

Sequencing of Rab6 constructs

Results received Oct 8 2006

: pCMV-intron-Myc-Rab6A WT → tube H6  
 : pCMV-intron-Myc-Rab6A T27N → tube H7

= Enzymes that DO NOT MAP to this sequence:

AarI	AatII	AbsI	Acc65I	AclI	AfeI	AgeI	AhdI	AjuI	AjuI
AleI	AlfI	AloI	AloI	AlwNI	ApaLI	AscI	AseI	AsiSI	AvrII
BaeI	BaeI	BarI	BarI	BbeI	BglI	BlpI	BplI	BpmI	BpuEI
BsaBI	BsaXI	BsaXI	BseYI	BsgI	BsiWI	BsmI	BsmBI	BspEI	BspHI
BsrDI	BsrGI	BssHII	BssSI	BstBI	BstEII	BstXI	BstZ17I	BtgZI	ClaI
CspCI	CspCI	DraIII	EagI	EcoNI	EcoRI	FseI	FspI	FspAI	GsaI
KasI	KpnI	MauBI	MluI	MreI	MscI	NaeI	NarI	NcoI	NdeI
NgoMIV	NmeAIII	NotI	NruI	NsiI	PacI	PasI	PciI	PflMI	PfoI
PmlI	PshAI	PsiI	PsrI	PsrI	PvuI	PvuII	RsrII	SacII	SalI
SanDI	SapI	SbfI	SexAI	SfiI	SfoI	SgrAI	SgrDI	SmaI	SnaBI
SphI	SrfI	SspI	StuI	SwaI	TaqII	TaqII	TstI	TstI	Tth111I
XcmI	XmaI	XmnI	ZraI						

== Total Number of Hits per Enzyme:

AcuI	1	BciVI	1	BsaI	1	DrdI	1	MfeI	2	SacI	1
AflII	3	BclI	1	BseRI	1	EarI	1	NheI	1	ScaI	1
ApaI	1	BdaI	1	BspMI	2	EciI	1	PmeI	1	SpeI	1
BamHI	1	BglII	1	BsrBI	1	EcoICRI	1	PpiI	1	XbaI	2
BbsI	1	BmgBI	1	BstAPI	1	EcoRV	1	PpiI	1	XhoI	1
BbvCI	1	BmrI	3	Bsu36I	1	FalI	2	PspOMI	1		
BcgI	1	BmtI	1	BtsI	1	HindIII	1	PspXI	1		
BcgI	1	Bpu10I	1	DraI	1	HpaI	1	PstI	1		

== Linear Map of Sequence:

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Intron  
between HindIII and NheI

SacI  
EcoICRI  
HindIII

1 caatgggCGGTAGGCGGTGACGGTGGGAGGCTCTATATAAGCAGAGCTCGTtttagtgaaccgTCAGATCactagaagctttattgCGGtag

90 gttaccCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGAGCAAATCacttgCGAGTCTAGTgatcttcgaaataacgCCATC

1 Q W A V G V Y G G R S I \* A E L V \* \* T V R S L E A L L R \*

BstAPI DrdI AflIII PstI BtsI AflIII

91 tttatcacagTtaaattgctaacgcagTCAGTgcttctgacacaacagTctCGAacttaagctgcagTgactctcttaaggtagccttgc

180 aaatagTgtcaatttaacgattgCGTCAGTcacgaagactgtgttgTCAGAGcttgaattcgcagTcactgagagaattccatCGGAACG

1 F I T V K L L T Q S V L L T Q Q S R T \* A A V T L L R \* P C

BspMI~ Fall BmrI BsaI~ BmrI

181 agaagTtgTcGTgAGGcactgggcagGtaagtatcaagGttacaagcagGtttaagGagaccaatagaactgggcttGTCGAGACAG

270

tcttcaaccagcactccgtagcccgccattcatagttccaatgttctgtccaaattcctctggttatctttgaccggaacagctctgtc  
1 R S W S \* G T G Q V S I K V T R Q V \* G D Q \* K L G L S R Q

BbsI BmrI~  
271 agaagactcttgctgtttctgatagggacactattggtcttactgacatccactttgctttctctccacaggtgtccactcccagttcaat  
360 tcttctgagaacgcaaagactatccgtaggataaccagaatgactgtaggtgaaacggaagagaggtgtccacaggtgaggggtcaagtta

1 R R L L R F \* \* A P I G L T D I H F A F L S T G V H S Q F N

AflIII ScaI BmtI PpiI~ EarI~ PpiI XbaI  
361 tacagctcttaaggcttagagtagtacttaatacagactcactataggctagcctcgacatggaacagaaactcatctctgaagaggatctgtct  
450 atgtcggagaattccgatctcatgaattatgctgagtgatccgatcggagctgtaccttgtctttgagtagagacttctcctagacaga

1 Y S S \* G \* S T \* Y D S L \* A S L D M E Q K L I S E E D L S  
cMyc

AcuI BamHI Bpu10I~ EciI BhvCI~ BdaI  
451 agaggatccaccatgtccacggggcggagacttcgggaatccgctgaggaaattcaagctggtgttctctgggggagcaaagcgttggaag  
540 tctcctaggtgggtacaggtgccccgctctgaagcccttagggcactcctttaagttcgaccacaaggaccccctcgtttcgcaacctttc

1 R G S T M S T G G D F G N P L R K F K L V F L G E Q S V G K

BclI MfeI  
541 acatctttgatcaccagattcatgtatgacagttttgacaacacctatcaggcaacaattggcattgactttttatcaaaaactatgtac  
630 tgtgaaaactagtggtctaagtacatactgtcaaaactgtttggatagtcggttgtaaccgtaactgaaaaatagtttttgatacatg

1 T S L I T R F M Y D S F D N T Y Q A T I G I D F L S K T M Y

BspMI~ BsrBI~  
631 ttggaggatcgaacagtagcattgcaattatgggacacagcaggtaagagcggttcaggagcttgattcctagctacattcgtgactcc  
720 aacctcctagcttctgcatgctaacttaataacctgtgctgctcagttctcgcaagtcctcgaactaaggatcgatgtaagcactgagg

1 L E D R T V R L Q L W D T A G Q E R F R S L I P S Y I R D S

EcoRV HpaI  
721 actgtggcagttgtgtttatgatatcacaaatgttaactcattccagcaaaactcaaaagtgattgatgatgtcagaacagaaagagga  
810 tgacaccgtcaacaacaaataactatagtgtttacaattgagtaaggtcgtttgatgtttcacctaactaactacagcttctgtctttctct

1 T V A V V V Y D I T N V N S F Q Q T T K W I D D V R T E R G

BglII MfeI BseRI  
811 agtgatggttatcatcatgctagtaggaaataaaacagatcttctgtagaagaggcaagtgtaattgaggagggagagagaaagccaaa  
900 tcaactacaatagtagtagcatcctttatgttctagaacgactgttctccggttcacaggttaactcctccctctctcctttcggttt

1 S D V I I M L V G N K T D L A D K R Q V S I E E G E R K A K

SpeI BciVI~ BcgI~ BmgBI~ BcgI FallI  
901 gagctgaatggttatgtttattgaaactagtgcaaaagctggatacaatgtaagcagctctttcgacgtgtagcagcagctttgcccggga  
990 ctgcgacttacaatacaaaataactttgatcacggttttcgaactatgttacatttcgctcgagaagctgcacatcgtcgtcgaacggccct

1 E L N V M F I E T S A K A G Y N V K Q L F R R V A A A L P G

Bsu36I

991 atggaaagcacacaggacagaagcagagaagatatgattgacataaaactggaaaagcctcaggagcaaccagtcagtgaaggaggctgt  
 1080 tacctttcgtgtgtcctgtctctcgtctctctataactgtatctttgaccttttcggagtcctcgttggtcagtcacttctcctcgaca  
 1 M E S T Q D R S R E D M I D I K L E K P Q E Q P V S E G G C

XhoI                    ApaI DraI  
 PspXI XbaI   PspOMI   PmeI  
 \        \        \        \        \

1081 tcctgctaactcgagtctagagggcccggtttaaac .....  
 1170 aggacgattgagctcagatctcccgggcaaatttg  
 1 S C \* L E S R G P V \*