

### ***ARHGEF***

cDNA CTTTGCTCTTTGCTCGCTGTTTCATTCTCTCATCTTCCTGTTTCTTTGATTGGACACTGACCCCTTGTGTCTGACCCAGAAATACTTTTGTATGGACAACCTGAGGATTTCTCTAAGGGTAAATGTTTTGTT  
DNA CTTTGCTCTTTGCTCGCTGTTTCATTCTCTCATCTTCCTGTTTCTTTGATTGGACACTGACCCCTTGTGTCTGACCCAGAAATACTTTTGTATGGACAACCTGAGGATTTCTCTAAGGGTAAATGTTTTGTT

cDNA CTGCTGTTCTTTCTTAGAACCACAGTAGGAAGGGTCTCCATGCCTGATTTTTCCAACCTCCATCCTCAAACCTCTCAGGGTCTTTTACTACCTGTGGTGATACCATAGACCCTTCCATGTCTCTGCATCTATTTC  
DNA CTGCTGTTCTTTCTTAGAACCACAGTAGGAAGGGTCTCCATGCCTGATTTTTCCAACCTCCATCCTCAAACCTCTCAGGGTCTTTTACTACCTGTGGTGATACCATAGACCCTTCCATGTCTCTGCATCTATTTC

cDNA TGCATTGCTTGCCACCACTGGGGTTCCTCAGAAACAGCCTGTTGCCTCTGTGGCTGTCTCTTAGTTGGTGGTGATGGGGGACCAAGCTGGAGAAAGTGAATTGGGTTTGTGAAAGCCAAAAGTGAAGGAGTCT  
DNA TGCATTGCTTGCCACCACTGGGGTTCCTCAGAAACAGCCTGTTGCCTCTGTGGCTGTCTCTTAGTTGGTGGTGATGGGGGACCAAGCTGGAGAAAGTGAATTGGGTTTGTGAAAGCCAAAAGTGAAGGAGTCT

cDNA CTCTTGAATTTCTCGACTTTGTAGCTTTGCAACTTCTCTTCGCTTCTACC  
DNA CTCTTGAATTTCTCGACTTTGTAGCTTTGCAACTTCTCTTCGCTTCTACC

### ***POLE2***

cDNA AGCAGTCGATTTGTGTTTGTTCCTGGCTCTGAAGACCCAGGTCCAGGTTCATATTTCCA-----  
DNA AGCAGTCGATTTGTGTTTGTTCCTGGCTCTGAAGACCCAGGTCCAGGTTCATATTTGCCAAGGTATGGTTGTTACCATTAAATACTCTTACATATTTCTAGAGAATATGCAAATGATTCATCTCTGATACATAT

cDNA -----AGACCCCCCTTGGAGAAAATATCACTGAGGAATTCAGACAGCAGGTGCCTTATTCTGTTTTCACTACAAATCCTTGCA  
DNA CACATTAATTTATTTTAGACCCCCCTTGGAGAAAATATCACTGAGGAATTCAGACAGCAGGTGCCTTATTCTGTTTTCACTACAAATCCTTGCA

### ***LARS***

cDNA TCCATCATGAAAGCTTCTTGCCGGTGCCTGGCCCTGTGGATGAAGTACTCCTCCGCTCGTCCCAGTACCTCACTGAGGTAGCCCACGATCTCCGCCTGCGCCTTAAGAACTACATGGCACCAGCAAAAGGGAA  
DNA TCCATCATGAAAGCTTCTTGCCGGTGCCTGGCCCTGTGGATGAAGTACTCCTCCGCTCGTCCCAGTACCTCACTGAGGTAGCCCACGATCTCCGCCTGCGCCTTAAGAACTACATGGCACCAGCAAAAGGGAA

cDNA G-----  
DNA GGTAAGCCCTTCTTTTAGTGATGGCAAACCTTTTAGAGACCGAATGCCAAAACCAACCCACCCCTCCCTCCTCCTGCTACCTGTCTCACCTGCACCTTCTCTTGCCCTCGCCTCCTCCTGGGCAGGATTTC

cDNA -----  
DNA AGCCTATGGGACCTGCAGAGAGCCTCCCCTCTCACCTCCCTATTGGCAGAGGGAGAAGAGTGGGTGGGGAAGTGCCACTGCCATTGACCCAGTGGGGTGGGGCTGACCAGTGTGCCCCGTGTGCCACAGAA

cDNA -----  
DNA AGGGCTCTGGGCCCCTCCTCTGGCATGCATGACATAGGTTTCATTACAACCTGCCTTATATTGTCTCCTCCTTCTCCCATCATATGCTTTAAAGACACCTGTCTTCTAAGAGAGATTTTCCTTTAATGTTTCTTTT

cDNA ----AGAAGGGCAGCAAGGGAGCGCCCCAGAAGCCATCTCACTGCACCATTATGTGGCAAAAACTACCCACCATGGCAGCATATCACATTATCTGTTCTGCGCACGCAAGCATTATC  
DNA TTGTAGAAGGGCAGCAAGGGAGCGCCCCAGAAGCCATCTCACTGCACCATTATGTGGCAAAAACTACCCACCATGGCAGCATATCACATTATCTGTTCTGCGCACGCAAGCATTATC

### ***ANKRD11***

cDNA GCCGTCGGTGTGTTTCTCTCGGTGCTTCTCCCTCTCTTCTTTCCATTCTCTTTGTGCCGGTCTCTCTTCTTCTCTTTGGTGGCGCTGTATGTTCTCTCCTTTTCCGCCTTCTTTGGAAGCTCTCGTTCAG  
DNA GCCGTCGGTGTGTTTCTCTCGGTGCTTCTCCCTCTCTTCTTTCCATTCTCTTTGTGCCGGTCTCTCTTCTTCTCTTTGGTGGCGCTGTATGTTCTCTCCTTTTCCGCCTTCTTTGGAAGCTCTCGTTCAG

cDNA ACTCATTTTTGTCCTTCTTTTCTGAAAATGGGTACTCTGTGTTTCTGTCTGGTTCTTCTTCTGCCTCTGGTTTGGTACCATAGGAAATGCCAAAGCCTTCTCCGTCAGCCACAAACTCCTTTTCATACTGGGTT  
DNA ACTCATTTTTGTCCTTCTTTTCTGAAAATGGGTACTCTGTGTTTCTGTCTGGTTCTTCTTCTGCCTCTGGTTTGGTACCATAGGAAATGCCAAAGCCTTCTCCGTCAGCCACAAACTCCTTTTCATACTGGGTT

cDNA GAATCCTTCCTGTCTTTAAACTCGTCTATTTTATCCTTCTTCTCTGCTTTGTCTTTCTTGGTTTTCTCTTTTTCGTGGCTCTTCTTTGATGAGGATGAGGAATGCCGGTGCCTCTCCTTTTTCCTTGAGTTTATC  
DNA GAATCCTTCCTGTCTTTAAACTCGTCTATTTTATCCTTCTTCTCTGCTTTGTCTTTCTTGGTTTTCTCTTTTTCGTGGCTCTTCTTTGATGAGGATGAGGAATGCCGGTGCCTCTCCTTTTTCCTTGAGTTTATC

cDNA CGGCAAGCCAGGCAAAGGCAAAGACG  
DNA CGGCAAGCCAGGCAAAGGCAAAGACG

### ***GLN1***

cDNA AGTGGACTTGAGCAGCTGGAAGGAGAAAATTGAGCGGGATGCTGCGATGGCCCAGCACACCCTCGAGGACTCGGAGGATTCTGAGGAAGACGACGAAAGTCCGGCGGTATTAGTAGAGCACCAAACTGATGTGG  
DNA AGTGGACTTGAGCAGCTGGAAGGAGAAAATTGAGCGGGATGCTGCGATGGCCCAGCACACCCTCGAGGACTCGGAGGATTCTGAGGAAGACGACGAAAGTCCGGCGGTATTAGTAGAGCACCAAACTGATGTGG

cDNA CTATGGAGGCCGGGGGATTACGCAGGAGA  
DNA CTATGGAGGCCGGGGGATTACGCAGGAGA

### ***RBM5***

cDNA ACCTGTATTGTAGCTGCATCTGTGTCCAATGTTCTTGCTTGGTTCTGGTAAAACTGTTGATAATCCTGTGAACACT-----  
DNA ACCGGTTATGGAAGCTGCATCTGTGTCCAATGTTCTTGCTGGGTCTGGTAAAACTGTTGATAATCCTGTGAACACTATGCAGAGAATAAAGTCAAATTTACACCAGTGATTTCAAATTAACATTATGTGAGT

cDNA -----  
DNA CTTACAAGAAACGGGTAATCATAGGACAGCTATCATAGGACCACCAGACACATTTCTTTAAGAGAGCATTTGACTAAAGGAGGACAACTATGAAAAAACCCCGCTTAACAGGTACTTCTAAAACATGGGGAC

cDNA -----  
DNA TCTGTGGGTTCTGCCCATCTGGCACAAAACCTTCCTTCTATAAACTTAACTACATGGACTAACATTAGGATCAAATCTATGCTCTTGTGCTTTAAGTGCCTAACTCACATAGTTTGTAGCTACACTTTTGTGGT

cDNA -----  
DNA GTATCCTTTGGTTTTTCTTAAGCATTAGGAAGCTTTGTTCTGTCTTCTGATAGCTTTCTAGTAACACATTTCAAATTTTAAATGTCATTTGACTTAACTGTCTGTCTTTCTTTTGTAGCACAACTATGTAATA

cDNA -----  
DNA TCCAGGCAAGTTAAATAACACAGCACCTCACAAATACAAACATTAATGAAATGAAACATATCACATCTCCATCTTCTTGGTTGCCTGTGACTTTAAGAAGCAACTTCAGAGGGTCAAAGGTACTTCTAAACCA

cDNA -----  
DNA TGGAATGATGGGGAAACTTACCTGCTTTTTGGTAATTCATCACTCCTTCTCCACAGCACCCACCCTTGCATGTAATTAGTGTTCAGAAACACCTTTCAGTACTTCTAAAGAGTTAATGGAGAACAGAAAAC

cDNA -----GAGAGTACTGGGAATAACCATCCTGCCCTAG  
DNA TTTTCACTTGTAGCACTATTCAGACCCACCTGAGAGTACTGGGAATAACCATCCTGCCCTAG

### ***VPS11***

cDNA GGTGCGTTTGGTGTGCATGAGCATGTCACGCTGCAGGCCAGCCTCCAGAGCTGTGGCTGACTTGCTGGATGGAAGGTCAGTGAGAAGGGTGATCCTTGTTAAA  
DNA GGTGCGTTTGGTGTGCATGAGCATGTCACGCTGCAGGCCAGCCTCCAGAGCTGTGGCTGACTTGCTGGATGGAAGGTCAGTGAGAAGGGTGATCCTTGTTAAA

### ***SDHC***

cDNA CTGTCTCCTCATGTGACCATCTATGA-----  
DNA CTGTCTCCTCATGTGACCATCTATGAGTAAGAGCAGTCTTCTCTGATGAAGGGGAAATTTTCTCTATTTGTTTGAAATGCATTTGATTGAGGTCAAGATGTTTTACAATTTTTTAAAAACAAGTTCATTTCCCT

cDNA -----  
DNA TCCTGCTCATCCTCTCAAAAAGCAGCATTAGTGGGGATTAATCCTGGCAACCTAGCAGACTGAAAGCAAGAAATTTCAAATACAGTAGATAAAATCGGGACCATTTCGGTGGGAAAAGATCTTGGGAACATGAAA

cDNA -----  
DNA GGAGCCTCATTTGGGTGTCTCTGAGTAGAGATTTTCCAGCAAAAATCCTTTCAATCCA

### ***POLRMT***

cDNA TTGGGGCTTCCTATCTCCACCTACCATCGCTCTAAAACCATCCTGG-----  
DNA TTGGGGCTTCCTATCTCCACCTACCATCGCTCTAAAACCATCCTGGTAAGCTGTGGATCACAAACGGCTGGGTGGTGAGGTGGTGGTGGAGAGCAGAACGAGGCCATGTACAATAGCTAAGAGGTATCCTTTTCC

cDNA -----  
DNA TTAGTCAGCCTTTTAGCATCTTCTCTCT

### ***MARS2***

cDNA TCTCATGGCCCAGGGCGTGCCACGTTGTGGGCAAAGATATTCTCAAGTTCCATGCCATCTATTGGCCTGCTCTGCTGATGGCAGCAGGACTGGAGCCTCCGGAACAGATCTTGGTCCATTCTCACTGGACAGTG  
DNA TCTCATGGCCCAGGGCGTGCCACGTTGTGGGCAAAGATATTCTCAAGTTCCATGCCATCTATTGGCCTGCTCTGCTGATGGCAGCAGGACTGGAGCCTCCGGAACAGATCTTGGTCCATTCTCACTGGACAGTG

cDNA GAAGGGCAGAAGATGTCCAAGAGCCTAGGCAACGTGGTGGACCCAGTCACCTGCTTCCAGCAGTACTCAGTGGATGGATTCCGGTATTTTCCTACTGAGACAGGGTGTCCTTGAGTGGGACAACGACTACTACAG  
DNA GAAGGGCAGAAGATGTCCAAGAGCCTAGGCAACGTGGTGGACCCAGTCACCTGCTTCCAGCAGTACTCAGTGGATGGATTCCGGTATTTTCCTACTGAGACAGGGTGTCCTTGAGTGGGACAACGACTACTACAG

cDNA CCGGAAGGCCATCAACCTGATCAATTCGGAGCTGGCTGATGCCCTTGAGGAGTCTCCTCAACCGGTGTACGGCCTCCAGTCTGAACCCAGTGGGATCTTCCCTTGCTTTTCGGAGGAATGCTTTCCCCAGGATA  
DNA CCGGAAGGCCATCAACCTGATCAATTCGGAGCTGGCTGATGCCCTTGAGGAGTCTCCTCAACCGGTGTACGGCCTCCAGTCTGAACCCAGTGGGATCTTCCCTTGCTTTTCGGAGGAATGCTTTCCCCAGGATA

cDNA TGAATGCTGAAAGGGTAAGAGGATCTGCTTGGGCCTCAGCAGATGATTACATGTTGGTGTTCATCAGTGAAAGACTTGCCCATAAAAGTGAGCCGTTTCGTTTGAAGAATTTTGCATCTACAAGGCTTTGGAGGCC  
DNA TGAATGCTGAAAGGGTAAGAGGATCTGCTTGGGCCTCAGCAGATGATTACATGTTGGTGTTCATCAGTGAAAGACTTGCCCATAAAAGTGAGCCGTTTCGTTTGAAGAATTTTGCATCTACAAGGCTTTGGAGGCC

cDNA ATCTCAGATTGCGTGAGGCAGACCAACAGCTTCATCCAGAGACATGCTCCTTGAAACTCAACCTCGAGGAGCCAGCACAGAAGCGCTGGCAGGACACCATCATCCACGTCACTCTGGAATGTCTCCGGGT  
DNA ATCTCAGATTGCGTGAGGCAGACCAACAGCTTCATCCAGAGACATGCTCCTTGAAACTCAACCTCGAGGAGCCAGCACAGAAGCGCTGGCAGGACACCATCATCCACGTCACTCTGGAATGTCTCCGGGT

### **MRPL30**

cDNA -----  
DNA GGAAGGGAAGGATCGGAAAGGGTCCCCGGTGGAATGTGGCCGTGGGTTTAGAAAACAGCCCTCTATGTATAAGAGAGGGAGGGTTGTAATGTTCTAATATGTTTTCTTTAACGTTGATGGTGCCTTTTACG

cDNA -----  
DNA GCTTCTATCCGTGGGCTTTATTTATCTTTTAGTTGAAAATGTTGTAAGCCGCCAGAGTCGCGTGTTGATTGGGCGCAATACAAAGCGAATTAAATAAAATAAATTTTGTCAAAAGTTAAAAAGCTAAGGTTCTG

cDNA -----  
DNA AAAGCAAGAAATTGCAATAGACAAATAGGTACCGCTTCAGTGGGAAGGTAACAGCGTTCTGTGTTCTCCATTGTCTATTCTGCCTGACACACGATCACAGAAACATCTGCAGAAGCAGACGGTGATAGTTCT

cDNA -----  
DNA TCGGCTTTGAAACAGAGATGATCACTGAACCCTAGAGTCAGATACGACTGGCTTTTGAGCAAGGAAAACCTTTACTTTACCTTTATAAGAAGCTTA

### **ACAD9**

cDNA CCATCCCAGTCTACAA-----  
DNA CCATCCCAGTCTACAAATAAGTAGCTAACACAAATCTAGGAGGTATGCCTGGGTATCTTCTTTCTTGTACAAGTATGGATGTTTGCAGGCTGTCTAGTAAGTTGATTCTGGTATTCTTTATTGTTACACCAAT

cDNA -----  
DNA CTAATGACATGGAAC TTGATCTAGAGCTGCTAGAGGTTTCTTCACTGATACTTGCAAGATGAAGCAACATATGGGTTTAACTAGGTACAGTTGTAATGTTAATAAAATGTTGAATGTTGCTCTTTTCTAAAA

cDNA -----  
DNA TTGTTAAC TTTGCTGGCCGGTCTTAAATGTACATATTTGCACGCACATAATGTGTTGAAATAAGAGGACCTGCTTCTTGTTTGAATGGTTGCCTTTCAAAAATAAGGCTGAATCCATAACGTAGAGTATTAT

cDNA -----  
DNA CACCACCCGTATCTGTAGAGGATACATTCTAGGATTTTACACGTATTCTTGAAACCACGGAAAACAGCAAACCCTGTAATAAGAACATATACCTGAGTATGGCAGTTCAGTTGCTCAATATTTTTAAACTGC

cDNA -----  
DNA ATATATCAGTTGTATGTGGGTAATTGAGAATGAA

### **TCIRG1**

cDNA AGGTGGAGTAGCCCTTGTACCCATCTTCGCTTTCTTTGCGGTACTGACCGTAGCCATCTTGCTAGTGATGGAGGGTCTGTCAGCTTTTTTGCATGCTTTACG  
DNA AGGTGGAGTAGCCCTTGTACCCATCTTCGCTTTCTTTGCGGTACTGACCGTAGCCATCTTGCTAGTGATGGAGGGTCTGTCAGCTTTTTTGCATGCTTTACG

### **TAP1**

cDNA CTAGGGAAGGTGAGCAGTGGTGAAC TTGTCATGTTTCGTCCTCTACGAGATGCAGTTTTCCAC  
DNA CTAGGGAAGGTGAGCAGTGGTGAAC TTGTCATGTTTCGTCCTCTACGAGATGCAGTTTTCCAC

***C1QBP***

cDNA GAATTCCTGACAGATGAAATCAAGGAAGAGAAGATAATCCAGAAACACAAAGCCCTCCCTAAA

DNA GAATTCCTGACAGATGAAATCAAGGAAGAGAAGATAATCCAGAAACACAAAGCCCTCCCTAAA

***ETFA***

cDNA CTCAACATGATGCCTACAAAGGACTACTGCCTG-----A

DNA CTCAACATGATGCCTACAAAGGACTACTGCCTGGTGAGGCTTATTCTCAACACAGCTTCGCATTAAAGTTTCCTGCAGTCAGCTTGTGCTAGAATAGATAAGGTGCCCTGACTCGTCTGTCTCGTCCCCAGAA

cDNA GGAGCTGACTCC

DNA GGAGCTGACTCC