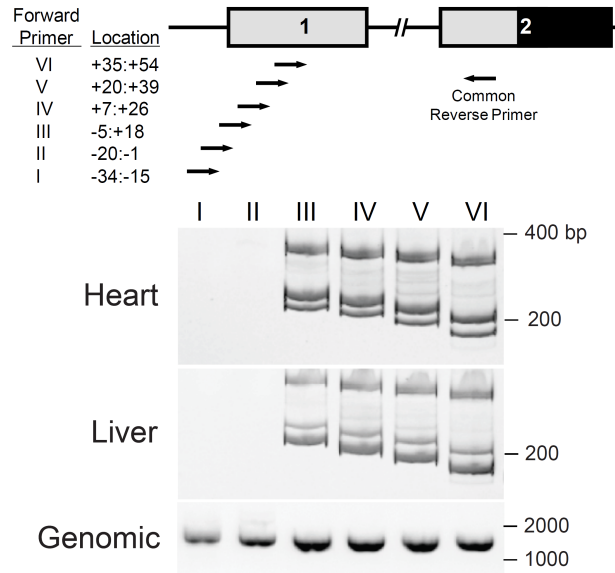


A



B

## Alternative RNA splicing in RGMc exon 2

	<-----Intron 1----->	251-nt exon 2 variant
Mouse	tcttcccaagatcc-agtctgtctcattt-ttgttttggctctcttcag	<b>ATGCTCTCTCTACCCACCATCT</b>
Rat	tcttcccaagatcc-agtctgtctcattt-ttgtcttcctctctcag	AT----TCTCTACCCACCATCT
Rabbit	tctctccaaaacc--gactg-ctcatcc-tttccttgatctccccag	AT----TCTCTTCACAGCATCC
Human	tctcccaaatcc-agtctg-ttcatcc-ttttcttgatctccccag	AT----TCACTCCACATTATCC
Dog	tttcccaaaactcc-cgaccg-ctcatccttttctgatcttcccag	AT----TCTCTTCATATAATCC
Cow	ttcccctaaactcc-agttag-ctcattc-ttttcttgatcttcccag	AT----TCTCTTCACATCATTC
Armadillo	tctcccaaaactt---gtctt-cttatgc-tttacttgatctccccaa	AT----TCTCTTCACAT-ACCC
Elephant	tctcccaaaactct-ggtcct-ctcatcc-ttttcttgatcttctctg	AT----TCTCTTCACATAACTC
Tenrec	tctcccagactccaggacct-ctcacct-ttgtcttgatctctcag	AT----TCGCTTCACG-GACCC
Opossum	tttcttttattcc-tatct--cccatca-tttctttgacctccctag	AT----CCCTATAACCTTTCT
		192-nt exon 2 variant
Mouse	<b>TGACTGGTCTCCAACCCTTCTCTTTC-CCACACTCAG</b>	<b>CCAAATTTTC---TTCTTCCA---G TCACAG</b>
Rat	TGACTAATCTTCAACCCTTCTCTTTC-CCACACGCAG	CCAAATTTTC---TTCTTCCG---A TCGCAG
Rabbit	TGACCAATCCTCAACTCTTCTCTTTC-TCCATGCCAG	CCAAATTTCTCTTTTTTTC---G TCACTT
Human	TTACCAATCTTCAATTCTTCTCTTC-TCCATGTCCAG	CCAAATTTTC---TTTTTTC---G TCACTT
Dog	TGAATGATCTTCGACTCTTCTCTTC-CCCATGCCAG	CCAAGTTTC---TTTTTTC---G TCCTTT
Cow	TGAACAATCTTCAACTCTTCTCT-TCCATGCCAG	CCACATTTTC---TTTTTTC---G TCCCTT
Armadillo	TGACCAATCTTCAACTCTTCTCTCTCGTATGCCAG	CCAAATTTTC---TTTTTTC---G TCCCTT
Elephant	TGACCAATCTTCAACTCTTCTTCTCCCTATGCCAG	CCAAATTTTC---TTTTTTC---G TCCCTT
Tenrec	CGCCTGACC----ACCCTTCTTCTCCGCTATGCCAG	CCAGATTTTC---CTTCTCA---G CCCCTT
Opossum	CACTCAGACTTTGGCTCCTTACC--CAACTTCCA	CCAGATTTTC---CCTTTAAACAAGG TCCCTT
	Exon 2 (174-nt variant)	
Mouse	<b>A-AGTA---CCCAGAGAAATTCAGTAGGTAGGA-GGCTCATCATCTGGGAAGAACC</b>	<b>GGTG-CCTGGGG...</b>
Rat	A-AGTAGTACTCGGCGAAATTCAGTAGGTAGGA-GGCTCCTCATCTGGGAAGAACC	GGTG-CCTGGGG...
Rabbit	ACAGGACGACCGGTCAAAATTCAGTAGGTAGGAGGGCTCATCAGCTGGGAAGAAT	CGGGG--CTGGGG...
Human	ACAGGGCTTCCGGTCAAAATTCAGTAGGTAGGA-GGGTCATCAGCTGGGAAGAACC	GGCG-CCTGGGA...
Dog	ACAGGAGGTCCGGTCAAAATTCAGTAGGTAGGA-GGGTCGTCAGCTGGAAAAAGCC	GGAG-CCTGGGG...
Cow	ACAGGACGTCGGGTCAAAATTCAGTAGGTAGGA-GGGTCATCAGCTGGAAAGAACC	GGAA-CCTGGGG...
Armadillo	ACAGGACGACCGGTCAAAATTCAGTAGGTAGGA-AGGTCATCAGCTGGAAAGAGCC	GGAG-CCTGGGG...
Elephant	ACAGGACGTCGGTCAAAATTCAGTAGGTAGGA-GGGTCATCAGCTGGAAAGAACC	GGAG-CCTGGGG...
Tenrec	ACAGGACCTCCGGCCCAATTCAGTAGGTAGGA-GAGTCATCAGCTGGAAAGAACC	GGAG-CCTGGGG...
Opossum	CCAGGGAATCCAGCCAG-----CAGCCGGAA-G-----AGAACTGGGACCAGGGG...	