

Data S1. Rab1a Genomic DNA sequence is shown below. The DNA sequence for the exons (Ex) is highlighted in yellow. The exon-intron conjugation GT/AG rule is underlined. The ! symbol indicates the position of an mRNA splicing site or genomic DNA insertion site. The sequences to which genotyping primers bind are also underlined. The translation start codon ATG is highlighted in red and is underlined.

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1  GTAGACCAGG CGAGCCTTGA ACTCAGAAAT CTACCTGCCT CTGCCTCCCA AGTGCTGGGA
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 43621 AGTCCCTCTT TAGTACTCTG ACATGAGGTT GAGGTCTAAG TAGAGGGCCG GCCAGAGTTC
 43681 TCTATGCAAC CAATCAGTCT CTGTCAAGGT GAATCTTGC CTATTATTAT CTGCCTTCAG
 43741 TCTCATCCTA CAAGGTGGTC TGAGAAATTG CTAGAACTGT GCTGGCACCA GGCTTCAGTG
 43801 CTTTTCTTTT CCGAGCATGA GATTCTTGA GGATCTTTCA ATTCCTGGG TTCTGATGTT
 43861 CCCAGTAGTG GCATAGCTAA AGGGGAAACT AAAGTTTCTC TTTGAAGCAT TCTCATTTCT
 43921 GGACCAGGAA GTTGGTTCTG TAGGTAAAGA CTTGTCCATC AAAGTTGACA ACTTGAGTTA
 43981 ATTTTCTAGA ATGTGCATGG TAGAGAGGAC TAACTCCTCT CCTGCAAGGT GTCCTCTGAC
 44041 CTCCATCTGG TGTGTGCATG AACACACACG GTTAATGTAA AAAGAAAAGT GGATGTAGTA
 44101 ATGTCTCATG CCTTTCATCT CAGTTCCTAG GAGTCTGGAT GTATCTCTCT GAGTTGGAAA
 44161 ACAGCCTGAT CTACATAGCA GGTTCAGGA CATCACGAGA TACATAGTGA TAAAAACAA
 44221 AGCTAAATCA AAACAGCACC AACAAAAAG CTTTAGAAAA ATTTCTCTTT CATTTTAGGC
 44281 ATTATGGTTA CACTGATGAA TAGATGTATA ATCAGAGTCT AGCAAGTTTC CCTCCTACCC
 44341 TTTTGTATGA GGTCTTAACC CTGTAGCTTA GGCTGGCCTG GAGCTCTCCA TGTAGATTAG
 44401 CAGTCTTACC TTGGCCCCCT AGAGGCCTGT CACCATGACG GGCTTCAAGA GCCAACATGA
 44461 CCCCTGAGTG CCCAGCTTGG GGATTTAATA TGGAGTGTGT ATGCTAGGTG AGCTCTCTAT
 44521 CCATAGCTAT TATCTCTAGC TTCAGAACCT ACTTGTCAGG TCTCTGAAGA CTTACTTCAA
 44581 TAAGCTTAAA ATGTTGGTAA CCTTTTATT ATGTTTCTAG AGTTCAGCAT TCAAAATACA
 44641 GGCTTTTCTA TGCTTTAAAT ATATATATGG GTGTTTGGC TGCATGTATG TGTACCATGT
 44701 GATGCAGTGC CTTGGAAGGC CAGAAGAGG CATCAGAACT CCTGGGGCTG AATGGTGTTC
 44761 CTGGGAGTAT TGGGACTCAA ACCTGGGTCC TCTGCCAGAG AAGCCAGTGC TCTTCACCAT
 44821 CCAGCCATAC GAGGGGACAT TAGACCTAGA TCCAGGAAAG GATCATAGAA ATTATTTTCT
 44881 TGAGAGGGTA CTCTGCATAG TGAGTCATTT GGTTTTAGAA TTTGAAAGAG AGACTTTTGT
 44941 TGCTAAGAGA GGGTCTCATG TATTCTAGGC TTGCCTACAA CTCATGATTT TCCAGTTTCT
 45001 ACCTTTTCTG TGCTTGCTGA GATTATAGGA ATGGGCCACA AAGCCAGGAG GGGCTAATTT
 45061 TACTGGGTGG AACACAACCT TCTCCTGTCT GATAGGGTAG GGGGCTGGGA TTTGATTAGC
 45121 ATTTAAGTCT CTTCAGTCCC CTAAAAATAG GAATCATATG AGATTCCTAT TTTTTTTTCT
 45181 TTGAAGAGG AAGTCCACTC ATCAGAGCGA CCATGGTGGC ATTTGGCTACT TCACTTGCCT
 45241 GAGTCACATG TTCAGCTGTG TATCGAGGCT GCTATTGGCC TCTTCAGGAC CTGGAGTCTT

45301 CATAGCAAGC CGCTGCTTAC TAGCTTTGCT TTCTTGTA TAGA ACTTACAATA CAACATGCTT
 45361 TTTATTAATG TGGTTTTCCT TCTCTTTTTG **CAGTGATTAT TTATTCAAGT TACTTCTGAT**
 45421 **TGGCGATTCT** GGGGTTGGAA AGTCCTGCCT TCTCCTTAGG TTTGCA**GGTAA** GTTGAAATTA
 45481 AAATACTTTT TACAAATAAT GGTGTGCTTA GCTATACAAA TAATGCAGTG TTTTTTGTTT
 45541 GTTTTGTTTT AGTTAGACAA AAAAAATCAA ACAATTTTAT ATAGTTAATT CTTTCAGAGT
 45601 TTATATATCA AAGTGCCTAA GTGCTCCCAA ATAATGCACC CCACCCCCAG TGGTATCTTG
 45661 GACTGTTHAA TGTGTTTTT AAAAGAAATT CAAGGGAAAG CTGGGTGTGG TAGTGCATGC
 45721 CTGTAATCTT TCCACTTGGG AGGTGAAGGA GGGACATCAC TTTGGGCTTG AAGTCAGTTA
 45781 AGAAAAAAA AAAGAAAGAA AGAGAAAGAA AAGAAAAAGC CAAGAAAGAA ATGCAGTGCA
 45841 GCATGATGGT AACGTTTATA TCTAGTGCTC TTTGTAGACT CTGAGATTCC CATACAGGGG
 45901 AGAGCAAGGT GCAATGCTTG GCTTGTATTG AAAGTGACCT GAAAAGAAAG ACTCAGCCAT
 45961 ATTGTAATTG ACTAAACATT CCTTTAACTT TAAATTTTAG CTACTCATTT CATAAGCCAC
 46021 TTGGGGCTAG GGGCTATCAT ATTGCCTGGT AGTTTATGTC ATAGTTGAGG GCCATCATCG
 46081 CAGAATTATC TTAGATGTG CCTTACAGTT CTGTGATGAT CAGTCATCCA TTCTGGATTT
 46141 TTTTTTTTTT TTTTTTAAAA AGAAGAAAAA AGCCGGGCGT GGTGGTGCAC GCCTTTAATC
 46201 CCAGCACTCA AGAGGCAGAG ACAGACGGAT TTCTGAGTTC GAGGCCAGCC TGGTCTACAG
 46261 AGTGAGCTCC AGGACAGCCA GGGCCACACA GAGAAACCCT GTCTCAAACA AACAAAAAGA
 46321 AGAAAGATTT ATTTATTTTT ATGTGTGATT GCTCTAACTG CACGTGCACC ATTGTGCCAG
 46381 AAGAGGGCAT TAGATCCTAT TATAAAATGG TTGTCAGCCA CTATGTGGTT GCTGGAAGTT
 46441 GAACTCAGGA CCTCTAGAAA AGCAGCCAGG CTCTTAACCA CTGAGCCATC TCTCCAGCCC
 46501 CAATTTTGAA ATTCTTTTTT TAATGAAAGC TTCTTTTAAA ATAGTTACTT ATTCCATATG
 46561 GTGGCACATA CCTTTAATCC AGCACTTGGG AGGCAAAGGT AGGTGGATCT CTGTGAGATT
 46621 GAGATCACCC TGGTCTACAG AGAGAATTCA GGACAGCCTG GGCTACACAG AGAAAAACCC
 46681 TGTCTCCAAA CACACACACA CACACACACA CACACACACA CACACACACA CACAACCACT
 46741 TACTTGTTTT TCTGTGTATG TTTACATGGG GTGGGAGCAC AGACAAGCAC AGTAGCAGGC
 46801 TGAAGGTCAG AAGACTGTAG GAGTTGATTC CCTCCTTGTA CTTTTTGGGT CCCGGGGCTA
 46861 AACTCAATGA TTGTAGGCAA TTTTACTCTC AGAGCCATTT CAGGGGCCCT CATGAATTCT
 46921 TTCATTTGAA ATAGAGCCTC ACTGAGTATC CCTGGCTGGC CTTTAATTTT CTAGACCAGC
 46981 ATGGCCTCAG ATTTTGTAGT ACCTTTCTGT CCCAGACCCC CAAGTACTGA GATTACTGGC
 47041 AAGTTACAAA AAAGAAACAC TGGTTAAAAA AAAAAAATT GACAAGCAAC ATGATAATGA
 47101 CCCCCAATG GAAACTACCT AATTCTTTCA CAAACAGAAT GT**ACCA**ATGG GCTTGTATTC
 47161 AGCTGCCAAA AAGGACTTAG TTTAAAAA AAAAAAATA AAAAGATGTG GCTGGTGAAA
 47221 TGAGTCAGTA GGTAAATGCT CTGCTGCCAA GCCTGATAAC CTGAGCTCTG TCCCCAGAAC
 47281 TAACAGGGTG GAAGGAGAAA GCTGACTATC AAAGACTGTC CTATGACCTC CGCATGTACA
 47341 AACTAGGCAT GCACATGTCT ATACACATAC ACACAATAAT TTTTTTGAGA CAGGGTCTCA
 47401 CTATGTACCC TTTGACGAAC TCTCTATTAT AGTCCAGGCT GACCTTAAAT TCATAGAGAT

Exon II

!: mRNA splicing site

!: genomic DNA
insertion site

47461 CTGCCTATCC CTGCCTCCTG AGTGCTGGGA TTAAAAGTGT GTGCCATCAT GCCCAACTTA
 47521 ATAAAGGAAT ATATTTAAAA AAAAACTAA CTTATTAATC TGAGTAAGAT GTGGTGTGCC
 47581 TGTAATCTCA GTATTGCAAA GTCTGAGTAG GAGGCTCATG TTTGAGCACA AGCTAGCAGC
 47641 AAGATTTTCA TGTCTGTGAA ATGTTCTCTA GGAAAGCTCC ATGGATAGTA AACAGTTTGG
 47701 TTGCCATGAT CCGAAACAGA AAAGTATAAA CTGCTAATGA GTTCTTTTG GGATAGTGAA
 47761 ATATTCTGGA ATTAAACAAT GATTGTAAAA CTTTATGTGT TTAATAAAAA CCACTGAATT
 47821 GCACACTAAA TGAGGGATCC TTACATGCAT TAAATTTCAA TTTAAAAACT CAACCAGGAT
 47881 GTAAACAGA CTCTGGAATA CATCCCTAAG AGGAAAATGA AGTGAACATT GTTTTGTGGT
 47941 TAATGAATTG GATATATGAA GTACAAGAAC TTTACTGGTT GGCGGTTAGG AGAACTCACG
 48001 GGGAGTTGGA GAGCTCTGAC AATTACAAAA TCCTTTCCTG ACACATGTAA AGAATTTACC
 48061 AAGAGATGTT GTCTTTGTGA GGGTTTCCAT TGCTGTGAAC AGACACCATG ACCAAGGCAA
 48121 TTCTTATAAG GACAACATTT AATTGGGGTT GGCTTACAGG TTTAGAGGTT CAGTCCGTGA
 48181 TCATCAAGAC GGGAACATGG TAACATCCAG GCAGACATGG TGCAGGAGGA GCTGAGAGTT
 48241 CTACATCTTC ATCTGAAGGC TGCTAGCAGA ATACTGGCTT GCAGGCAGCT AGGATGAGGG
 48301 TCTTAGAGCC TACACCCACA GTGATACACC TAGTTCAGCA GGGCCACACC TTCTAATAGC
 48361 ACCACTCCCT GGGCTGAGCA TACACAAACC ATTACAGATG TATGAAAACA AAAAAAGAAC
 48421 ACTTGAGAAA TATCTCAAAG CAAAAAGAAA CTTTCTAACT AGTTGGTATT TTGTAGTGAG
 48481 ATAATTACCC GATATTAAAA ACTTTGTTTA TAATGCAAGT AAACCTTAAC AAATTGTCTC
 48541 TGTAAACAT TGATTTTATT AACTATTCCC CCTCAGGATG ATACGTATAC GGAAAGCTAC
 48601 ATCAGCACAA TTGGTGTGGA TTTCAAGATA CGAACTATAG AGTTAGATGG GAAAACAATC
 48661 AAGCTACAGA TAGTAAGTGG TCTTGAAAT TATTTTGGTA AATGTACAGT GTATATGTAT
 48721 TTAGTATGCT AACAAAGTTG AATATAAAGT TTCTTAAGAG TCATGCATTG ATACAGATTT
 48781 TAGACCAAAA GGCATTTCCC AGGCTTGCGT TTCTCATTGA AATTCCTTCT TCCTTCCTCT
 48841 TGTGTATGCT CTGTTTCGAG GGTGGAACCC AAGGTCTCCC ATGTGCTAAG TCTGCACTGT
 48901 TTACATGGAG CTGCATCGCA GGTCCCCTAT GTTGAAATTC TGTGTGTAAG GCAGACTTAA
 48961 TTATTAATTA AAGCAGACTC TACTTAACAA TCACATTAAG TCAGCTTTTC TCCTATTGAG
 49021 TGAGAAGTCT GAGCTTTCCT TGTCTGACAG GGAGTGTTC TGGCATCTT GTGTGTGTCC
 49081 TACTCTGCTG AGTGTGTGCA TGTTAGAAGG GCCTGGGGGG CCTCTCTGCT TATGCTTTAA
 49141 AGATAGCTCT TTCGTTCTGT GCGGTTTCTC CTTTCTTAAG ATTATATATT CCAACTGTAG
 49201 AAAAACAGAA TTTATTGGAA GGAAATCTT TATATGCTTG TTTTACTCTC TAAAAAAGA
 49261 AAAGAAAAGG ATGCTCAGAG AATTAGAACA AAGATGGAGA ACCATAGCTC TCCATCTTCA
 49321 ACATGTGTCC CTGCGCTATC TTAAGTACCT TATCCATCCT TCACTCCAC CTCCAATTGA
 49381 ATGCTTCTAT GTCTTTAGTA TGAGTCTAGG CACCATGTCT GTGATCTTAA AGAAGAAAAA
 49441 AGTAATCCTG GGGTCAGCAT GATAGCTCAG CAGATGCTTG ATCAGCTAAG GTTGATGATC
 49501 TGAGTTCGAG TCCAGGACC TGTTTGTCTT ATGTGGAGAG AAATAACTTC CTGCAAGTTG
 49561 TCCTTTGACC TCTGTGTGCG CGTCATGGCA AGGTTGTTCT AAGTGAGAAT GATCACACTC

Exon III

49621 ACATAGACAC AGACACACAA ATAGAGCGTG TACGCACACA CAGTTAATAG GTTTTTGT
 49681 TGTTTTAAGT TGAGTTTGTAG TTTTAAACAA TCAGTATGTT ATAGGCAGGC TTAGTTAAAG
 49741 GAACACTGAA GGCTGACCAT TGCTCTTTTC ATGATATTGG GTATTGCTCT GTGCTGAAGT
 49801 CCTGAATTTT GAGTCAAAAT TATTATTTTG GTTTTGATAT TCTTTCCTTT CTCTTCTCT
 49861 TGGGTTTTTG AGGCTGGTTT CTCTGTGTAT CCCTGGCTGT TCTGGAGCTC ACTTTGTGAG
 49921 ATCCGCTTGC CTCCGCCTCT TCTGTGCTGG TGTTCTGGGG GATGCCAAGC CTTTGTATTT
 49981 GACTTAGAAA AATAACAAGT TTGCTAAGCT CCAGCCCTAG CACTGTCTCC TGGCTTACTA
 50041 GTTTATGGGT TAGTTTTGAG GATCACATGG CTCTTGCTAT TTGTCTACCT TTATGACCTT
 50101 GGAGACAGCA GATCAGTGGT TTCTGTGATA TGCTATGTTG TGATACACTA TTGTAGAAAA
 50161 GACCCACTCA AGCCTGCAGC CTAGGTATCA ATAGCATATG TGGTCATTAA TCTCTACAGG
 50221 ATATTTGTAT ATTTGAAATA TTTTAATTTT GTTACTTCCT TTGTCTGGAA AGGATCTTTC
 50281 AGGTACTCT CAGTTTCATC TTCAACAGGA ATTTTCTTTT CTTATCTGGT GCTGTTACGT
 50341 AATCATATTG AGGAAATTCA CCATTTTCAA GGGTAGCTAC TTTCAGTTTA TCCATTCTTT
 50401 TTTTTTTTTT TTTTTTTTTT TTTTGGTTTT TTAAGACAAG GTTCTCTGT GTAGCCCTGG
 50461 CTGTCCCGGA ACTCACTTTG TAGACCAGGC TGGCCTCGAA CTCAGAAATC CACCTGCCTC
 50521 TGCTCCCAA GTGCTGGGAT TAAAGGCGTG CGCCACCATG CCCGGCTATC CATTCTTTAT
 50581 ATTGGGCTGG AGCCAGTGTC CTTTAACTTC TATGGAATTT CTCTGCAGTT TGAAGCTGTA
 50641 TGAATCAGGT TAGTTATTGT TCTGCTGGCA TCCAACCTTC ATGTTGATGT GATTATACCC
 50701 TTCTTCTTGC TCAGTTGATC ATTCCTTTTT GGAGTTGTTT TTAGAAACTT TTAAATTCGG
 50761 GTTAGTCTTG CATTTTCAAG TACCTTTTAT AAAAAGGGAT TCCTAAAATA TAGTACAATA
 50821 CGTATGTGAG ACAAACCTTT CTGAATTTCT TAAAAATTTT CTCCCTTTGG GTGTGAAGAG
 50881 GTGGCTCTGT GCACTGGGGG GGGGTTTAAT TTCCCAGCAC TCATGCTGTA CACACCATAA
 50941 TTTCAACCCC AATAAATCCC ATGCCTTCTA TATGCTTTTG TGGCTAACAG GCATGTACTT
 51001 AGTGCACAGA CATAATGCA GGCAAAGCAC TCATACACAT AAAAAATAAA TAAAATTTCT
 51061 CTCTTGACT TCAGGGATTC AATGCTTATT GTTAATCTAC CAAAGACTAT AAAGGAATGG
 51121 GTGAGTTTGC ATTAACTACA TCCCAGTCG TCTGCACTTG AAGATTTAGG GTTGCTTGTC
 51181 TTTAATTTGG GGGTTGTGTG TATAAAGGGT ATAAATGGCT GCAGATATGG TCGGGTAGAT
 51241 AAAGTACTTG TAAATGTGAG GACCAGAATT CACCCATGAA AATGCTGTGT AGCTGTGGGG
 51301 ACCCACCTGC AATCCATGGA AGGCAGAGGC ACTGGGTTAC AGGAGCTCTG TATTCACCGA
 51361 GAGATCTTGC CTCAGTAAGG TGGAGTGTA TCCAGGAAGA CTTTAGCCTT AGGTCTCTAT
 51421 ATACACATAC TGTACATACA CACAAAAAGA AAATGTGTCT GTCTCTCTCT CTCTGTGTGT
 51481 GTGTGTGTGT GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA
 51541 GAATGAGAAT ATTCCATGAA TTGGTGTTAT AAAAATTTAA ATGCAAAATT GTGTGTCTAG
 51601 CCCATTGCAT TTCAACTTGA TGGGCTGTGT TTTTTTTTCT CCCAAGTACT CTTAAGTCTT
 51661 TTCCTTTCAT GTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTAAAGATTT ATTTATTTAT
 51721 TACATGTAAG TACACTGTAG CTGTCTTCAG AACTCCAGA AGAGGGCGTC AGATCAGATC

51781 TTGTTACAGA TGGTTGTGAG CCACCATGTG GTTGCTGGGA TTTGAACTTC AGACCTTCGG
 51841 AAGAGCAGTC GGGTGCTCTT ACCCACTGAG CCATCTCACC AGCCCTTCCT TTCATGTTTT
 51901 ATTGTTTAGT CATGATGGCC AGGTCTTCAC TGATTTTAT GTTTGAAAGA GGGTCTCTCA
 51961 CTATATAGCC CTAGTTGTCC TGGAACTTGC TGTATAGATA AGGACAGTCT TGAACCCACA
 52021 GAGTTCCACC CCTGCTTTTG CCTCCTCAGT GCAGGGACTA TAGGCACTAA ACACCATATT
 52081 TGGCCAGAGG ACAACTTTTT ATAGTTTCTT CCTTCTATCA TGGGTTCCTAG GGATTGACTT
 52141 CTGGTTGTCA GGTTCGCATA GCTTTTGCTG GCCTATCTTG CTTGCTTTTC CCCATTAAAA
 52201 AATATTTTTTA TTAAGTGAAG TGTATATGAA TGCATGTGCC CAAAGAAACC AGAGGCACTG
 52261 GGTGCCTTTG AAAGTAGAGT TACAAGCATT GGTAACCAC TTAGTATGGG TCCTGGGAAT
 52321 TGAAGCTCAGG TTCTCTAGAA GACCAATATA TCCTCTTAAC CATTAAGCCA TCTCTCCATG
 52381 CCCCTTCTCC GCTTAGAAAA ATGAGTTTTA TTTTAAAGGT GTTTAGAAAC ATTTTCCTTA
 52441 CGTTATTTTT GCTGAGCCTG AGATAGCACC TCCTTGTTAC CCTAGGGCAT GGCCGAGCCT
 52501 GGTCTGTGAC AAATACTGCA GCCATGAAGT AAGCTCTGGG CTCTGGACTC TATATTTTTT
 52561 ACCAACAGCC TAGAATAGCC TAGCATAGCT TATGTTCTCA AAGAATTTAG AATTTTGCTA
 52621 TTAGTACTAC CTGCTAAACC GTAGGCATTA TCTTCTCTTC TGGATTTTTA ACATATTGA
 52681 TACCTGCAAT GCAATTTAAT AATGTAAGCA TTAAATACTG CAATTTAATA ATGTAAGCAT
 52741 TAAATACTGC TGGCATCTCA AATCCTAATA ATCTACAATT TTCTCCTGTA CTTTCTCCCA
 52801 AGTATGTTTT AATGGAATTG TTTGCCTTCT CTGATTGTTT TCTATAGTGG GACACAGCAG
 52861 GCCAGGAAAG ATTTTCGAACA ATCACTTCCA GTTATTACAG AGGAGCCCAT GGCATCATAG
 52921 TTGTGTATGA TGTGACAGAT CAGGTAAGTT TCTAGAGAAT GTTACATGTT ACCAACAAAG
 52981 TAGAAAGTAG TGTATGTGTG TGGATTTTGA CACAATCTCA CTGTGTAGTT CTGGCTGACC
 53041 TGAAGTCACT ATGTGGTCAG GCTGCCCTTG AATGCTTTTG AACAGCCCTG AAAGTTTTGA
 53101 CTAGAAATTT ATTTTACTA ATCGAGAAAT AAAACAACCT CATTTTCTTA TAGCAAATGT
 53161 TAAATCTGAA CTATCTGAAT TATATTGTTA ATTTGGAGAT AAATTAAGAG ATTTACCATA
 53221 CAAGCAAAAG ATAAGCGAAT ATGAATAGGG AAAGAAAATG CTACATTAGC ATGATGTCAT
 53281 GTACCTTCACT TCACTTGGGA GGCTGAAACA GGAGCTCAGG AGATTGAGAC CTGTCTAGGC
 53341 AGCAGAGCAA AACCTCATCT CAGTAAAGCA AACACCCAAA GCAGGCATAA CTGGTTAATT
 53401 TTAAATATGT AATCTATTAC CATAATTGT TTGTTCTTCA AGACAAGTTT CCCTGTGATC
 53461 TTGGCTGTTT ATAGACAAAC CTGACCTTGG GCTCAAAGAT CTGCCTGCCT CTGTCCCTTA
 53521 AGCACTGGAA CTAAAGGCAT TCACTACCAT GCCCAGCATA TTTTATGTG AAAAAACAA
 53581 GGAAATTTGT CACCTGTTTT TTTATAAGAT TTCTCTCCG CATCCACAT CTTGTTTGTA
 53641 GTGGGGTTTA AGATCAGGGC TTTCTGTATG CCCAGCAAAT TGTGAGCACT GAGGTGCACC
 53701 TAGGCCAAAT AATAGTAGCG ATACTGTTGT TTTTCATAAC CAGTTTTTTG TTTGTTTGT
 53761 TTTGAGTCAG GATCTCACAG TGTAGTCTG GCTGGCCTGG AGCTCAAGAG CTCAGTCTGT
 53821 ATCTGTCTCC CAAGTACTGG AATTAAAGCT GTGCCACTGC ACCCAGCTTT TATTATTTA
 53881 ACAGGATTTT ACTGTTTCAG AAAGTAGGTC TTGACAATAT TTTAAATTT CAATTTAAAA

Exon IV

53941 TTGGGCTTGC CTGTCATTAA ACTTCAACTG TTTCCCCTTC CAAATAAGCT CTTTTCACCT
 54001 CAGGCCTTTG AGTCTTTCTT ATCATTGACG GGGTCATTGA CGGGGTGTAT ACCTCAAGTT
 54061 AGTTGATTTT TTTCCCTAGT TAGAGCAGCA GTGGCCTCGA GCAACTGCAT CACCATTCTT
 54121 CTCTCCCTAG **GAGTCCTTCA ATAACGTTAA ACAGTGGCTG CAGGAGATAG ATCGCTACGC**
 54181 **CAGTGAAAAT GTCAACAAGT TGTGCTAGG GAACAAATGT GACCTGACCA CAAAGAAAGT**
 54241 **AGTAGACTAC ACAACAGCAA AGGTATGTAT** GAGGTTTGAC TTTGACACTG AATTTAATTA
 54301 TGGGGACTGC CTCACCTGT AAAAGCCAGT GAGCTTAGTC CCCCATTTCC ATTTCAAGAG
 54361 ACTAAGTCAG AAGGATTTTC CATTGTTCAC TGTGCCTTAT TATTCTCTCA **GGAATTTGCA**
 54421 **GATTCCCTTG GAATTCCATT TTTGGAAACC AGTGCTAAGA ACGCAACGAA TGTAAGACAG**
 54481 **TCTTTCATGA CGATGGCAGC TGAGATTAAA AAGCGAATGG GTCCTGGAGC TACAGCTGGT**
 54541 **GGTGCCGAGA AGTCCAATGT TAAAATCCAG AGCACTCCAG TCAAGCAGTC AGGTGGAGGC**
 54601 **TGCTGC****TAAA** ATCTGCCTCC GTCCTTTTCT CACAGCAATG AATTCGCAAT CTGAACCCAA
 54661 GTGAAAAAAC AAAATTGCCT GAATTGTACT GTATGTAGCT GCACTACAAC AGATTCTTAC
 54721 CGTTTCCACA AGGTCAGAGA TTGTAAATGG TCAATACTGA CTTTTTTTTT TATTCCCTTG
 54781 ACTCAAGACC GCTAACTTCA TTTTCAGAAC TGTTTAAAC CTTTGTGTGC TGGTTTATAA
 54841 AATAATGTGT GTAATCCTTG TTGCTTTCCT GATACCAGAT CGTTTCCCGT GGTGGTTAG
 54901 AATATATTTT GTTTTGATGT TTATATTGGC ATGTTTAGAT GTTGGGTTTA GTCTTCTGAA
 54961 GATGAAGTTC AGCCATTTTG TATCACACAG CACAACCAAGT GTCTGTCAGT TTCCACGCAT
 55021 AAAGTTTAGT GAGACGTTAT ATGTAAGATC TGATTGCTA GTTCTTCCTG GTAGAGTTAT
 55081 AAATGGAAAG ATTACACTAT CTGATTAATA GTTCTTCAT ACTCTGCATA TAATTTGTGG
 55141 CTGCAGAATA TTGTAATTTG TTGCACACTA TGTAACAAAA CTGAAGATAT GTTTAATAAA
 55201 TATTGTACTT ATTGGAAGTA ATATCAAAC GTATGGTGAT AAGTATTGTT TTAATTCCTA
 55261 TGATTAAAGG GAAATAGAGC TTTGCATTCT ACTCAGCAGC CACGTGTGTG CAGCAAGGGC
 55321 ACTGTAGACC TATCTTAATA GCACAGCATC CAGGGTTTGC TTTCTAGTAA TAGGTCTGAT
 55381 GAGTGACCTA GAGAAGCTTT TGTGCTGTGT AGAGACTTCA CCACCTTCAT TGGTTCAAGG
 55441 AACTCAAAC CTAGTGCTTC ATCTCCAGCC CAGGCCACCT GAAGTGGCTT CACCAGCAAC
 55501 CCTTTTTTCC CTCATCTGTG GTAGAGATGG AGAGCAGCCC ATGCTTCCTC CCAGGCAGTG
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 55621 TTCTTTTTTC TTTTGGCTA TTGGAGATAG GGTTCCTCTG TGTATCCCTG GCTGTCCTGG
 55681 AACTCTCTCT GTAGACCAGG CTGGCCTCGA ACTCAGGGAT CCACCTAGCT CTGTCTCTGA
 55741 GTGCTGAGAC TGAAGGTGTG CGCCGCCACG CCTGGCTTTT TTCCCTTTC TTTTTTGAGA
 55801 CAGGGTCTTA CTATGTAGCC CTGGCTAGCC TGGAACCTAA GTATGTACAA CAGGCTGCCT
 55861 CCCCTCCCC CATTACCTG CCTTTTCCTC AAAAGTGCTG GGATTAAATG ATGTCCCAGA
 55921 CTGCACCTAT TTTTGTAGAC AATGTCTCAT ATAGCTCAAG AGGCCTCAAA TTCACCTGTA
 55981 ACCAAGGATG CCCTTGAAC CTGATCCTC CTGCCTCCAC TTCCAGGTGT CAACTTTTAT
 56041 CTTTCCAATT GTATGAATCA TGTGCTGGA GAGTTTAAGC ATTAGAATAG AAAGCAGGAA

Exon V

Exon VI

56101 ATGTGATTGC CCTAATTGTA GAAATTCTAT CTCCCCCCCC CCCCAAATTA AATGAAAACA
56161 TGAACGCTAG ATGGGAATGA TGGGAGAAAT AATATATTTA TTTCGGTGAA ATTTTGCATG
56221 TGTGAAAGTT TGTTAACTAG GATCTTCGAA ATCCTAGACT TTGCTTTTGT CTTACTGTGG
56281 GAAACAAAGT CTCTTGCAGA CACTAGCATT TTAAGGTGAC AAAGGTCAGA GATTGTTTCC
56341 TTTGGTTTAA GGAGCAGCCA AGCATTCTTC AATTGGGGGC TAGGGTAGGG TATGGCTGTT
56401 GATAACACAT TTTATCATGG GGTCTTTAAT GATAAAATAT TAAACTAAAA ATAAGCCAGA
56461 AATTACAGGT TTTATTTTCA CTAAACAGAC AATTGAAATA CATGGTACAA AAATAAGTGG
56521 TAAGATTATT GTAAATTGAA AAATGGACAG AATAAATATT CAATTTAATT TTCCATCTAT
56581 GAGAATTTCA CAATAAAATC ATAGTTTACT TTGTATTATA GATGCGCTTG TTGGGTCTAT
56641 TCATCCTTAT ATATAAAAAG GTAACGGAA ACTCCTCAAG TCACCAGGAA TTGGGTCAAT
56701 ATCTTTTATT TTTTGTAGC TGTTGGTTTT TTGTCAATAT AAAGGGAGAA AGAGTTCATA
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56821 ACTTTAATTT TACACAGCAA AAGTTGTTC AACTGTCAGC TTATTCTGTT AGCAGAAAAAC
56881 ATTACATGAA TTTATTTTAA ATATAAACAT ATTTACAGAC TAAAATTCTA GTGCTCTTTC
56941 CCCACTGGCA GCAAGATTAG GGCTTACCAG ACTATTTTCA CATGCTTCAC TATTTGGTTT
57001 CATGTATGTG CTGATAATTG CTGTTTGTAG GTGGGAAATA ACCCATTTTT CAAGTATAAA
57061 TATTTCAAGA CTCTTGGGGG CTCTAATATG TTCACATAAT AGAAAAGTGT CCCTTGATAT
57121 ATTTTAAAAA TGACTGCCAT AGAGAAACGT GCATAATGAA AAGCACTCTC TCAGTTGGCC
57181 ACGGCTCCCC TAAGGTCCAG TGCTCTTTTC GACAGTTCCC TCAGGCTCAT ATTTGGCCAC
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57421 TTACAGATGC AAATGGTAGT GACATCCAAG GCTGAGACAT TTTAGCTCAA ACATAACACA
57481 CACCAGAAGA TAAACAACA GTTGTATTGA TATTCCTAAA TGGCATTAC AGCCAAGGTC
57541 AGAGTTACAC CCTTTAGTTA CAAAAGTCT ATCTTCTTGT TACAAAGAGG ATGAGCAGAA
57601 GCATAGAGCA TGTTTCGGCC AGTATTGTGT TGGGAAACCA TGCTCACTGT CAGTTGAATC
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57721 GGCTAGCTCT ATGAGTCTCC TGACTTTCAT GCTTGACAAA TGGCTTTAAT ACCTGAGGGC
57781 TCCTTTAACA TATTGGTGGG AAGGCAGTTT AAATCCACAT GAGAGGTAAG ATGTGCTTTT
57841 GACCAATTCT AGGTTTATA GGATATTTTA CATTTAACTT AAATTATTTG CTAGAAAAGT
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//

Data S2. The pGT0pfs vector sequence is shown below. The vector DNA sequence fused with *Rab1a* is highlighted in yellow. The coding DNA sequence for LacZ is highlighted in red. The ! symbol indicates the position of an mRNA splicing site or genomic DNA connection site. The sequences to which genotyping primers bind are also underlined.

```

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! : genomic DNA connection site

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! : mRNA
splicing site

LacZ

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