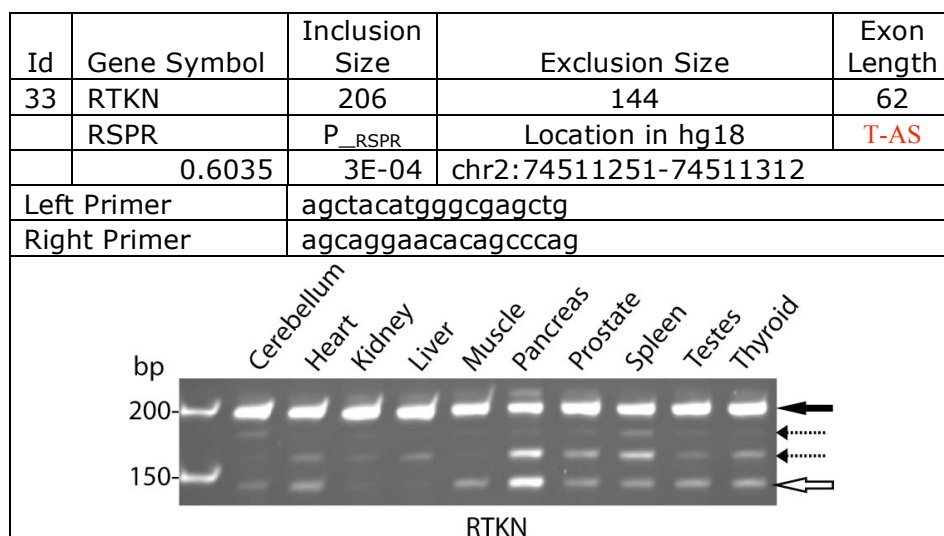


HSGT1

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
30	POLDIP3	297	230	67
	RSPR	P_RSPR	Location in hg18	Const
	0.8072	2E-04	chr22:41313456-41313522	
Left Primer		gggtccatcctggggtagc		
Right Primer		acagaggcccctgaggac		
bp 300 250 200 Cerebellum Heart Kidney Liver Muscle Prostate Pancreas Spleen Testes Thyroid POLDIP3				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
31	SORT1	397	273	124
	RSPR	P_RSPR	Location in hg18	Const
	0.5868	3E-04	chr1:109658406-109658529	
Left Primer		ccaggggtggggtaaattcc		
Right Primer		tggagccacagggagtgt		
bp 500- 400- 300- 250- Cerebellum Heart Kidney Liver Muscle Prostate Pancreas Spleen Testes Thyroid  SORT1				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
32	PHF7	304	182	122
	RSPR	P _{RSPR}	Location in hg18	NT-AS
	0.5934	8E-04	chr3:52431816-52431937	
Left Primer		acagagatgctgcctggg		
Right Primer		tcctcaggggtggaagggtg		
PHF7-Hu(lnc 304 Skip 183) 64C (2009-08-17)				
				



Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
36	NECAP1	225	143	82
	RSPR	P_RSPR	Location in hg18	NT-AS
	0.4986	2E-04	chr12:8135632-8135713	
	Left Primer	ttgctgtggagacggtga		
	Right Primer	ccttgaagcccagatcca		

bp

300

250

200

150

Cerebellum

Heart

Kidney

Liver

Muscle

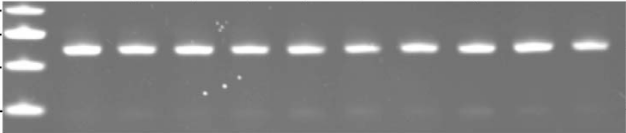
Pancreas

Prostate

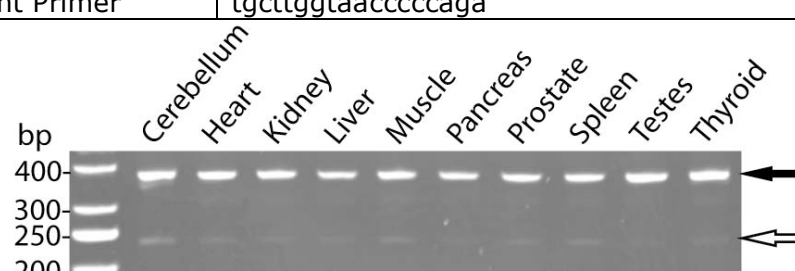
Spleen

Testes

Thyroid



NECAP1

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
37	SENP2	369	237	132
	RSPR	P_RSPR	Location in hg18	NT-AS
	0.5192	3E-06	chr3:186817962-186818093	
Left Primer		ctgggcagtggaagcaat		
Right Primer		tgcttggaacccccaga		
				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
38	IFNAR1	328	186	142
	RSPR	P _{RSPR}	Location in hg18	Const
	0.5412	3E-05	chr21:33637711-33637852	
Left Primer		tgtgggctttggatggtt		
Right Primer		gcgtggagccactgaact		

bp

400

300

250

200

150

Cerebellum

Heart

Kidney

Liver

Muscle

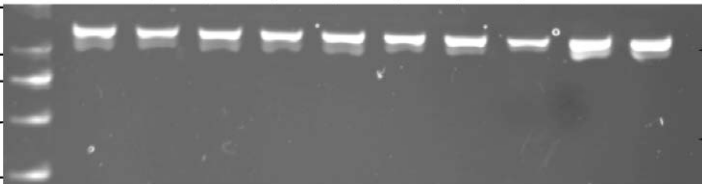
Prostate

Pancreas

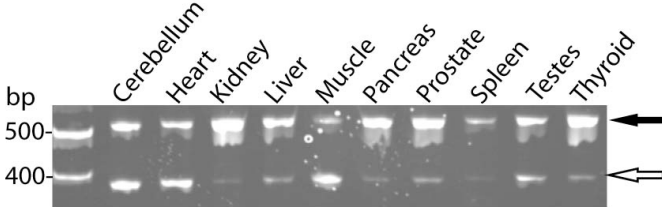
Spleen

Testes

Thyroid



IFNAR

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
39	PROM2	540	393	147
	RSPR	P _{=RSPR}	Location in hg18	T-AS
	0.568	3E-06	chr2:95314444-95314590	
Left Primer		gtttgcagacaccccagg		
Right Primer		agattcggggcagaggac		
				

Id	Gene Symbol	Inclusion Size	Exclusion Size	Exon Length
40	TARBP2	499	371	128
	RSPR	P_RSPR	Location in hg18	T-AS
	0.5744	9E-05	chr12:52185186-52185313	
Left Primer		agtctgagtgcaaccccg		
Right Primer		ccactcaggctcagctcc		
bp 500 400 Cerebellum Heart Kidney Liver Muscle Prostate Pancreas Spleen Testes Thyroid  TARBP2				