

Кто подбирал?	Карина												
у этого гена несколько действительных транскрипционных вариантов													
				праймеры взяты на стыке экзонов									
	Sequence (5'→3'	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' compleme	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	GGACCTCTCTGC	Plus	25	5734	5758	63,54	52	5	2	-1.79 (Tm 51.7)	-3,55		yes
Reverse primer	GCCTGGGAGAT	Minus	21	5918	5898	63,09	61,9	3	2	-1.54 (Tm 42.1)	-3,61	-6,69	
Product length										185			
Exon junction	5754/5755 (forward primer) on template NM_170589.5												
				праймеры взяты на стыке экзонов									
	Sequence (5'→3'	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' compleme	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	CCTCTCTGGACT	Plus	25	5737	5761	64,55	56	5	2	-1.45 (Tm 44.1)	-3,61		yes (BLAST), UCSC нашел еще продукт покороче 189bp
Reverse primer	GGCGACGAGCC	Minus	21	6024	6004	63,01	57,14	5	2	-2.9 (Tm 59.3)	-6,21	-3,61	
Product length										288			
Exon junction	5754/5755 (forward primer) on template NM_170589.5												
				праймеры взяты на стыке экзонов + интрон между ними									
	Sequence (5'→3'	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' compleme	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	GGTGCAGTCAG	Plus	24	6230	6253	63,22	54,17	5	3	-3.54 (Tm 61.4)	-6,34		yes
Reverse primer	GGGTCTGCTCTT	Minus	25	6489	6465	63,27	52	4	2	-0.86 (Tm 34.4)	-4,41	-6,69	
Product length										260			
Exon junction	6245/6246 (forward primer) on template NM_170589.5												
Total intron size	4278 (between pos. 40647074 and 40651471 on NC_000015.10)												

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	Sequence (5'→3	Template strand Length	Start	Stop	Tm	GC%	Self complemer	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific	
Forward primer	TTGCAGACAAA	Plus	21	10314	10334	63.39	52.38	4.00	0.00	-3.11(Tm=48)	-7.05		
Reverse primer	TGGACCTACTT	Minus	25	10412	10388	63.62	52.00	4.00	2.00	-0.68(Tm=33.4)	-4.67	yes	
Product length	99												
Exon junction	10393/10394 (reverse primer) on template NM_018136.5												
	Sequence (5'→3	Template strand Length	Start	Stop	Tm	GC%	Self complemer	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific	
Forward primer	ACAAAACCCAT	Plus	24	2198	2221	63.63	45.83	3.00	3.00	-1.44(Tm=42.7)	-5.02		
Reverse primer	GCATCGGGTG	Minus	25	2279	2255	64.45	52.00	4.00	0.00	-0.24(Tm=28.4)	-3.91	yes	
Product length	82												
Exon junction	2258/2259 (reverse primer) on template NM_018136.5												

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праймеры на стыке экзонов + интрон между ними													
	Sequence (5'→3')	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	AGAACATCCATTGCTTAGAGCTGC		25	1536	1560	63.40	48.00	4.00	1.00	-1.71(Tm=46.1)	-6.34	-6.21	yes
Reverse primer	GCCATCCCAGA(Minus		21	1825	1805	63.69	61.90	5.00	3.00	-3.92(Tm=56.2)	-6.21		
Product length										290			
Exon junction	1555/1556 (forward primer) on template XM_047441951.1												
Total intron size	3261 (between pos. 101128836 and 101132190 on NC_000023.11)												
праймеры на стыке экзонов													
	Sequence (5'→3')	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' complementarity	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	AACATCCATTGC Plus		25	1538	1562	63.09	44.00	4.00	1.00	-1.71(Tm=46.1)	-6.34	-6.69	yes
Reverse primer	AGCACTCTGCC(Minus		22	1760	1739	63.76	54.55	4.00	2.00	-1.37(Tm=44.5)	-5.09		
Product length										223			
Exon junction	1555/1556 (forward primer) on template XM_047441951.1												
интрон между праймерами													
	Sequence (5'→3')	Template strand	Length	Start	Stop	Tm	GC%	Self complement	Self 3' complementarity	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	TGTGTTGGCAAC Plus		24	935	958	63.77	50.00	5.00	2.00	0.16	-3.9	-7.19	yes
Reverse primer	ACAACAAAGCC(Minus		23	1199	1177	63.26	52.17	4.00	2.00	-2.59(Tm=52.4)	-7.81		
Product length										265			
Total intron size	16913 (between pos. 101109591 and 101126709 on NC_000023.11)												

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праймеры на стыке экзонов						
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	Sequence (5'->3	Template strand	Length	Start	Stop	Tm	GC%	Self complemer	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	TACCATCACCT	Plus	24	7979	8002	63.48	50.00	2.00	0.00	0.57	-3.61		
Reverse primer	GCTCCTGCATT	Minus	23	8054	8032	64.62	56.52	5.00	1.00	-2.07(Tm=49.8)	-7.05	-6.62	yes
Product length	76												
Exon junction	1214/1215 (forward primer) on template NM_001165960.1												
	Sequence (5'->3	Template strand	Length	Start	Stop	Tm	GC%	Self complemer	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	ACCATCACCTC	Plus	23	7980	8002	63.85	52.17	2.00	0.00	0.57	-3.61		
Reverse primer	CCTGCATTTTG	Minus	23	8051	8029	63.74	52.17	5.00	2.00	-2.07(Tm=48.8)	-7.05	-8.2	yes
Product length	72												
Exon junction	8035/8036 (reverse primer) on template NM_001813.3												
	Sequence (5'->3	Template strand	Length	Start	Stop	Tm	GC%	Self complemer	Self 3' complem	Hairpin	Selfdimer	Heterodimer	Specific
Forward primer	AACACTTACTG	Plus	25	969	993	63.44	48.00	4.00	1.00	-2.81(Tm=56.9)	-4.89		
Reverse primer	TTCCATTGCCT	Minus	19	1140	1122	63.29	63.16	3.00	2.00	-0.88(Tm=39)	-3.61	-6.31	yes
Product length	172												
Exon junction	987/988 (forward primer) on template NM_001813.3												