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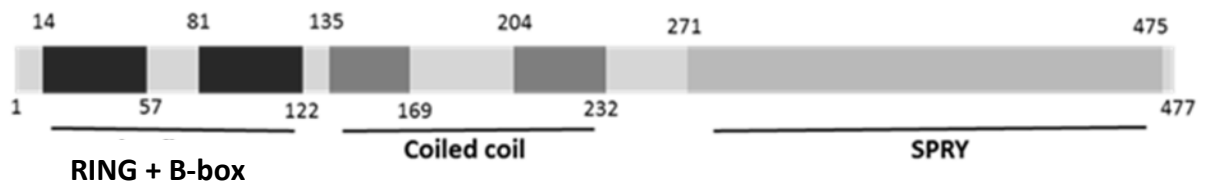


Fig. 1

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVLEEVDKQPQTEFLMKYCLVTSRLQKILAESP PPARLDIQLPIISDDFKFQV
 WRKMFRA LMPALEELTFDPSSAHP SLVSSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPVY
 PFFDVCWHDKGKNAQPLLLVGPEGAEA (SEQ ID NO: 1)

ATGTCGGCTGCGCCCGGCCTCCTGCACCAGGAGCTGTCCTGCCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
 CCGTGACAGCCGAGTGCGGCCACAGTTTCTGCCGCGCCTGCCTAGGCCGCGTGCCGGGGAGCCGGCGGC
 GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGGCCGCGAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGCGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTCACTCGGCTCGCACCGCGGTCA
 TCGCCTCCTGCCTGCCGCCGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGCGAGGCAGAGCGTGTACGGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCTGGAGGAGGTGGCGGACAAGCCGC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTTCTCTGGCCGCCGCGTGAGTGCTCGGAGCAGAAGGCGCCGCCGGCCGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGGCGCACCAAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGAT
 GTTGGCGACAAGCCGCGCTGGGCGCTGGGCGTGATCGCGGCCGAGGCCCCCGCCGCGGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGAGGCGGCCACGCGCATTGGCCTTTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCCAGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCGCT
 GCTGCTCGTGGGTCCCGAAGGCGCCGAGGCCTGA (SEQ ID No: 19)

Fig. 2

MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PAADGTVACPCCQAPTRPQALSTNLQLSRLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMLQEACMRKEKTVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVRGDAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQV
 WKKMFRA LMPALEELTFDPSSAHP SLVVSSGRRVECDQKAPPAGEDTRQFDKAVAV
 VAQQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLA FYDASNPDLTPIFSHERLP GPVY
 PIFDVCWHDKGKNAQPLLLVGPEQEQA (SEQ ID NO: 2)

ATGTCGGCTGCACCCGGCCTTCTGCGTCAGGAAGTGTCTGCCACTGTGCTTGCAGCTGTTCGATGCGC
 CAGTGACGGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGGGTGGCAGGGGAGCCTGCTGC
 GGACGGCACAGTTGCCTGTCCCTGTTGT CAGGCACCTACACGGCCGCAGGCTCTAAGCACTAACCTCCAG
 TTGT CACGCCCTTGTGGAGGGTTTTGGCGCAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCGCTCGGTTCTCACC GTGGTCA
 TCGTCTCCTGCCTGCCGCTGAAGCCCAAGCACGCCTCAAGACACAGCTTCCACAGCAGAAGATGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGACTGTAGCGGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCGCCAGTTCCGGGGAGCTGTGCGGGGAGCAGCTGGGGAAGATGCGGATGTTCTTGCTGCCCTAGA
 AAGTTCTCTGGACCGTGAAGCAGAAAGGGTTCCGGGTGATGCTGGGGTTGCCTTGCGTCGGGAGCTGTCA
 AGCCTGAACTCTTACCTAGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTAACCAGCAGGCTGCAGAAGATCCTGT CAGAGTCACCACC
 ACCGGCAAGGCTAGATATCCAGCTGCCTGT CATCTCAGATGACTTCAAATTCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTCTCTCTGGTCGCCGAGTGGAGTGCTCAGACCAGAAGGCGCCGCGCAGCGGGAGAAGACACGCGTCA
 GTTCGACAAGGCAGTAGCGGTGGTGGCGCAGCAGCTGCTGT CACAGGGCGAGCACTATTGGGAGGTGGAG
 GTGGGCGACAAACCACGCTGGGCCCTGGGAGTGATGGCGGCTGACGCTTCCCGCCGTGGCCGGCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGCTGCTGGGTCTGCGCGATGGCAAGATCCTGGAGGCGCACGTGGAGGC
 CAAGGAGCCGCGGGCACTGCGCACCCCAAGAGGCTCCGGCGCGCATTGGCCTCTACCTAAGCTTCGCA
 GATGGCGTCTTGCTTTCTATGATGCGAGCAACCCGACGTACTTACGCCAATCTTTTCTTTCCACGAGC
 GTCTGCCCCGGGCGGTGTACCCCATCTTTGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCCCT
 GCTGCTTGTGGGGCCGGAGCAGGAACAGGCCTGA (SEQ ID NO: 20)

Fig. 3

MSTAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PADDGTVACPCCQASTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKAQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVGEAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQV
 WKKMFALMPELEELTFDPSSAHP SLVVSASGRRVECSEQKAPPAGEDTCQFDKTVAV
 VAKQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLT FYDASNTDALTPLFSFHERLPGPVY
 PMFDVCWHDKGKNSQPLLLVGPDSEQA (SEQ ID NO: 3)

ATGTCGACTGCACCAGGCCTTTTGCGCCAGGAAGTGTCTTGCCCGCTGTGCTTGCAGCTGTTTCGATGCAC
 CAGTGACCGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGTGTGGCAGGGGAGCCTGCCGA
 CGATGGCACGGTTGCCTGTCCCTGTTGT CAGGCATCTACTCGGCCACAGGCGCTAAGCACTAACCTCCAG
 TTGGCACGCCCTTGTGGAGGGTTTGGCACAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCTCTCGGTTTCACACCGTGGTCA
 CCGTCTTCTGCCTGCCGCAGAAGCCCATGCACGTCTCAAGACACAGCTTCCACAACAGAAGGCCCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCAGTCTGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CCGTGCGTCAGTTCCGGGGAGCTGTTGGGGAGCAGCTGGGGAAGATGCGGATGTTCTTGGCTGCCCTAGA
 AAGTTCTTTGGACCGTGAAGCAGAAAGGGTTTCAGAGTGAGGCAGGGGTTGCCTTGCGGCGGGAGCTGTCA
 AGCCTGAACTCTTACCTGGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTGACCAGCAGGCTGCAGAAGATTCTGTCAGAGTCACCACC
 CCCAGCAAGGCTAGATATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGAGTTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCCGCTCTGGTGCCTGAGTGAGTGCTCGGAGCAGAAGGCGCCGAGCAGGAGAAGACACGTGCCA
 GTTCGACAAGACGGTAGCGGTAGTGCGAAGCAGCTGCTGTACAGGGGGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCCCTGGGTGTGATGGCGGCTGACGCTTCCCGTCGTGGCCGCCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGTTGCTCGGCCTGCGCGATGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCACGGGCACTGCGCACCCAGAGAGGCCACCGCGCGCATTGGCCTCTACCTAAGCTTTGCA
 GATGGCGTCCTGACTTTCTATGATGCAAGCAACACCGACGCGCTTACACCGCTCTTTTCTTTTCATGAGC
 GTCTGCCTGGGCCGGTGTACCCCATGTTTGACGTGTGCTGGCACGACAAGGGCAAGAATTCTCAGCCGCT
 GTTGCTCGTGGGGCCAGACAGTGAGCAGGCCTGA (SEQ ID NO: 21)

Fig. 4

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLPLSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAESP PARLDIQLPIISDDFKFQV
 WRKMFALMPALEELTFDPSSAHPSLVVSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVEVGDKPRWALGVIAAEGPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPGPVY
 PFFDVCWHDKGKNSQPLLLVGSEGAEA (SEQ ID NO: 4)

ATGTCGGCTGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
 CCGTGACAGCCGAGTGCGGCCACAGTTTCTGTCGCGCCTGCCGCGCGCTGGCCGGGGAACCGGCGGC
 GGATGGCACCGTTCTCTGCCCTGCTGTGCAGGCCCCACGCGGCCGCAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCGCAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGTGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTCACTCGGCTCGCACCGCGGTCA
 TCGCCTGCTGCCCGCCGCCGAGGCCACGCACGCCTCAAGACGCAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCTGTGCTGGAGCATCAGTTGGTGGAAAGTGGAGGAGA
 CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGTGAGGCAGAGCGTGTGCGGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCGC
 AGACTGAGTTCCTAATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATCATCTCAGATGACTTCAAATTCCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCAGCCTGGTGG
 TGTCTTCTCCGGCCGCCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCCGGCGGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTAGCGGTGGTGGCGCACCAGCAGCTCTCCGAGGGCGAACACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCGCGCTGGGCGCTGGGTGTGATCGCGGCCGAGGGGCCCCGTCGCGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGTGAGGGCAAGATCCTGGAGGCTCACGTGGAGGC
 CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGCGGCGGCCACGCGCATCGGCCTCTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCGGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCTGGGCCCCTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAACTCCCAGCCGCT
 GCTGCTCGTGGGGTCCGAAGGCGCCGAAGCCTGA (SEQ ID NO: 22)

Fig. 5

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPSCQAPTRPQALSTNQQRLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRV
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVGVLEQQLVE
 VEETVRQFRGAVGEQLGKMRLFLAALEGS LDREAERVGEAGVALRRELGSLKSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAESP PPARLDIQLPVISDDFKFQV
 WRKMFRA LMPAMQELTFDPSTAHP SLVLSASGRRVECSEQKAPPAGEDPRQFDKAVAV
 VTHQLLSEGEHYWEVEVGDKPRWALGVIGA QAGRRGR LHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRTPERRPSRIGIYLSFADGVLSFYDASDADALELLFAFHERLP GPVY
 PFFDVCWHDKGKNAQPLLLVGPDSGGEA (SEQ ID NO: 5)

ATGTCAGCTGCGCCCGGCTCCTGCACCAGGAGCTGTCCTGTCCGCTGTGCCTGCAGCTGTTTCGATGCGC
 CGGTGACGGCTGAGTGCGGCCACAGCTTCTGCCGCGCTGCTGGGCCGCGTGGCAGGGGAGCCAGCCGC
 GGATGGCACGGTGCTCTGCCCCAGCTGCCAGGCACCCACGCGGCCGCGAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGACCGCGTGCTCGTGTGCGGCGTCTGCGCCTCGCTGGGTTCGCACCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCCATGCGCGCCTTAAGACGCAGCTCCCGCAGCAGAAGCTGCAGCTG
 CAGGAGGCGTGTATGCGGAAGGAGAAGAGCGTGGGTGTGCTGGAGCAACA ACTGGTGGAAGTGGAGGAGA
 CGGTGCGTCAGTTCCGGGGGGCAGTGGGGGAGCAGCTGGGCAAGATGCGGTTGTTCTGGCTGCACTGGA
 GGGCTCCTTGGACCGAGAAGCAGAGCGTGTGCGGGGTGAGGCGGGGTCGCCTTGCGGAGGGAGCTGGGG
 AGCCTGAAGTCTTACTTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCAGACAAGCCCC
 AGACCGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCGCCCCC
 ACCTGCCCCGCTGGACATTCAGCTGCCTGTCATCTCAGACGACTTCAAATTCCAGGTGTGGAGAAAGATG
 TTCCGGGCCCTGATGCCAGCGATGCAGGAGCTGACCTTTGACCCAGCACGGCCACCCGAGCCTGGTGC
 TGTCGGCCTCGGGCCGCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCGGCGGAGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGACGCACCAGCTGCTGTGCGGAAGGCGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCGCTGGGCGTGATCGGGGCCAGGCCGTCGCCGCGGCCGGCTGCACG
 CCGTGCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGCGAGGGCAAGATCCTGGAGGCTCACGTCGAGGC
 CAAGGAGCCGCGCGCCCTGCGCACCCCGGAGAGGCGGCCGTCGCGCATCGGGATCTACCTGAGCTTCGCG
 GATGGCGTCTCTCGTTCTACGACGCCAGCGACGCCGACGCGCTGGAGCTGCTCTTCGCCTTCACGAAC
 GCCTGCCGGGGCCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAAGCTCAGCCGCT
 CCTGCTGGTGGGGCCGACAGCGGCGGGGAGGCCTGA (SEQ ID NO: 23)

Fig. 6

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLSRVAGE
 PAADGTVPCCQALTRPQALSTNQQLARLVEGLAQVPQGHCEEHLPLSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVALLEHQLME
 VEEMVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAESP PARLDIQLPVISDDFKFQV
 WRKMFALMPVTKELTFDPSSAHPSLVLSPSGRRVECDQKAPPAGEDPCQFDKAVAV
 VAQQVLS DGEHYWEVQVGEKPRWALGVIAAQASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERRPTRIGIYLSFGDGVLSFYDASDPDALELLFAFHERLPGPVY
 PFFDVCWHDKGKNAQPLLLVGPDGEEA (SEQ ID NO: 6)

ATGTCGGCCGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTCTGCCTGCAGCTGTTTGACGCGC
 CGGTGACCGCCGAGTGCGGCCACAGTTTCTGCCGCGCTGCTGAGCCGCGTGGCTGGGGAGCCGGCGGC
 GGACGGCACCGTGCCCTGCCCGTGCTGCCAGGCACTCACGCGGCCACAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGATCGAGCGCTCGTGTGCGGCGTGTGCGCCTCGCTCGGCTCGCACCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCACGCGCGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGTATGCGCAAGGAGAAGAGTGTGGCTCTGCTGGAGCATCAGCTCATGGAAGTGGAGGAGA
 TGGTGCGTCAGTTCCGGGGGGCTGTAGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGTGAGGCAGAGCGCTGCGGGGAGAGGCAGGGGTGCCCTGCGGCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGTTGCGTCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCAC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTACAGAAGATCCTGGCAGAATCACCACC
 GCCTGCCCCTTTGGACATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGTTACAAAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGC
 TGTCTCCCTCCGGTCGCCGCGTGGAGTGCTCGGACCAGAAGGCGCCGCCGGCCGGGGAGGATCCGTGCCA
 GTTCGACAAGGCCGTGGCGGTGGTGGCGCAGCAGGTGCTGTCCGACGGCGAGCACTACTGGGAGGTGCAG
 GTGGGCGAGAAGCCGCGCTGGGCCCTCGGCGTGATCGCGGCCAGGCCAGCCGCCGCGGCCGGCTGCACG
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 CAAGGAGCCGCGCGCTGCGCACCCCGGAGAGGCGGCCACGCGCATCGGGATCTACCTAAGCTTCGGC
 GACGGAGTCTCTCTTTTATGATGCCAGTGACCCGACGCCCTCGAGCTGCTCTTTGCCTTCCACGAGC
 GCCTGCCC GGCCCGTGTACCCCTTCTTCGACGTATGCTGGCACGACAAGGGCAAAAATGCTCAGCCGCT
 GCTGCTGGTGGGCGCTGATGGCGAGGAGGCCTGA (SEQ ID NO: 24)

Fig. 7

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLPLSIYCEQDRA
 LVCGVCSLGSRHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPIISDDFKFQV
 WRKMFALMPALEELTFDPSSAHPSLVVSSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPVY
 PFFDVCWHDKGKNAQPLLLVGPEGAEA (SEQ ID NO: 7)

ATGTCGGCTGCGCCCGGCCTCCTGCACCAGGAGCTGTCCTGCCCCTGTGCCTGCAGCTGTTTCGACGCGC
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 GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGGCCGAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGCGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
 TCGCCTCCTGCCTGCCGCCGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCCTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
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 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCTGGAGGAGGTGGCGGACAAGCCGC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCTCCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTTCTCTGGCCGCCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCCGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGGCGACCAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGAT
 GTTGGCGACAAGCCGCGCTGGGCGCTGGGCGTGATCGCGGCCGAGGCCCCCGCCGCGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCGCGCCTCTGCGCAGCCCCGAGAGGCGGCCACGCGCATTGGCCTTTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCCAGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCCAGCCGCT
 GCTGCTCGTGGGTCCCGAAGGCGCCGAGGCCTGA (SEQ ID NO: 13)

Fig. 8

MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PAADGTVACPCCQAPTRPQALSTNLQLSRLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMLQEACMRKEKTVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVGRDAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSEAPPPARLDIQLPVISDDFKFQV
 WKKMFRALMPALEELTFDPSSAHPSLVVSSSGRRVECDQKAPPAGEDTRQFDKAVAV
 VAQQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLAIFYDASNPDLTPIFSHERLPGPVY
 PIFDVCWHDKGKNAQPLLLVGPEQEQA (SEQ ID NO: 8)

ATGTCGGCTGCACCCGGCCTTCTGCGTCAGGAAGTGCCTGCCCACTGTGCTTGCAGCTGTTCGATGCGC
 CAGTGACGGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGGGTGGCAGGGGAGCCTGCTGC
 GGACGGCACAGTTGCCTGTCCCTGTTGTGTCAGGCACCTACACGGCCGCAGGCTCTAAGCACTAACCTCCAG
 TTGTACAGCCTTGTGGAGGGTTTTGGCGCAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCGCTCGGTTCTCACCGTGGTCA
 TCGTCTCCTGCCTGCCGCTGAAGCCCAAGCACGCCTCAAGACACAGCTTCCACAGCAGAAGATGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGACTGTAGCGGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCGCCAGTTCCGGGGAGCTGTCGGGGAGCAGCTGGGGAAGATGCGGATGTTCTGCTGCCCTAGA
 AAGTTCTCTGGACCGTGAAGCAGAAAGGGTTCCGGGTGATGCTGGGGTTGCCTTGCCTCGGGAGCTGTCA
 AGCCTGAACTCTTACCTAGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTAACCAGCAGGCTGCAGAAGATCCTGTCAGAGGCACCACC
 ACCGGCAAGGCTAGATATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTCCTCTGGTGCCTGAGTGGAGTGCTCAGACCAGAAGGCGCCGAGCGGGAGAAGACACGCGTCA
 GTTCGACAAGGCAGTAGCGGTGGTGGCGCAGCAGCTGCTGTCACAGGGCGAGCACTATTGGGAGGTGGAG
 GTGGGCGACAAACCACGCTGGGCCCTGGGAGTGATGGCGGCTGACGCTTCCCGCCGTGGCCGGCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGCTGCTGGGTCTGCGCGATGGCAAGATCCTGGAGGGCGCACGTGGAGGC
 CAAGGAGCCGCGGGCACTGCGCACCCCAAGAGGCCTCCGGCGCGCATTGGCCTCTACCTAAGCTTCGCA
 GATGGCGTCTGGCTTTCTATGATGCGAGCAACCCCGACGTACTTACGCCAATCTTTTCTTTCCACGAGC
 GTCTGCCCCGGGCGGTGTACCCCATCTTTGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCCT
 GCTGCTTGTGGGGCCGGAGCAGGAACAGGCCTGA (SEQ ID NO: 14)

Fig. 9

MSTAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PADDGTVACPCCQASTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQAQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVGEAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSEAPPPARLDIQLPVISDDFKFQV
 WKKMFRALMPELEELTFDPSSAHPSLVVSASGRRVECSEQKAPPAGEDTCQFDKTVAV
 VAKQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLTIFYDASNTDALTPLFSFHERLPGPVY
 PMFDVCWHDKGKNSQP LLLVGPDSEQA (SEQ ID NO: 9)

ATGTCGACTGCACCAGGCCTTTTGCGCCAGGAAGTGTCTTGCCCGCTGTGCTTGCAGCTGTTTCGATGCAC
 CAGTGACCGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGTGTGGCAGGGGAGCCTGCCGA
 CGATGGCACGGTTGCCTGTCCCTGTTGTGTCAGGCATCTACTCGGCCACAGGCGCTAAGCACTAACCTCCAG
 TTGGCACGCCCTTGTGGAGGGTTTGGCACAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCTCTCGGTTTCACACCGTGGTCA
 CCGTCTTCTGCCTGCCGAGAGCCCATGCACGTCTCAAGACACAGCTTCCACAACAGAAGGCCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCAGTCTGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CCGTGCGTCAGTTCCGGGGAGCTGTTGGGGAGCAGCTGGGGAAGATGCGGATGTTCTGGCTGCCCTAGA
 AAGTTCTTTGGACCGTGAAGCAGAAAGGGTTTCAGAGTGAGGCAGGGGTTGCCTTGCGGCGGGAGCTGTCA
 AGCCTGAACTCTTACCTGGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTGACCAGCAGGCTGCAGAAGATTCTGTGAGAGGCACCACC
 CCCAGCAAGGCTAGATATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGAGTTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCCGCTCTGGTGCCTGAGTGAGTGTGCTCGGAGCAGAAGGCGCCGAGCAGGAGAAGACACGTGCCA
 GTTCGACAAGACGGTAGCGGTAGTGCGAAGCAGCTGCTGTGACAGGGGGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCCCTGGGTGTGATGGCGGCTGACGCTTCCCGTCGTGGCCGCCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGTTGCTCGGCCTGCGCGATGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCACGGGCACTGCGCACCCAGAGAGGCCACCGCGCGCATTGGCCTCTACCTAAGCTTTGCA
 GATGGCGTCCTGACTTTCTATGATGCAAGCAACACCGACGCGCTTACACCGCTCTTTTCTTTTCATGAGC
 GTCTGCCTGGGCCGGTGTACCCCATGTTTGACGTGTGCTGGCACGACAAGGGCAAGAATTCTCAGCCGCT
 GTTGCTCGTGGGGCCAGACAGTGAGCAGGCCTGA (SEQ ID NO: 15)

Fig. 10

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPIISDDFKFQV
 WRKMFRA LMPALEELTFDPSSAHPSLVVSSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVEVGDKPRWALGVIAAEGPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPGPVY
 PFFDVCWHDKGKNSQP LLLVGSEGA EA (SEQ ID NO: 10)

ATGTCGGCTGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCCTGTGCCTGCAGCTGTTTCGACGCGC
 CCGTGACAGCCGAGTGCGGCCACAGTTTCTGTCGCGCCTGCCTGGGCCGCGTGGCCGGGGAACCGGCGGC
 GGATGGCACCGTTCTCTGCCCCTGCTGT CAGGCCCCACGCGGCCG CAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCCAGGTGCCGCAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGTGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
 TCGCCTGCTGCCCGCCGCCGAGGCCACGCACGCCTCAAGACGCAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCTGTGCTGGAGCATCAGTTGGTGGAAGTGGAGGAGA
 CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGTGAGGCAGAGCGTGTGCGGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCGC
 AGACTGAGTTCCTAATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCTCCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGTGACCTTTGACCCGAGCTCTGCGCACCCAGCCTGGTGG
 TGTCTTCTCCGGCCGCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCGCGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTAGCGGTGGTGGCGACCAGCAGCTCTCCGAGGGCGAACACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCGCGCTGGGCGCTGGGTGTGATCGCGCCGAGGGGCCCCGTGCGGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGTGAGGGCAAGATCCTGGAGGCTCACGTGGAGGC
 CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGCGGCGGCCACGCGCATCGGCCTCTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCTGGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAACTCCCAGCCGCT
 GCTGCTCGTGGGGTCCGAAGGCGCCGAAGCCTGA (SEQ ID NO: 16)

Fig. 11

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPSCQAPTRPQALSTNQQRLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRV
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVGVLEQQLVE
 VEETVRQFRGAVGEQLGKMRLFLAALEGS LDREAERVGEAGVALRRELGSLKSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPVISDDFKFQV
 WRKMFRA LMPAMQELTFDPSTAHP SLVLSASGRRVECSEQKAPPAGEDPRQFDKAVAV
 VTHQLLSEGEHYWEVEVGDKPRWALGVIGA QAGRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRTPERRPSRIGIYLSFADGVLSFYDASDADALELLFAFHERLPGPVY
 PFFDVCWHDKGKNAQPLLLVGPDSGGEA (SEQ ID NO: 11)

ATGTCAGCTGCGCCCGGCTCCTGCACCAGGAGCTGTCCTGTCCGCTGTGCCTGCAGCTGTTTCGATGCGC
 CGGTGACGGCTGAGTGCGGCCACAGCTTCTGCCGCGCTGCTGGGCCGCGTGGCAGGGGAGCCAGCCGC
 GGATGGCACGGTGCTCTGCCCCAGCTGCCAGGCACCCACGCGGCCGCGAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGACCGCGTGCTCGTGTGCGGCGTCTGCGCCTCGCTGGGTTTCGACCCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCCATGCGCGCCTTAAGACGCAGCTCCCGCAGCAGAAGCTGCAGCTG
 CAGGAGGCGTGTATGCGGAAGGAGAAGAGCGTGGGTGTGCTGGAGCAACA ACTGGTGGAAAGTGGAGGAGA
 CGGTGCGTCAGTTCCGGGGGGCAGTGGGGGAGCAGCTGGGCAAGATGCGGTTGTTCTGCTGCACTGGA
 GGGCTCCTTGGACCGAGAAGCAGAGCGTGTGCGGGGTGAGGCGGGGGTTCGCTTTCGCGAGGGGAGCTGGGG
 AGCCTGAAGTCTTACTTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCAGACAAGCCCC
 AGACCGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCGCCCCC
 ACCTGCCCCGCTGGACATTCAGCTGCCTGTCATCTCAGACGACTTCAAATTCCAGGTGTGGAGAAAGATG
 TTCCGGGCCCTGATGCCAGCGATGCAGGAGCTGACCTTTGACCCAGCACGGCCACCCGAGCCTGGTGC
 TGTCGGCCTCGGGCCGCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCGGCGGAGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGACGCACCAGCTGCTGTGCGGAAGGCGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCGCTGGGCGTGATCGGGGCCAGGCCGGTCGCCGCGGCGGCTGCACG
 CCGTGCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGCGAGGGCAAGATCCTGGAGGCTCACGTCGAGGC
 CAAGGAGCCGCGCGCCCTGCGCACCCCGGAGAGGCGGCCGTCGCGCATCGGGATCTACCTGAGCTTCGCG
 GATGGCGTCTCTCGTTCTACGACGCCAGCGACGCCGACGCGCTGGAGCTGCTCTTCGCCTTCACGAAC
 GCCTGCCGGGGCCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAAGCTCAGCCGCT
 CCTGCTGGTGGGGCCGACAGCGGCGGGGAGGCCTGA (SEQ ID NO: 17)

Fig. 12

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLSRVAGE
PAADGTVPCPCQALTRPQALSTNQQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRA
LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVALLEHQLME
VEEMVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPVISDDFKFQV
WRKMFRALMPVTKELTFDPSSAHPSLVLSPSGRRVECDQKAPPAGEDPCQFDKAVAV
VAQQVLSDGEHYWEVQVGEKPRWALGVIAAQASRRGRLHAVPSQGLWLLGLRDGKILE
AHVEAKEPRALRTPERRPTRIGIYLSFGDGVLSFYDASDPDALELLFAFHERLPGPVY
PFFDVCWHDKGKNAQPLLLVGPDGEEA (SEQ ID NO: 12)

ATGTCGGCCGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTCTGCCTGCAGCTGTTTGACGCGC
CGGTGACCGCCGAGTGCGGCCACAGTTTCTGCCGCGCCTGCCTGAGCCGCGTGGCTGGGGAGCCGGCGGC
GGACGGCACCGTGCCCTGCCCGTGCTGCCAGGCACTCACGCGGCCACAGGCGCTCAGCACCAACCAGCAG
CTGGCGCGCCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
GCATCTACTGCGAGCAGGATCGAGCGCTCGTGTGCGGCGTGTGCGCCTCGCTCGGCTCGCACCGCGGCCA
CCGCTGCTGCCCGCCGCCGAAGCCACGCGCGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
CAGGAGGCATGTATGCGCAAGGAGAAGAGTGTGGCTCTGCTGGAGCATCAGCTCATGGAAGTGGAGGAGA
TGGTGCGTCAGTTCCGGGGGGCTGTAGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
GGGCTCCTTGGACCGTGAGGCAGAGCGCTGCGGGGAGAGGCAGGGGTGCTGCGGCGGGAGCTGGGG
AGCCTGAACTCTTACCTGGAGCAGTTGCGTCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCAC
AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTACAGAAGATCCTGGCAGAAGCACCACC
GCCTGCCCCTTTGGACATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
TTCCGGGCTCTGATGCCAGTTACAAAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGC
TGTCTCCCTCCGGTCGCCGCGTGAGTGCTCGGACCAGAAGGCGCCGCCGGCCGGGGAGGATCCGTGCCA
GTTTCGACAAGGCCGTGGCGGTGGTGGCGCAGCAGGTGCTGTCCGACGGCGAGCACTACTGGGAGGTGCAG
GTGGGCGAGAAGCCGCGCTGGGCCCTCGGCGTGATCGCGGCCAGGCCAGCCGCCGCGGCCGGCTGCACG
CCGTCCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGGGACGGCAAGATCCTGGAGGCGCACGTGGAAGC
CAAGGAGCCGCGCGCTGCGCACCCCGGAGAGGCGGCCACGCGCATCGGGATCTACCTAAGCTTCGGC
GACGGAGTCCTCTCTTTTATGATGCCAGTGACCCCGACGCCCTCGAGCTGCTCTTTGCCTTCACGAGC
GCCTGCCC GGCCCGTGTACCCCTTCTTCGACGTATGCTGGCACGACAAGGGCAAAAATGCTCAGCCGCT
GCTGCTGGTGGGGCCTGATGGCGAGGAGGCCTGA (SEQ ID NO: 18)

Fig. 13

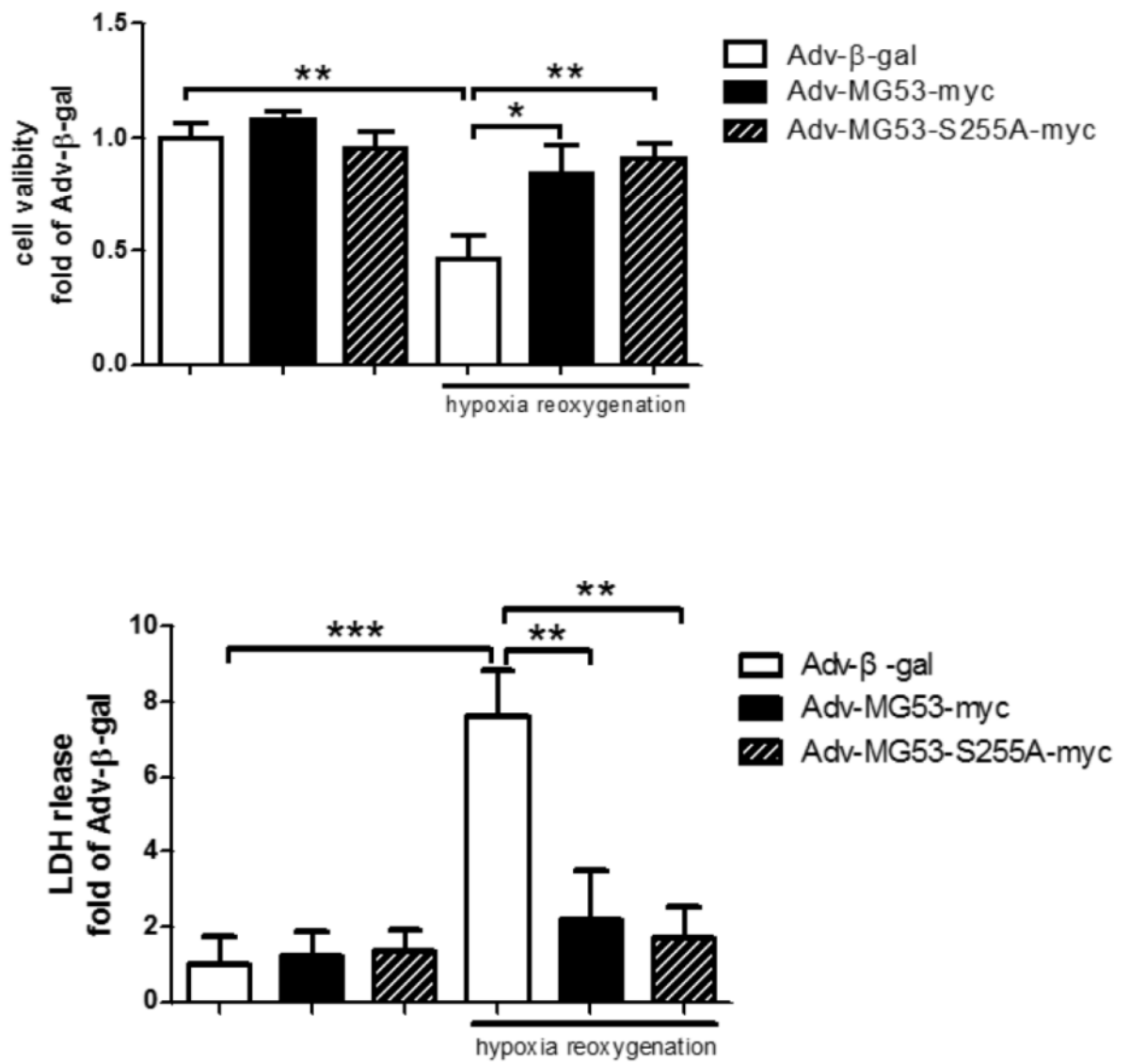


Fig. 14

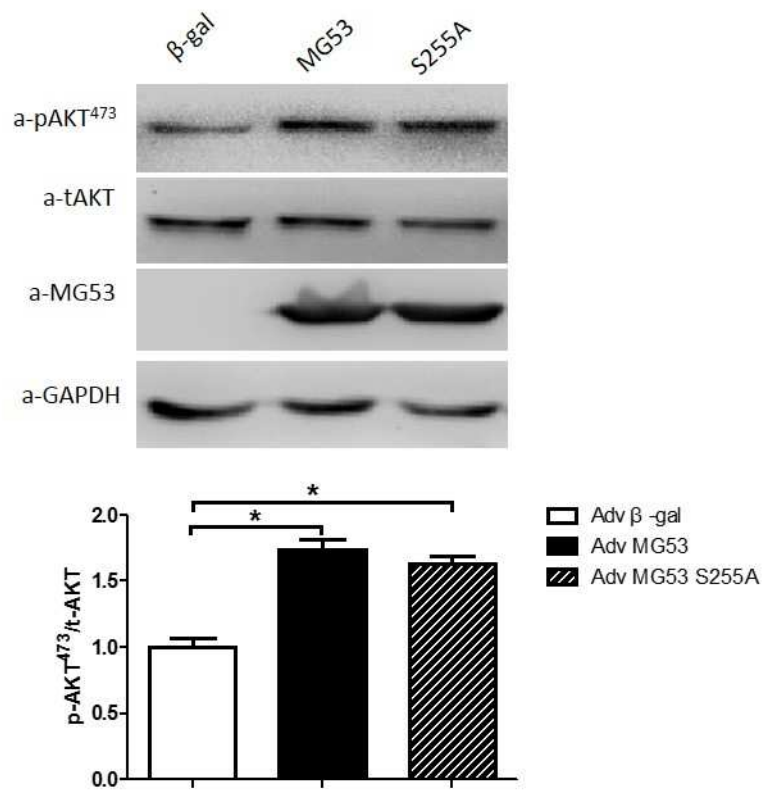
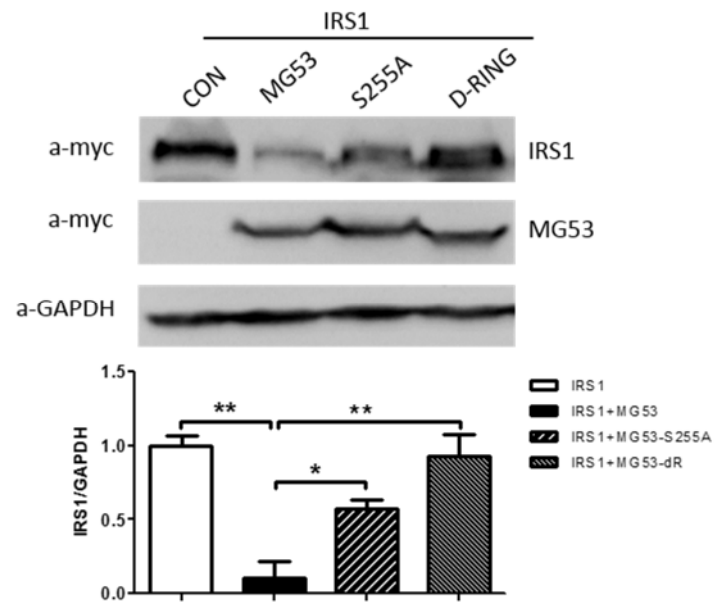
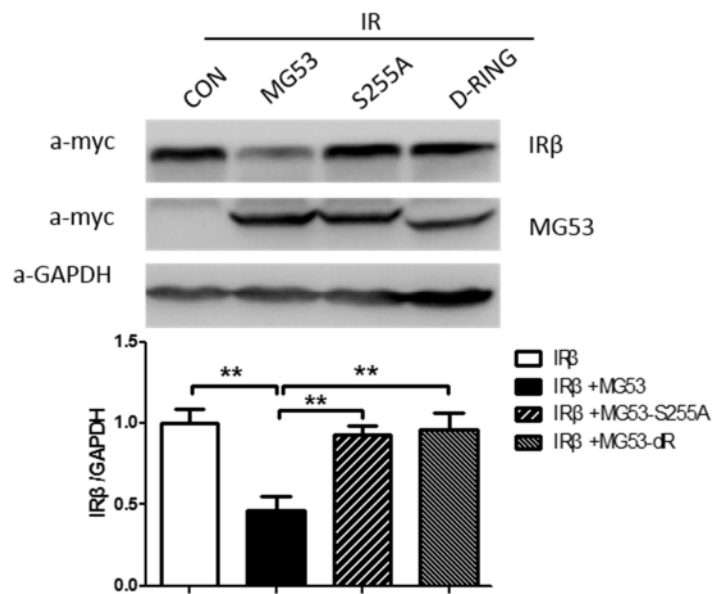


Fig. 15

A**B****Fig. 16**

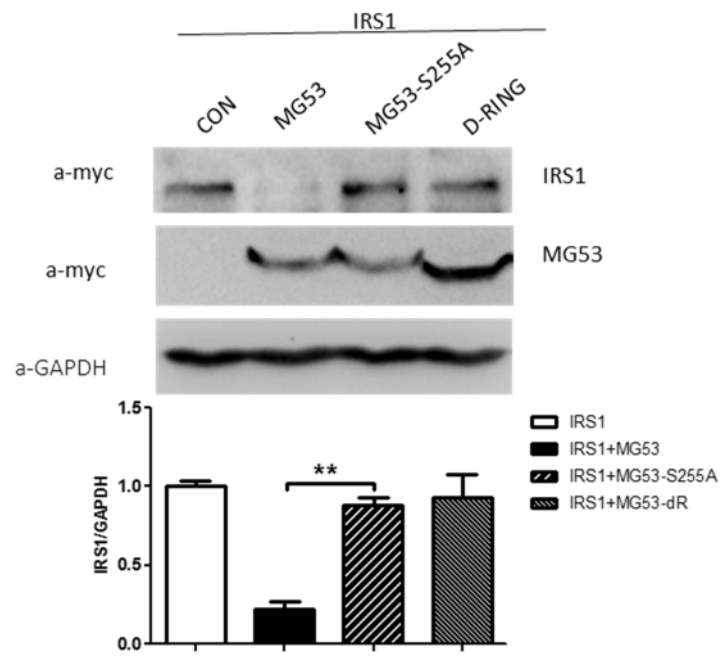


Fig. 17

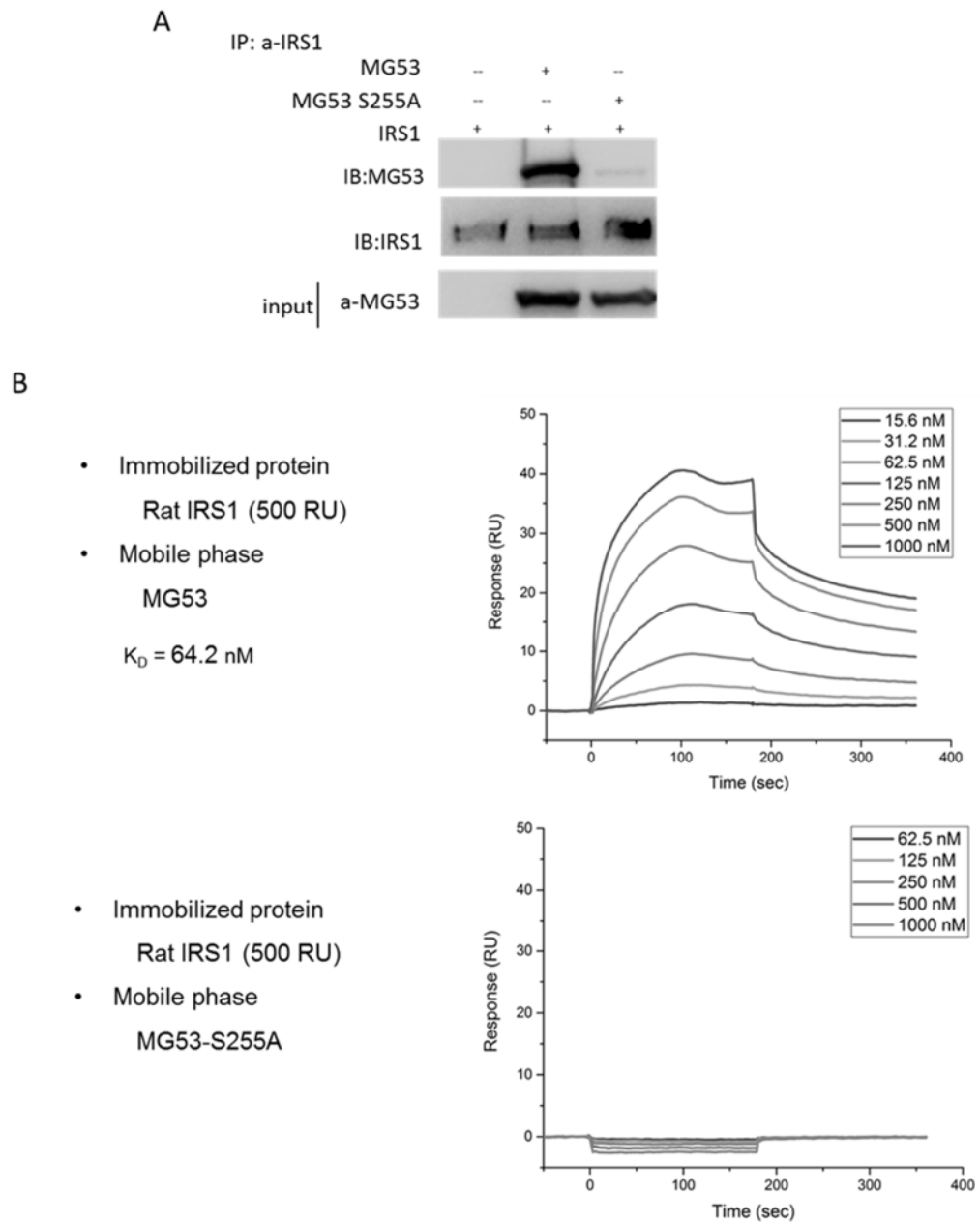


Fig. 18

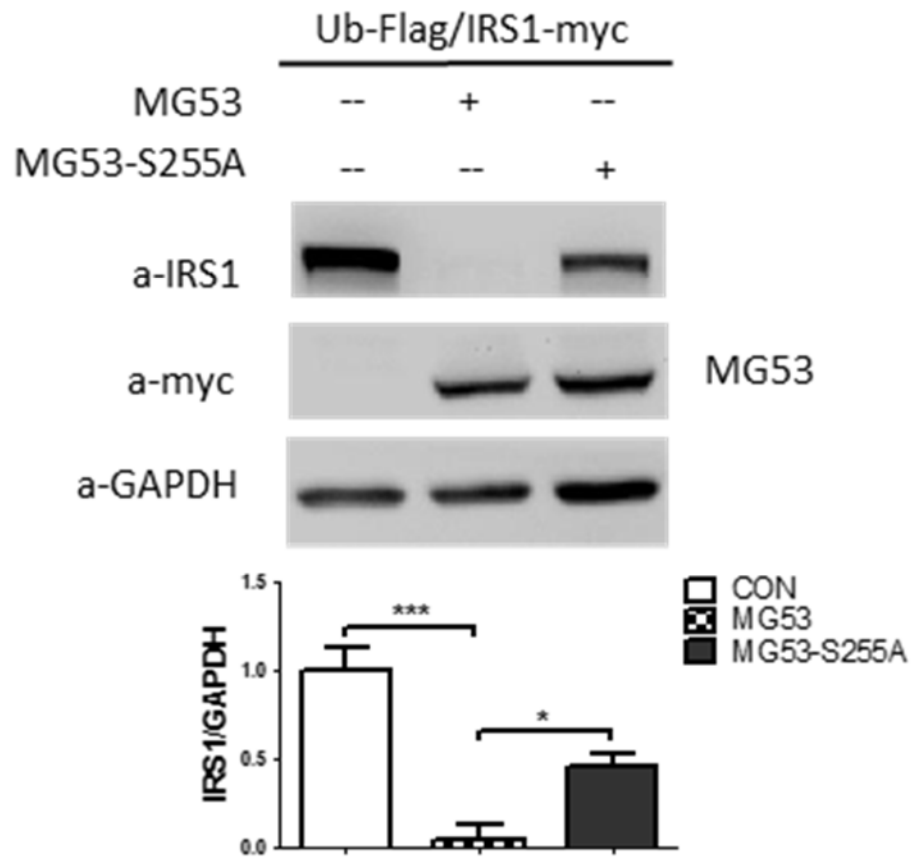


Fig. 19

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQCAPT
 RPQALSTNLQ LARLVEGLAQ VPQGHCEEHL DPLSIYCEQD RALVCGVCAS LGSHRGHRLI
 PAAEAHARLK TQLPQQKLQL QEACMRKEKS VAVLEHQLVE VEETVRQFRG AVGEQLGKMR
 VFLAALEGLS DCEAERVGRG AGVALRRELG SLNSYLEQLR QMEKVL EEVA DKPQTEFLMK
 YCLVTSRLQK ILAESPPPAR LDIQLPIISD DFKFQVWRKM FRALMPALEE LTFDPSSAHP
 SLVVSSSGRR VECSEQKAPP AGEDPRQFDK AVAVVAHQQL SEGEHYWEVD VGDKPRWALG
 VIAAEAPRRG RLHAVPSQGL WLLGLREGKI LEAHVEAKEP RALRSPERRP TRIGLYLSFG
 DGVLSFYDAS DADALVPLFA FHERLPRPVY PFFDVCWHDK GKNAQPLLLV GPEGAEA
 (SEQ ID NO: 139)

atgtcggctg cgcccgccct cctgcaccag gagctgtcct gcccgctgtg cctgcagctg
 ttgcagcgcg ccgtgacagc cgagtgcggc cacagtttct gccgcgcctg cctaggccgc
 gtggccgggg agccggcggc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tgggtggagg gctggcccag
 gtgccgcagg gccactgcga ggagcacctg gacccgctga gcatctactg cgagcaggac
 cgcgcgctgg tgtgcggagt gtgcgcctca ctgcggctcg accgcggtca tcgcctcctg
 cctgccgccg agggccacgc acgcctcaag acacagctgc cacagcagaa actgcagctg
 caggaggcat gcatgcgtaa ggagaagagt gtggctgtgc tggagcatca gctgggtggag
 gtggaggaga cagtgcgtca gttccggggg gccgtggggg agcagctggg caagatgcgg
 gtgttcctgg ctgcaactgga gggctccttg gactgcgagg cagagcgtgt acggggtgag
 gcaggggtcg ccttgcgccg ggagctgggg agcctgaact cttacctgga gcagctgcgg
 cagatggaga aggtcctgga ggaggtggcg gacaagccgc agactgagtt cctcatgaaa
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 ttccgggctc tgatgccagc gctggaggag ctgacctttg acccgagctc tgcgcacccg
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 tccgagggcg agcactactg ggaggtggat gttggcgaca agccgcgctg ggcgctgggc
 gtgatcgcgg ccgaggcccc ccgcccgggg cgctgcacg cggtgccctc gcagggcctg
 tggctgctgg ggctgcgcga gggcaagatc ctggaggcac acgtggaggc caaggagccg
 cgcgctctgc gcagccccga gaggcggccc acgcgcattg gcctttacct gagcttcggc
 gacggcgtcc tctccttcta cgatgccagc gacgccgacg cgctcgtgcc gctttttgcc
 ttccacgagc gcctgcccag gcccggtgtac cccttcttcg acgtgtgctg gcacgacaag
 ggcaagaatg cccagccgct gctgctcgtg ggtcccgaag gcgccgaggc ctga (SEQ
 ID NO: 143)

Fig. 20

MRKEKSVAVL EHQLVEVEET VRQFRGAVGE QLGKMRVFLA ALEGSLDREA ERVRGEAGVA
 LRRELGSLNS YLEQLRQMEK VLEEVDKPQ TEFLMKYCLV TSRLQKILAE SPPPARLDIQ
 LPIISDDFKF QVWRKMFRL MPALEELTFD PSSAHPSLVV SSSGRRVECS EQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGVL SFYDASDADA LVPLFAFHER
 LPRPVYPFFD VCWHDKGKNA QPLLLVGPEG AEA (SEQ ID NO: 140)

atgcgcaagg agaagagtgt ggctgtgctg gagcatcagc tgggtggaggt ggaggagaca
 gtgcgtcagt tccggggggc cgtgggggag cagctgggca agatgcgggt gttcctggct
 gcactggagg gtccttggga ccgcgaggca gagcgtgtac ggggtgaggc aggggtcgcc
 ttgcgccggg agctggggag cctgaactct tacctggagc agctgcggca gatggagaag
 gtcctggagg aggtggcgga caagccgcag actgagttcc tcatgaaata ctgcctgggt
 accagcaggc tgcagaagat cctggcagag tctccccac ccgcccgtct ggacatccag
 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatgtt ccgggctctg
 atgccagcgc tggaggagct gacctttgac ccgagctctg cgcacccgag cctggtgggt
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 cactactggg aggtggatgt tggcgacaag ccgcgctggg cgctgggcgt gatcgcggcc
 gaggcccccc gccgcgggcg cctgcacgcg gtgccctcgc agggcctgtg gctgctgggg
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 agccccgaga ggcgggccac gcgcattggc ctttacctga gcttcggcga cggcgtcctc
 tccttctacg atgccagcga cgccgacgcg ctcgtgccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtacct cttcttcgac gtgtgctggc acgacaaggg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaaggc gccgaggcct ga (SEQ ID NO: 144)

Fig. 21

MRKEKSVAVL EHQLVEVEET VRQFRGAVGE QLGKMRVFLA ALEGSLDREA ERVRGEAGVA
 LRRELGSLNS YLEQLRQMEK VLEEVDKPQ TEFLMKYCLV TSRLQKILAE SPPPARLDIQ
 LPIISDDFKF QVWRKMFRAI MPAL EELTFD PSSAHPSLVV SSSGRRVECS GQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGVV SFYDASDADA LVPLFAFHER
 LPRPVYPFFD VCWHDKGKNA QPLLLVGPEG AEA (SEQ ID NO: 141)

atgcgtaagg agaagagtgt ggctgtgctg gagcatcagc tgggtggaggt ggaggagaca
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 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatgtt ccgggctctg
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 cactactggg aggtggatgt tggcgacaag ccgcgctggg cgctgggcgt gatcgcggcc
 gagggcccc gccgcgggcg cctgcacgcg gtgccctcgc agggcctgtg gctgctgggg
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 ctgcccaggc ccgtgtaccc cttcttcgac gtgtgctggc acgacaaggg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaaggc gccgaggcct ga (SEQ ID NO: 145)

Fig. 22

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQAPT
 RPQALSTNLQ LARLVEGLAQ VPQGHCEEHL DPLSIYCEQD RALVCGVCAS LGSHRGHRL
 PAAEAHARLK TQLPQQKLQL QEACMRKEKS VAVLEHQLVE VEETVRQFRG AVGEQLGKMR
 VFLAALEGLS DREAERVGE AGVALRRELG SLNSYLEQLR QMEKVLEEVA DKPQTEFLMK
 YCLVTSRLQK ILAESPAPPAR LDIQLPIIS (SEQ ID NO: 142)

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 gtggccgggg agccggcggc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tgggtggaggg gctggcccag
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 gcaggggtcg ctttgcgccg ggagctgggg agcctgaact cttacctgga gcagctgcgg
 cagatggaga aggtcctgga ggaggtggcg gacaagccgc agactgagtt cctcatgaaa
 tactgcctgg tgaccagcag gctgcagaag atcctggcag agtctcccc acccgcccgt
 ctggacatcc agctgccaat tatctcctga (SEQ ID NO: 146)

Fig. 23

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQCAPT
 RPQALSTNLQ LARLVEGLAQ VPQGHCEEHL DPLSIYCEQD RALVCGVCAS LGSHRGHRL
 PAAEAHARLK TQLPQQKLQL QEACMRKEKS VAVLEHQLVE VEETVRQFRG AVGEQLGKMR
 VFLAALEGLS DCEAERVGRG AGVALRRELG SLNSYLEQLR QMEKVL EEVA DKPQTEFLMK
 YCLVTSRLQK ILAEAPPPAR LDIQLPIISD DFKFQVWRKM FRALMPALEE LTFDPSSAHP
 SLVVSSSGRR VECSEQKAPP AGEDPRQFDK AVAVVAHQQL SEGEHYWEVD VGDKPRWALG
 VIAAEAPRRG RLHAVPSQGL WLLGLREGKI LEAHVEAKEP RALRSPERRP TRIGLYLSFG
 DGVLSFYDAS DADALVPLFA FHERLPRPVY PFFDVCWHDK GKNAQPLLLV GPEGAEA
 (SEQ ID NO: 147)

atgtcggctg cgcccgccct cctgcaccag gagctgtcct gcccgctgtg cctgcagctg
 ttgcagcgcg ccgtgacagc cgagtgcggc cacagtttct gccgcgcctg cctaggccgc
 gtggccgggg agccggcggc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tgggtggagg gctggcccag
 gtgccgcagg gccactgcga ggagcacctg gacccgctga gcatctactg cgagcaggac
 cgcgcgctgg tgtgcggagt gtgcgcctca ctgcgctcgc accgcggtca tcgcctcctg
 cctgccgccg agggccacgc acgcctcaag acacagctgc cacagcagaa actgcagctg
 caggaggcat gcatgcgtaa ggagaagagt gtggctgtgc tggagcatca gctggtggag
 gtggaggaga cagtgcgtca gttccggggg gccgtggggg agcagctggg caagatgcgg
 gtgttcctgg ctgcaactgga gggctccttg gactgcgagg cagagcgtgt acggggtgag
 gcaggggtcg ccttgcgccg ggagctgggg agcctgaact cttacctgga gcagctgcgg
 cagatggaga aggtcctgga ggaggtggcg gacaagccgc agactgagtt cctcatgaaa
 tactgcctgg tgaccagcag gctgcagaag atcctggcag aggctcccc acccgcccgt
 ctggacatcc agctgccaat tatctcagat gacttcaa at tccagggtgtg gaggaagatg
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 agcctggtgg tgtcttcctc tggccgccgc gtggagtgtc cggagcagaa ggcgccgccg
 gccggggagg acccgcgcca gttcgacaag gcggtggcgg tgggtggcgca ccagcagctc
 tccgagggcg agcactactg ggaggtggat gttggcgaca agccgcgctg ggcgctgggc
 gtgatcgcgg ccgaggcccc ccgccgcggg cgctgcacg cggtgccctc gcagggcctg
 tggctgctgg ggctgcgcga gggcaagatc ctggaggcac acgtggaggc caaggagccg
 cgcgctctgc gcagccccga gaggcggccc acgcgcattg gcctttacct gagcttcggc
 gacggcgtcc tctccttcta cgatgccagc gacgccgacg cgctcgtgcc gctttttgcc
 ttccacgagc gcctgcccag gcccggtgtac cccttcttcg acgtgtgctg gcacgacaag
 ggcaagaatg cccagccgct gctgctcgtg ggtcccgaag gcgccgaggc ctga (SEQ

ID NO: 151)

Fig. 24

MRKEKSVAVL EHQLVEVEET VRQFRGAVGE QLGKMRVFLA ALEGSLDREA ERVRGEAGVA
 LRRELGSLNS YLEQLRQMEK VLEEVDKPQ TEFLMKYCLV TSRLQKILAE APPPARLDIQ
 LPIISDDFKF QVWRKMFRAL MPALEELTFD PSSAHPSLVV SSSGRRVECS EQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGV L SFYDASDADA LVPLFAFHER
 LPRPVYPFFD VCWHDKGKNA QPLLLVGPEG AEA (SEQ ID NO: 148)

atgcgcaagg agaagagtgt ggctgtgctg gagcatcagc tgggtggaggt ggaggagaca
 gtgcgtcagt tccggggggc cgtgggggag cagctgggca agatgcgggt gttcctggct
 gcactggagg gctccttgga ccgcgaggca gagcgtgtac ggggtgaggc aggggtcgcc
 ttgcgccggg agctggggag cctgaactct tacctggagc agctgcggca gatggagaag
 gtcctggagg aggtggcgga caagccgcag actgagttcc tcatgaaata ctgcctgggtg
 accagcaggc tgcagaagat cctggcagag gctccccac ccgcccgtct ggacatccag
 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatgtt ccgggctctg
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 tcttcctctg gccgccgct ggagtgtctg gagcagaagg cgccgccggc cggggaggac
 ccgcgccagt tcgacaaggc ggtggcggtg gtggcgacc agcagctctc cgagggcgag
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 gagggcccc gccgcgggc cctgcacgc gtgccctcgc agggcctgtg gctgctgggg
 ctgcgcgagg gcaagatcct ggaggcacac gtggaggcca aggagccgc cgctctgcgc
 agccccgaga ggcgggccac gcgcattggc ctttacctga gcttcggcga cggcgctctc
 tccttctacg atgccagcga cgccgacgc ctcgtgccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtaccc cttcttcgac gtgtgctggc acgacaagg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaagg gccgaggcct ga (SEQ ID NO: 152)

Fig. 25

MRKEKSVAVL EHQLVEVEET VRQFRGAVGE QLGKMRVFLA ALEGSLDREA ERVRGEAGVA
 LRRELGSLNS YLEQLRQMEK VLEEVADKPQ TEFLMKYCLV TSRLQKILAE APPPARLDIQ
 LPIISDDFKF QVWRKMFRAI MPAL EELTFD PSSAHPSLVV SSSGRRVECS GQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGVL SFYDASDADA LVPLFAFHER
 LPRPVYPFFD VCWHDKGKNA QPLLLVGPEG AEA (SEQ ID NO: 149)

atgcgtaagg agaagagtgt ggctgtgctg gagcatcagc tgggtggaggt ggaggagaca
 gtgcgtcagt tccggggggc cgtgggggag cagctgggca agatgcgggt gttcctggct
 gcactggagg gctccttgga ccgcgaggca gagcgtgtac ggggtgaggc aggggtcgcc
 ttgcgccggg agctggggag cctgaactct tacctggagc agctgcggca gatggagaag
 gtcctggagg aggtggcgga caagccgcag actgagttcc tcatgaaata ctgcctggtg
 accagcaggc tgcagaagat cctggcagag gctccccac ccgcccgtct ggacatccag
 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatggt ccgggctctg
 atgccagcgc tggaggagct gacctttgac ccgagctctg cgcacccgag cctggtggtg
 tcttcctctg gccgccgcgt ggagtgtctg gggcagaagg cgccgccggc cggggaggac
 ccgcgccagt tcgacaaggc ggtggcggtg gtggcgcacc agcagctctc cgagggcgag
 cactactggg aggtggatgt tggcgacaag ccgcgctggg cgctgggcgt gatcgcggcc
 gaggcccccc gccgcgggag cctgcacgcg gtgccctcgc agggcctgtg gctgctgggg
 ctgcgcgagg gcaagatcct ggaggcacac gtggaggcca aggagccgcg cgctctgcgc
 agccccgaga ggcgggccac gcgcattggc ctttacctga gcttcggcga cggcgtcctc
 tccttctacg atgccagcga cgccgacgcg ctcgtgccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtacct cttcttcgac gtgtgctggc acgacaaggg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaaggc gccgaggcct ga (SEQ ID NO: 153)

Fig. 26

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQAPT
 RPQALSTNLQ LARLVEGLAQ VPQGHCEEHL DPLSIYCEQD RALVCGVCAS LGSHRGHRL
 PAAEAHARLK TQLPQQKLQL QEACMRKEKS VAVLEHQLVE VEETVRQFRG AVGEQLGKMR
 VFLAALEGLS DREAERVGE AGVALRRELG SLNSYLEQLR QMEKVLEEVA DKPQTEFLMK
 YCLVTSRLQK ILAEAPPPAR LDIQLPIIS (SEQ ID NO: 150)

atgtcggctg cgcccgccct cctgcaccag gagctgtcct gcccgctgtg cctgcagctg
 ttcgacgcgc ccgtgacagc cgagtgcggc cacagtttct gccgcgcctg cctaggccgc
 gtggccgggg agccggcggc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tggaggagg gctggcccag
 gtgccgcagg gccactgcga ggagcacctg gacccgctga gcatctactg cgagcaggac
 cgcgcgctgg tgtgaggagt gtgcgcctca ctgggctcgc accgcgggtca tgcctcctg
 cctgccgccg agggccacgc acgcctcaag acacagctgc cacagcagaa actgcagctg
 caggaggcat gcatgcgtaa ggagaagagt gtggctgtgc tggagcatca gctgggtggag
 gtggaggaga cagtgcgtca gttccggggg gccgtggggg agcagctggg caagatgcgg
 gtgttcctgg ctgcactgga gggctccttg gaccgcgagg cagagcgtgt acggggtgag
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 cagatggaga aggtcctgga ggaggtggcg gacaagccgc agactgagtt cctcatgaaa
 tactgcctgg tgaccagcag gctgcagaag atcctggcag aggctcccc acccgcccgt
 ctggacatcc agctgccaat tatctcctga (SEQ ID NO: 154)

Fig. 27

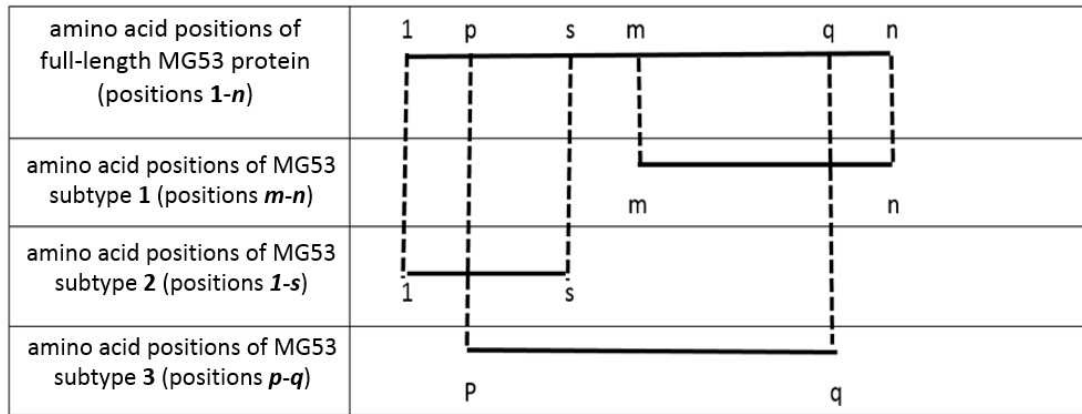


Fig. 28