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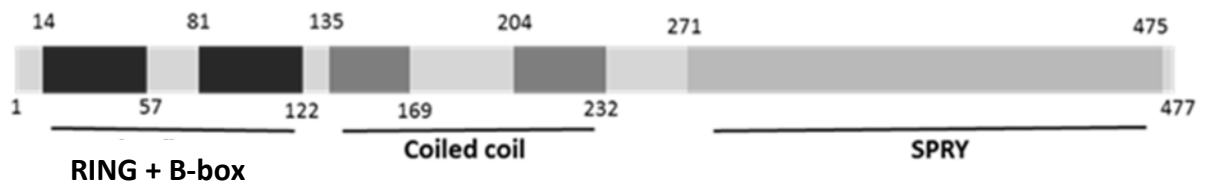


Fig. 1

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVRGEAGVALRRELGSLNSYLEQ
 LRQMEKVLEEVDKPKQTEFLMKYCLVTSRLQKILAESP PPARLDIQLPIISDDFKFQV
 WRKMFRA LMPALEELTFDPSSAHPSLVSSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPVY
 PFFDVCWHDKGKNAQPLLLVGPEGAEA (SEQ ID NO: 1)

ATGTCGGCTGCGCCCGGCCTCCTGCACCAGGAGCTGTCCTGCCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
 CCGTGACAGCCGAGTGCGGCCACAGTTTCTGCCGCGCCTGCCTAGGCCGCGTGCCGGGGAGCCGGCGGC
 GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGGCCGCGAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGCGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
 TCGCCTCCTGCCTGCCGCCGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGCGAGGCAGAGCGTGTACGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCTGGAGGAGGTGGCGGACAAGCCGC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTTCTCTGGCCGCCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCCGGCCGGGGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGGCGCACCAAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGAT
 GTTGGCGACAAGCCGCGCTGGGCGCTGGGCGTGATCGCGGCCGAGGCCCGCCGCGGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGAGGCGGCCACGCGCATTGGCCTTTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCCAGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCGCT
 GCTGCTCGTGGGTCCCGAAGGCGCCGAGGCCTGA (SEQ ID No: 19)

Fig. 2

MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PAADGTVACPCCQAPTRPQALSTNLQLSRLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMLQEACMRKEKTVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVRGDAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQV
 WKKMFRA LMPALEELTFDPSSAHP SLVSSSGRRVECDQKAPPAGEDTRQFDKAVAV
 VAQQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLA FYDASNPDLTPIFS FHERLPGPVY
 PIFDVCWHDKGKNAQPLLLVGPEQEQA (SEQ ID NO: 2)

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

Fig. 3

MSTAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PADDGTVACPCCQASTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKAQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVGEAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQV
 WKKMFALMPELEELTFDPSSAHPSLVVSASGRRVECSEQKAPPAGEDTCQFDKTVAV
 VAKQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLTIFYDASNTDALTPLFSFHERLPGPVY
 PMFDVCWHDKGKNSQPLLLVGPDSEQA (SEQ ID NO: 3)

ATGTCGACTGCACCAGGCCTTTTGCGCCAGGAAGTGTCTTGCCCGCTGTGCTTGCAGCTGTTTCGATGCAC
 CAGTGACCGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGTGTGGCAGGGGAGCCTGCCGA
 CGATGGCACGGTTGCCTGTCCCTGTTGTGTCAGGCATCTACTCGGCCACAGGCGCTAAGCACTAACCTCCAG
 TTGGCACGCCCTTGTGGAGGGTTTGGCACAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCTCTCGGTTTCACACCGTGGTCA
 CCGTCTTCTGCCTGCCGAGAGCCCATGCACGTCTCAAGACACAGCTTCCACAACAGAAGGCCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCAGTCTGAGCATCAGCTGGTGGAGGTGGAGGAGA
 CCGTGCGTCAGTTCCGGGGAGCTGTTGGGGAGCAGCTGGGGAAGATGCGGATGTTCTGGCTGCCCTAGA
 AAGTTCTTTGGACCGTGAAGCAGAAAGGGTTTCAGAGTGAGGCAGGGGTTGCCTTGCGGCGGGAGCTGTCA
 AGCCTGAACTCTTACCTGGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTGACCAGCAGGCTGCAGAAGATTCTGTCAGAGTCACCACC
 CCCAGCAAGGCTAGATATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGAGTTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCCGCTCTGGTGCCTGAGTGAGTGTGCTCGGAGCAGAAGGCGCCGAGCAGGAGAAGACACGTGCCA
 GTTCGACAAGACGGTAGCGGTAGTGCGAAGCAGCTGCTGTACAGGGGGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCCCTGGGTGTGATGGCGGCTGACGCTTCCCGTCGTGGCCGCCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGTTGCTCGGCCTGCGCGATGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCACGGGCACTGCGCACCCAGAGAGGCCACCGCGCGCATTGGCCTCTACCTAAGCTTTGCA
 GATGGCGTCCTGACTTTCTATGATGCAAGCAACACCGACGCGCTTACACCGCTCTTTTCTTTTCATGAGC
 GTCTGCCTGGGCCGGTGTACCCCATGTTTGACGTGTGCTGGCACGACAAGGGCAAGAATTCTCAGCCGCT
 GTTGCTCGTGGGGCCAGACAGTGAGCAGGCCTGA (SEQ ID NO: 21)

Fig. 4

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

ATGTCGGCTGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
CCGTGACAGCCGAGTGCGGCCACAGTTTCTGTCGCGCCTGCCGCGCGCTGGCCGGGGAACCGGCGGC
GGATGGCACCGTTCTCTGCCCTGCTGTGCAGGCCCCACGCGGCCGCAGGCACTCAGCACCAACCTGCAG
CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCGCAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
GCATCTACTGTGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTCACTCGGCTCGCACCGCGGTCA
TCGCCTGCTGCCCGCCGCCGAGGCCACGCACGCCTCAAGACGCAGCTGCCACAGCAGAACTGCAGCTG
CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCTGTGCTGGAGCATCAGTTGGTGGAAAGTGGAGGAGA
CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
GGGCTCCTTGGACCGTGAGGCAGAGCGTGTGCGGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCGC
AGACTGAGTTCCTAATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCCC
ACCCGCCCCGTCTGGACATCCAGCTGCCAATCATCTCAGATGACTTCAAATTCCAGGTGTGGAGGAAGATG
TTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCAGCCTGGTGG
TGTCTTCCTCCGGCCGCCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCCGGCGGGGAGGACCCGCGCCA
GTTTCGACAAGGCGGTAGCGGTGGTGGCGCACCAGCAGCTCTCCGAGGGCGAACACTACTGGGAGGTGGAG
GTGGGCGACAAGCCGCGCTGGGCGCTGGGTGTGATCGCGGCCGAGGGGCCCCGTCGCGGGCGCCTGCACG
CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGTGAGGGCAAGATCCTGGAGGCTCACGTGGAGGC
CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGCGGCGGCCACGCGCATCGGCCTCTACCTGAGCTTCGGC
GACGGCGTCTCTCTTCTACGATGCCAGCGACGCGGACGCGCTCGTGCCGCTTTTTGCCTTCACGAGC
GCCTGCCTGGGCCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAACTCCCAGCCGCT
GCTGCTCGTGGGGTCCGAAGGCGCCGAAGCCTGA (SEQ ID NO: 22)

Fig. 5

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

ATGTCAGCTGCGCCCGGCTCCTGCACCAGGAGCTGTCCTGTCCGCTGTGCCTGCAGCTGTTTCGATGCGC
 CGGTGACGGCTGAGTGCGGCCACAGCTTCTGCCGCGCTGCTGGGCCGCGTGGCAGGGGAGCCAGCCGC
 GGATGGCACGGTGCTCTGCCCCAGCTGCCAGGCACCCACGCGGCCGCGAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGACCGCGTGCTCGTGTGCGGCGTCTGCGCCTCGCTGGGTTTCGACCCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCCATGCGCGCTTAAGACGCAGCTCCCGCAGCAGAAGCTGCAGCTG
 CAGGAGGCGTGTATGCGGAAGGAGAAGAGCGTGGGTGTGCTGGAGCAACA ACTGGTGGAAGTGGAGGAGA
 CGGTGCGTCAGTTCCGGGGGGCAGTGGGGGAGCAGCTGGGCAAGATGCGGTTGTTCTGGCTGCACTGGA
 GGGCTCCTTGGACCGAGAAGCAGAGCGTGTGCGGGGTGAGGCGGGGGTGCCTTGC GGAGGGAGCTGGGG
 AGCCTGAAGTCTTACTTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCAGACAAGCCCC
 AGACCGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCGCCCCC
 ACCTGCCCCGCTGGACATTCAGCTGCCTGTCATCTCAGACGACTTCAAATTCCAGGTGTGGAGAAAGATG
 TTCCGGGCCCTGATGCCAGCGATGCAGGAGCTGACCTTTGACCCAGCACGGCCACCCGAGCCTGGTGC
 TGTCGGCCTCGGGCCGCGCGTGAGTGCTCGGAGCAGAAGGCGCCGCGGCGGAGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGACGCACCAGCTGCTGTGCGGAAGGCGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCGCTGGGCGTGATCGGGGCCAGGCCGGTCGCCGCGGCCGGCTGCACG
 CCGTGCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGCGAGGGCAAGATCCTGGAGGCTCACGTCGAGGC
 CAAGGAGCCGCGCGCCCTGCGCACCCCGGAGAGGCGGCCGTCGCGCATCGGGATCTACCTGAGCTTCGCG
 GATGGCGTCTCTCGTTCTACGACGCCAGCGACGCCGACGCGCTGGAGCTGCTCTTCGCCTTCACGAAC
 GCCTGCCGGGGCCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAAGCTCAGCCGCT
 CCTGCTGGTGGGGCCCGACAGCGGCGGGGAGGCCTGA (SEQ ID NO: 23)

Fig. 6

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

ATGTCGGCCGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTCTGCCTGCAGCTGTTTGACGCGC
 CGGTGACCGCCGAGTGCGGCCACAGTTTCTGCCGCGCTGCTGAGCCGCGTGGCTGGGGAGCCGGCGGC
 GGACGGCACCGTGCCCTGCCCGTGCTGCCAGGCACTCACGCGGCCACAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGATCGAGCGCTCGTGTGCGGCGTGTGCGCCTCGCTCGGCTCGCACCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCACGCGCGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGTATGCGCAAGGAGAAGAGTGTGGCTCTGCTGGAGCATCAGCTCATGGAAGTGGAGGAGA
 TGGTGCGTCAGTTCCGGGGGGCTGTAGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGTGAGGCAGAGCGCTGCGGGGAGAGGCAGGGGTGCCCTGCGGCGGGAGCTGGGG
 AGCCTGAACCTTTACCTGGAGCAGTTGCGTCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCAC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTACAGAAGATCCTGGCAGAATCACCACC
 GCCTGCCCCTTTGGACATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGTTACAAAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGC
 TGTCTCCCTCCGGTGC CGCGTGGAGTGCTCGGACCAGAAGGCGCCGCCGGCCGGGGAGGATCCGTGCCA
 GTTCGACAAGGCCGTGGCGGTGGTGGCGCAGCAGGTGCTGTCCGACGGCGAGCACTACTGGGAGGTGCAG
 GTGGGCGAGAAGCCGCGCTGGGCCCTCGGCGTGATCGCGGCCAGGCCAGCCGCCGCGGCCGGCTGCACG
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 CAAGGAGCCGCGCGCTGCGCACCCCGGAGAGGCGGCCACGCGCATCGGGATCTACCTAAGCTTCGGC
 GACGGAGTCTCTCTTTTATGATGCCAGTGACCCCGACGCCCTCGAGCTGCTCTTTGCCTTCCACGAGC
 GCCTGCCC GGCCCGTGTACCCCTTCTTCGACGTATGCTGGCACGACAAGGGCAAAAATGCTCAGCCGCT
 GCTGCTGGTGGGGCTGATGGCGAGGAGGCCTGA (SEQ ID NO: 24)

Fig. 7

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGE
 PAADGTVLCPCCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPIISDDFKFQV
 WRKMFALMPALEELTFDPSSAHPSLVVSSSGRRVECSEQKAPPAGEDPRQFDKAVAV
 VAHQQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPVY
 PFFDVCWHDKGKNAQPLLLVGPEGAEA (SEQ ID NO: 7)

ATGTCGGCTGCGCCCGGCCTCCTGCACCAGGAGCTGTCCTGCCCCTGTGCCTGCAGCTGTTTCGACGCGC
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 GGATGGCACCGTTCTCTGCCCTGCTGCCAGGCCCCACGCGGCCGAGGCACTCAGCACCAACCTGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCGAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
 GCATCTACTGCGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
 TCGCCTCCTGCCTGCCGCCGAGGCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCATCAGCTGGTGGAGGTGGAGGAGA
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 GGGCTCCTTGGACCGCGAGGCAGAGCGTGTACGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCTGGAGGAGGTGGCGGACAAGCCGC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCTCCCCC
 ACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAGTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGG
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 GTTCGACAAGGCGGTGGCGGTGGTGGCGACCAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGAT
 GTTGGCGACAAGCCGCGCTGGGCGCTGGGCGTGATCGCGGCCGAGGCCCGCCGCGGGCGCCTGCACG
 CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATCCTGGAGGCACACGTGGAGGC
 CAAGGAGCCGCGCCTCTGCGCAGCCCCGAGAGGCGGCCACGCGCATTGGCCTTTACCTGAGCTTCGGC
 GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGC
 GCCTGCCAGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCGCT
 GCTGCTCGTGGGTCCCGAAGGCGCCGAGGCCTGA (SEQ ID NO: 13)

Fig. 8

MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGE
 PAADGTVACPCCQAPTRPQALSTNLQLSRLVEGLAQVPQGHCEEHLDP LSIYCEQDRT
 LVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMLQEACMRKEKTVAVLEHQLVE
 VEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVGRDAGVALRRELSSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKFCLVTSRLQKILSEAPPPARLDIQLPVISDDFKFQV
 WKKMFRALMPALEELTFDPSSAHP SLVVSSGRRVECDQKAPPAGEDTRQFDKAVAV
 VAQQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERPPARIGLYLSFADGVLA FYDASNPDLTPIFSHERLPGPVY
 PIFDVCWHDKGKNAQPLLLVGPEQEQA (SEQ ID NO: 8)

ATGTCGGCTGCACCCGGCCTTCTGCGTCAGGAAGTGCCTGCCCACTGTGCTTGCAGCTGTTCGATGCGC
 CAGTGACGGCTGAGTGTGGCCACAGTTTCTGCCGTGCCTGCCTGATCCGGGTGGCAGGGGAGCCTGCTGC
 GGACGGCACAGTTGCCTGTCCCTGTTGTGTCAGGCACCTACACGGCCGCAGGCTCTAAGCACTAACCTCCAG
 TTGTACAGCCTTGTGGAGGGTTTTGGCGCAAGTGCCCCAAGGCCACTGCGAGGAACACCTGGATCCACTGA
 GCATCTACTGCGAGCAGGACCGCACACTTGTGTGTGGTGTGTGTGCCTCGCTCGGTTCTCACC GTGGTCA
 TCGTCTCCTGCCTGCCGCTGAAGCCCAAGCACGCCTCAAGACACAGCTTCCACAGCAGAAGATGCAGCTG
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 CAGTGCGCCAGTTCCGGGGAGCTGTCGGGGAGCAGCTGGGGAAGATGCGGATGTTCTGCTGCCCTAGA
 AAGTTCTCTGGACCGTGAAGCAGAAAGGGTTCCGGGTGATGCTGGGGTTGCCTTGCCTGCGTGGGAGCTGTCA
 AGCCTGAAGTCTTACCTAGAGCAACTGAGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCTGACAAGCCAC
 AGACAGAATTCCTCATGAAATTCTGCCTGGTAACCAGCAGGCTGCAGAAGATCCTGTCAGAGGCACCACC
 ACCGGCAAGGCTAGATATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCCAGGTGTGGAAGAAGATG
 TTCCGGGCTCTGATGCCAGCGCTGGAGGAACTGACTTTTGACCCAGCTCTGCGCACCCGAGCCTGGTGG
 TGTCTCCTCTGGTGCCTGAGTGGAGTGCTCAGACCAGAAGGCGCCGAGCGGGAGAAGACACGCGTCA
 GTTCGACAAGGCAGTAGCGGTGGTGGCGCAGCAGCTGCTGTCACAGGGCGAGCACTATTGGGAGGTGGAG
 GTGGGCGACAAACCACGCTGGGCCCTGGGAGTGATGGCGGCTGACGCTTCCCGCCGTGGCCGGCTGCACG
 CGGTGCCCTCACAGGGGCTGTGGCTGCTGGGTCTGCGCGATGGCAAGATCCTGGAGGGCGCACGTGGAGGC
 CAAGGAGCCGCGGGCACTGCGCACCCCAAGAGGCCTCCGGCGCGCATTGGCCTCTACCTAAGCTTCGCA
 GATGGCGTCTGGCTTTCTATGATGCGAGCAACCCCGACGTACTTACGCCAATCTTTTCTTTCCACGAGC
 GTCTGCCCCGGGCGGTGTACCCCATCTTTGACGTGTGCTGGCACGACAAGGGCAAGAATGCCAGCCCCT
 GCTGCTTGTGGGGCCGGAGCAGGAACAGGCCTGA (SEQ ID NO: 14)

Fig. 9

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

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

Fig. 10

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

ATGTCGGCTGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTGTGCCTGCAGCTGTTTCGACGCGC
CCGTGACAGCCGAGTGCGGCCACAGTTTCTGTCGCGCCTGCCTGGGCCGCGTGGCCGGGGAACCGGCGGC
GGATGGCACCGTTCTCTGCCCTGCTGT CAGGCCCCACGCGGCCG CAGGCACTCAGCACCAACCTGCAG
CTGGCGCGCCTGGTGGAGGGGCTGGCCAGGTGCCG CAGGGCCACTGCGAGGAGCACCTGGACCCGCTGA
GCATCTACTGTGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTACTCGGCTCGCACCGCGGTCA
TCGCCTGCTGCCCGCCGCCGAGGCCACGCACGCCTCAAGACGCAGCTGCCACAGCAGAACTGCAGCTG
CAGGAGGCATGCATGCGCAAGGAGAAGAGTGTAGCTGTGCTGGAGCATCAGTTGGTGGAAGTGGAGGAGA
CAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
GGGCTCCTTGGACCGTGAGGCAGAGCGTGTGCGGGGTGAGGCAGGGGTGCGCTTGCGCCGGGAGCTGGGG
AGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCGC
AGACTGAGTTCCTAATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCTCCCCC
ACCCGCCCCGTCTGGACATCCAGCTGCCAATCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
TTCCGGGCTCTGATGCCAGCGCTGGAGGAGTGACCTTTGACCCGAGCTCTGCGCACCCAGCCTGGTGG
TGTCTTCTCCGGCCGCGCGTGGAGTGCTCGGAGCAGAAGGCGCCGCCGGCGGGGAGGACCCGCGCCA
GTTTCGACAAGGCGGTAGCGGTGGTGGCGACCAGCAGCTCTCCGAGGGCGAACACTACTGGGAGGTGGAG
GTGGGCGACAAGCCGCGCTGGGCGCTGGGTGTGATCGCGCCGAGGGGCCCGTCCGGGGCGCCTGCACG
CGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGTGAGGGCAAGATCCTGGAGGCTCACGTGGAGGC
CAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGCGGCGGCCACGCGCATCGGCCTCTACCTGAGCTTCGGC
GACGGCGTCTCTCTTCTACGATGCCAGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCACGAGC
GCCTGCCTGGGCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAACTCCCAGCCGCT
GCTGCTCGTGGGGTCCGAAGGCGCCGAAGCCTGA (SEQ ID NO: 16)

Fig. 11

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

ATGTCAGCTGCGCCCGGCTCCTGCACCAGGAGCTGTCCTGTCCGCTGTGCCTGCAGCTGTTTCGATGCGC
 CGGTGACGGCTGAGTGCGGCCACAGCTTCTGCCGCGCTGCTGGGCCGCGTGGCAGGGGAGCCAGCCGC
 GGATGGCACGGTGCTCTGCCCCAGCTGCCAGGCACCCACGCGGCCGCGAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGACCGCGTGCTCGTGTGCGGCGTCTGCGCCTCGCTGGGTTCGCACCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCCATGCGCGCCTTAAGACGCAGCTCCCGCAGCAGAAGCTGCAGCTG
 CAGGAGGCGTGTATGCGGAAGGAGAAGAGCGTGGGTGTGCTGGAGCAACA ACTGGTGGAAGTGGAGGAGA
 CGGTGCGTCAGTTCCGGGGGGCAGTGGGGGAGCAGCTGGGCAAGATGCGGTTGTTCTGCTGCACTGGA
 GGGCTCCTTGGACCGAGAAGCAGAGCGTGTGCGGGGTGAGGCGGGGTCGCCTTGCAGGAGGAGCTGGGG
 AGCCTGAAGTCTTACTTGGAGCAGCTGCGGCAGATGGAGAAGGTGCTGGAGGAGGTGGCAGACAAGCCCC
 AGACCGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGGCGCCCCC
 ACCTGCCCCGCTGGACATTCAGCTGCCTGTCATCTCAGACGACTTCAAATTCCAGGTGTGGAGAAAGATG
 TTCCGGGCCCTGATGCCAGCGATGCAGGAGCTGACCTTTGACCCAGCACGGCCACCCGAGCCTGGTGC
 TGTCGGCCTCGGGCCGCGCGTGAGTGCTCGGAGCAGAAGGCGCCGCGGCCGAGAGGACCCGCGCCA
 GTTCGACAAGGCGGTGGCGGTGGTGACGCACCAGCTGCTGTGCGAAGGCGAGCACTACTGGGAGGTGGAG
 GTGGGCGACAAGCCACGCTGGGCGCTGGGCGTGATCGGGGCCAGGCCGGTCGCCGCGGCCGGCTGCACG
 CCGTGCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGCGAGGGCAAGATCCTGGAGGCTCACGTCGAGGC
 CAAGGAGCCGCGCGCCCTGCGCACCCCGGAGAGGCGGCCGTCGCGCATCGGGATCTACCTGAGCTTCGCG
 GATGGCGTCTCTCGTTCTACGACGCCAGCGACGCCGACGCGCTGGAGCTGCTCTTCGCCTTCACGAAC
 GCCTGCCGGGGCCCCGTGTACCCCTTCTTCGACGTGTGCTGGCACGACAAGGGCAAGAAGCTCAGCCGCT
 CCTGCTGGTGGGGCCGACAGCGCGGGGAGGCCTGA (SEQ ID NO: 17)

Fig. 12

MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLSRVAGE
 PAADGTVPCPCQALTRPQALSTNQQLARLVEGLAQVPQGHCEEHLDPPLSIYCEQDRA
 LVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVALLEHQLME
 VEEMVRQFRGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQ
 LRQMEKVL EEVADKPQTEFLMKYCLVTSRLQKILAEAPPPARLDIQLPVISDDFKFQV
 WRKMFALMPVTKELTFDPSSAHPSLVLSPSGRRVECDQKAPPAGEDPCQFDKAVAV
 VAQQVLS DGEHYWEVQVGEKPRWALGVIAAQASRRGRLHAVPSQGLWLLGLRDGKILE
 AHVEAKEPRALRTPERRPTRIGIYLSFGDGVLSFYDASDPDALELLFAFHERLPGPVY
 PFFDVCWHDKGKNAQPLLLVGPDGEEA (SEQ ID NO: 12)

ATGTCGGCCGCGCCGGGCTCCTGCACCAGGAGCTGTCCTGCCCGCTCTGCCTGCAGCTGTTTGACGCGC
 CGGTGACCGCCGAGTGCGGCCACAGTTTCTGCCGCGCCTGCCTGAGCCGCGTGGCTGGGGAGCCGGCGGC
 GGACGGCACCGTGCCCTGCCCGTGCTGCCAGGCACTCACGCGGCCACAGGCGCTCAGCACCAACCAGCAG
 CTGGCGCGCCTGGTGGAGGGGCTGGCGCAGGTGCCGAGGGCCACTGCGAGGAGCACCTAGACCCGCTCA
 GCATCTACTGCGAGCAGGATCGAGCGCTCGTGTGCGGCGTGTGCGCCTCGCTCGGCTCGCACCGCGGCCA
 CCGCCTGCTGCCCGCCGCCGAAGCCACGCGCGCCTCAAGACACAGCTGCCACAGCAGAACTGCAGCTG
 CAGGAGGCATGTATGCGCAAGGAGAAGAGTGTGGCTCTGCTGGAGCATCAGCTCATGGAAGTGGAGGAGA
 TGGTGCGTCAGTTCCGGGGGGCTGTAGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGA
 GGGCTCCTTGGACCGTGAGGCAGAGCGCTGCGGGGAGAGGCAGGGGTGTCCTGCGGCGGGAGCTGGGG
 AGCCTGAACTCTTACCTGGAGCAGTTGCGTCAGATGGAGAAGGTGCTGGAGGAGGTGGCCGACAAGCCAC
 AGACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTACAGAAGATCCTGGCAGAAGCACCACC
 GCCTGCCCCTTTGGACATCCAGCTGCCTGTCATCTCAGATGACTTCAAATTCAGGTGTGGAGGAAGATG
 TTCCGGGCTCTGATGCCAGTTACAAAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGC
 TGTCTCCCTCCGGTCGCCGCGTGAGTGCTCGGACCAGAAGGCGCCGCCGGCCGGGGAGGATCCGTGCCA
 GTTCGACAAGGCCGTGGCGGTGGTGGCGCAGCAGGTGCTGTCCGACGGCGAGCACTACTGGGAGGTGCAG
 GTGGGCGAGAAGCCGCGCTGGGCCCTCGGCGTGATCGCGGCCAGGCCAGCCGCCGCGGCCGGCTGCACG
 CCGTCCCCCTCGCAGGGCCTCTGGCTGCTCGGGCTGCGGGACGGCAAGATCCTGGAGGCGCACGTGGAAGC
 CAAGGAGCCGCGCGCTGCGCACCCCGGAGAGGCGGCCACGCGCATCGGGATCTACCTAAGCTTCGGC
 GACGGAGTCCTCTCTTTTATGATGCCAGTGACCCGACGCCCTCGAGCTGCTCTTTGCCTTCACGAGC
 GCCTGCCC GGCCCGTGTACCCCTTCTTCGACGTATGCTGGCACGACAAGGGCAAAAATGCTCAGCCGCT
 GCTGCTGGTGGGGCCTGATGGCGAGGAGGCCTGA (SEQ ID NO: 18)

Fig. 13

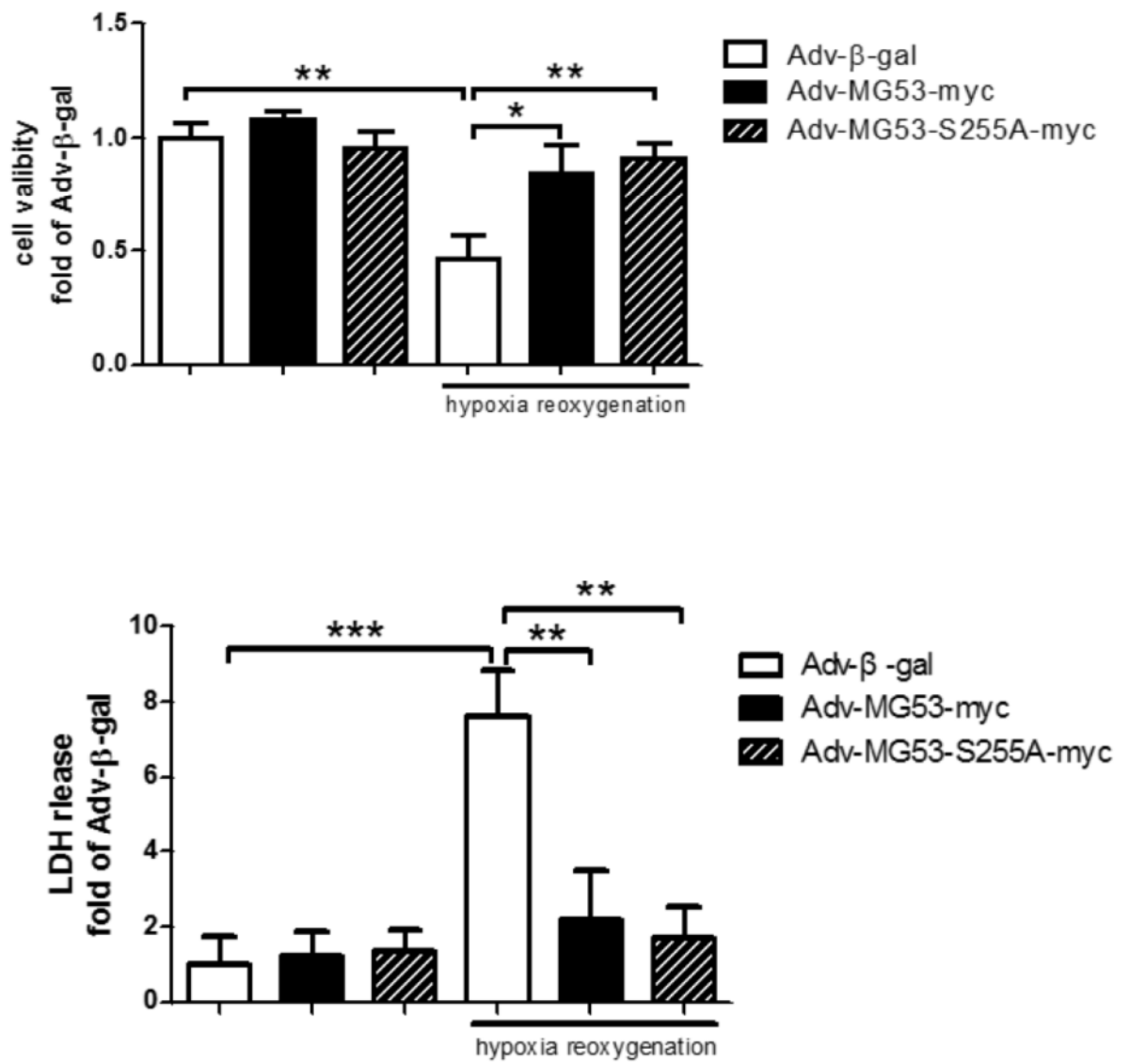


Fig. 14

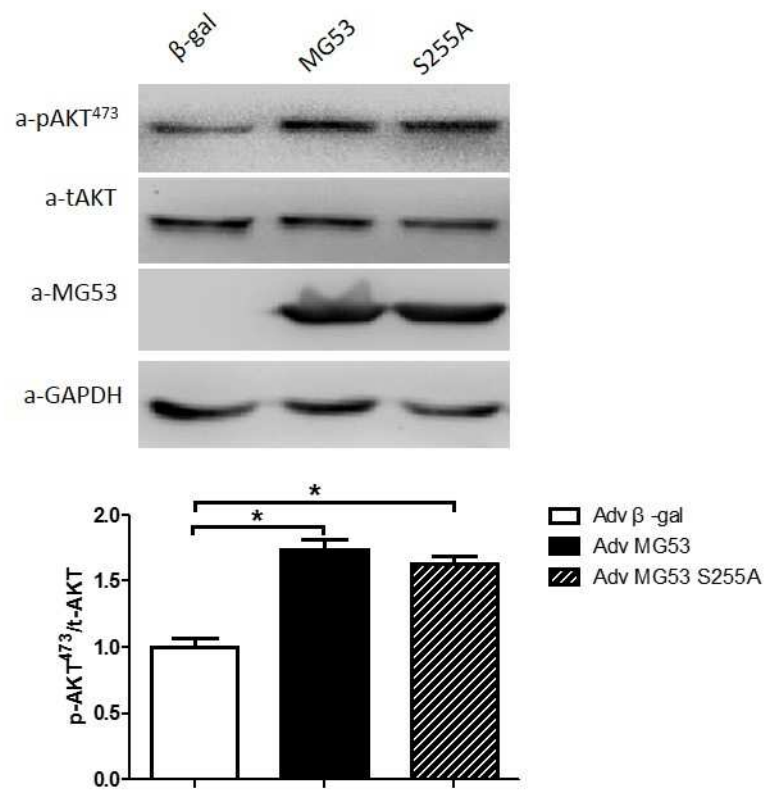
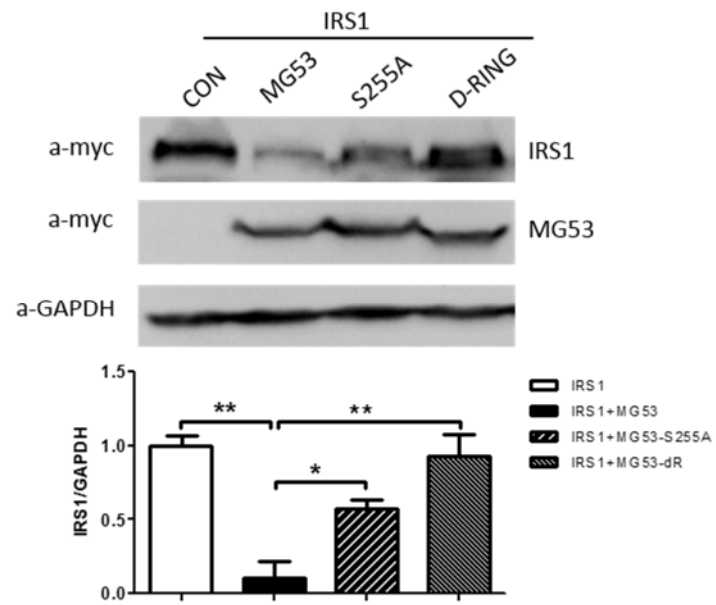
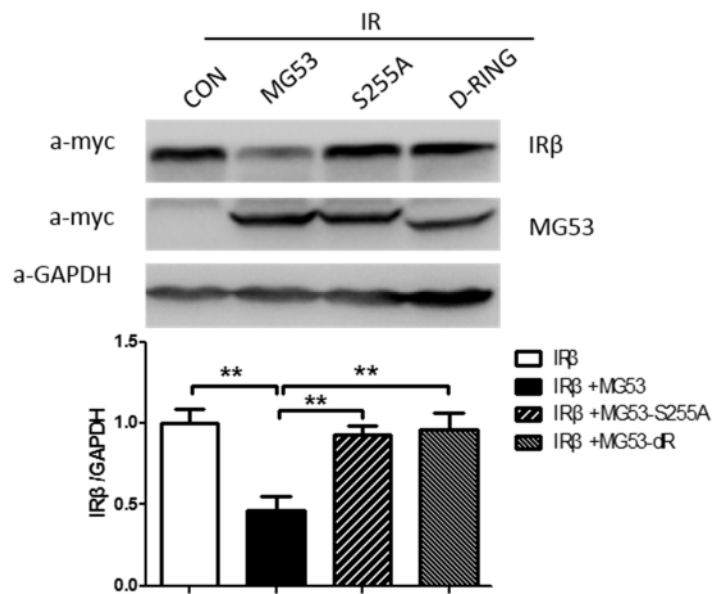


Fig. 15

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

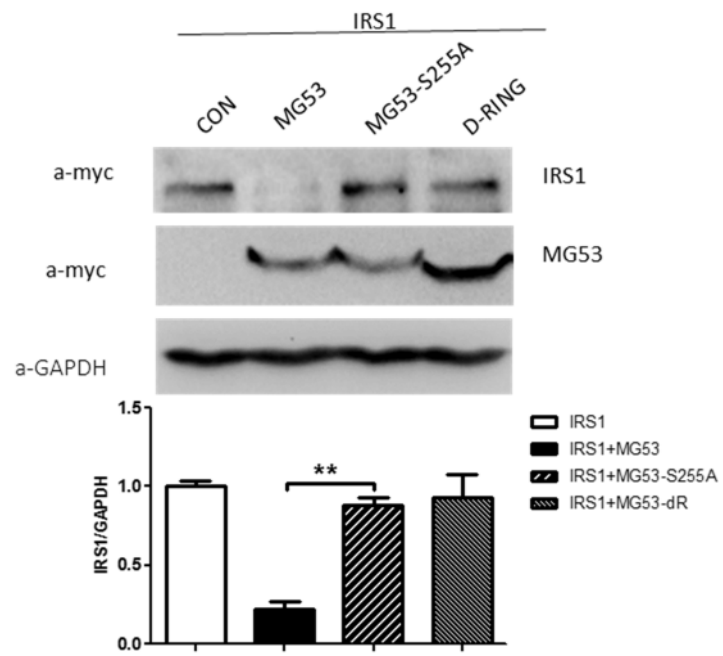


Fig. 17

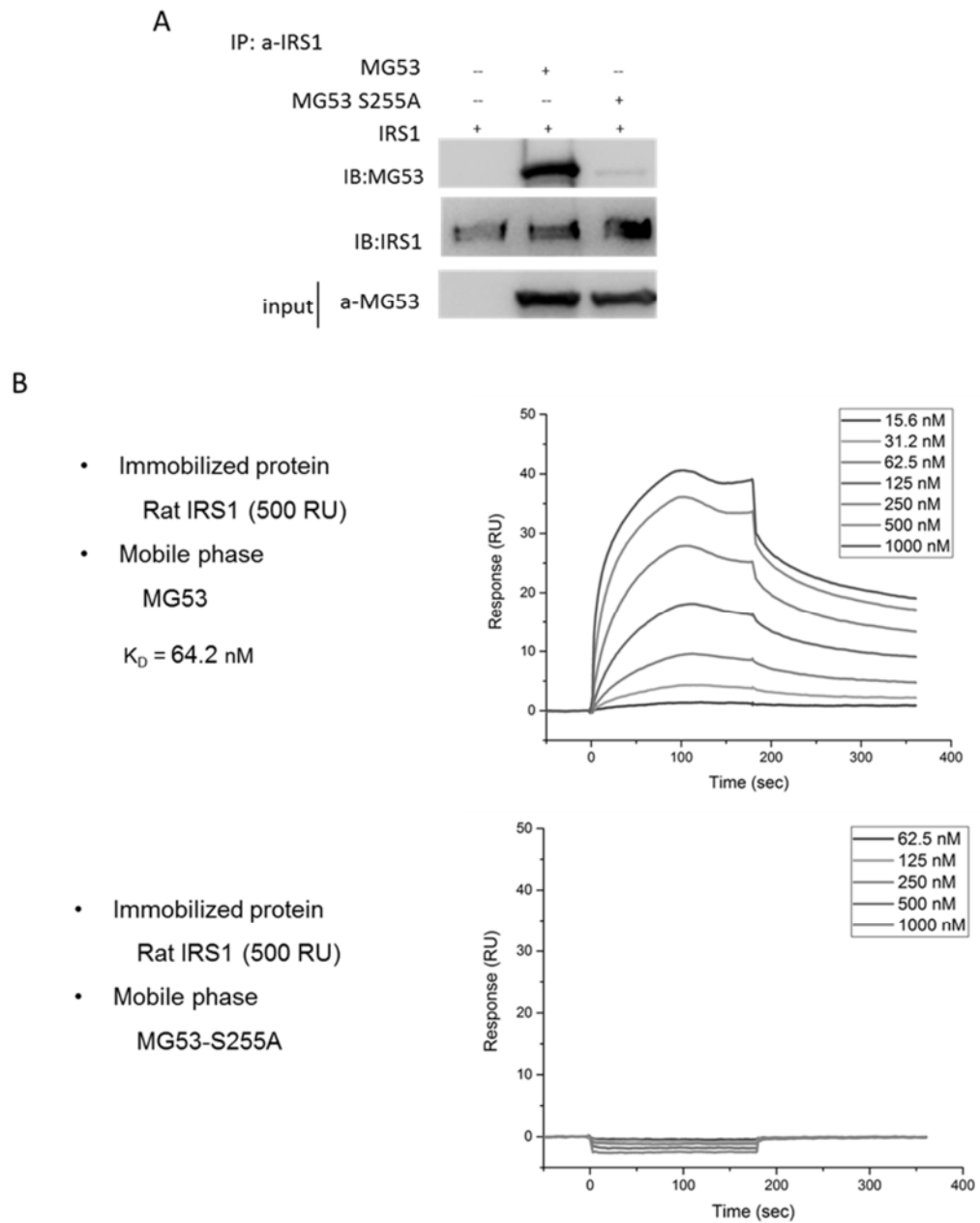


Fig. 18

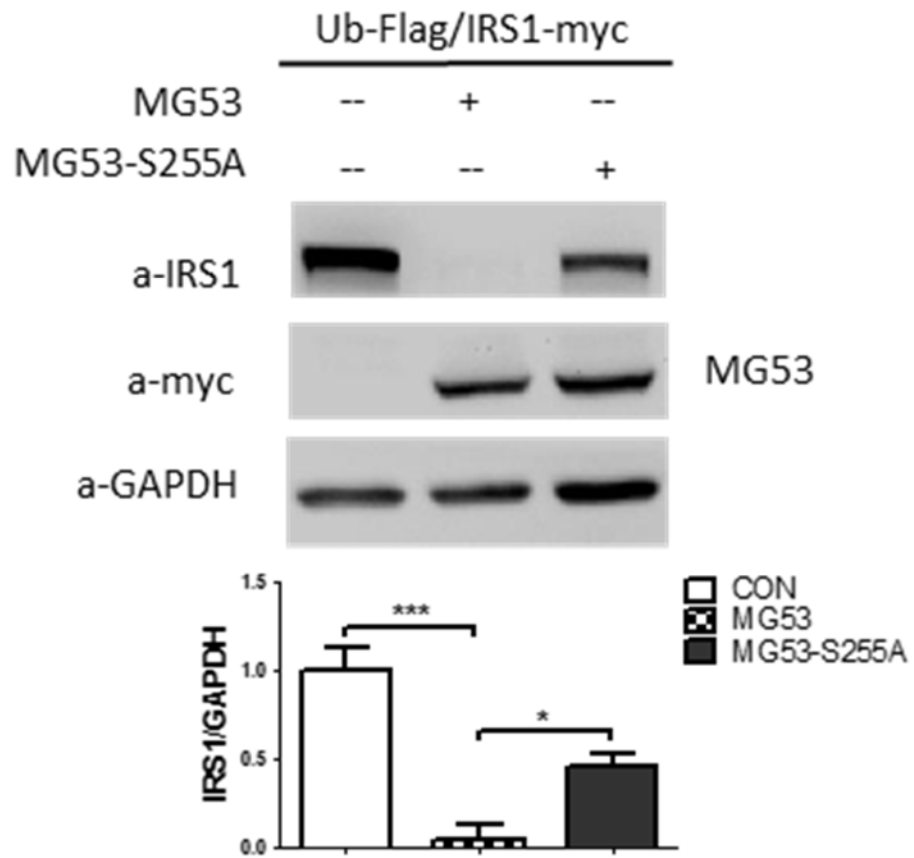


Fig. 19

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQCAPT
 RPQALSTNLQ LARLVEGLAQ VPQGHCEEHL DPLSIYCEQD RALVCGVCAS LGSHRGHRLI
 PAAEAHARLK TQLPQQKLQL QEACMRKEKS VAVLEHQLVE VEETVRQFRG AVGEQLGKMR
 VFLAALEGS L DCEAERVGRG AGVALRRELG SLNSYLEQLR QMEKVL EEVA DKPQTEFLMK
 YCLVTSRLQK ILAESPPPAR LDIQLPIISD DFKFQVWRKM FRALMPALEE LTFDPSSAHP
 SLVVSSSGRR VECSEKQAPP 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 agccggcgcc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tgggtggagg gctggcccag
 gtgccgcagg gccactgcga ggagcacctg gacccgctga gcatctactg cgagcaggac
 cgcgcgctgg tgtgcggagt gtgcgcctca ctgcggctgc 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
 tactgcctgg tgaccagcag gctgcagaag atcctggcag agtctcccc acccgcccgt
 ctggacatcc agctgccaat tatctcagat gacttcaa at tccagggtgtg gaggaagatg
 ttccgggctc tgatgccagc gctggaggag ctgacctttg acccgagctc tgcgcacccg
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 gccggggagg acccgcgcca gttcgacaag gcggtggcgg tgggtggcgca ccagcagctc
 tccgagggcg agcactactg ggaggtggat gttggcgaca agccgcgctg ggcgctgggc
 gtgatcgcgg ccgaggcccc ccgcccgggg cgctgcacg cgggtgccctc 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 VLEEVADKPQ TEFLMKYCLV TSRLQKILAE SPPPARLDIQ
 LPIISDDFKF QVWRKMFRL MPAL EELTFD 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 gctccttga 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 cctggtggtg
 tcttcctctg gccgccgct ggagtgtctg gagcagaagg cgccgccggc cggggaggac
 ccgcgccagt tcgacaaggc ggtggcggtg gtggcgacc agcagctctc cgagggcgag
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 gaggcccccc gccgcgggcg cctgcacgcg gtgccctcgc agggcctgtg gctgctgggg
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 agccccgaga ggcgggccac gcgcattggc ctttacctga gcttcggcga cggcgtcctc
 tccttctacg atgccagcga cgccgacgcg ctctgtccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtaccc 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 QVWRKMFRA LMPALEELTFD PSSAHPSLVV SSSGRRVECS GQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGVL SFYDASDADA LVPLFAFHER
 LPRPVYPFFD VCWHDKGKNA QPLLLVGPEG AEA (SEQ ID NO: 141)

atgcgtaagg agaagagtgt ggctgtgctg gagcatcagc tgggtggaggt ggaggagaca
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 ctgccaaatta tctcagatga cttcaaattc cagggtgtgga ggaagatgtt ccgggctctg
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 ccgcgccagt tcgacaaggc ggtggcggtg gtggcgcacc agcagctctc cgagggcgag
 cactactggg aggtggatgt tggcgacaag ccgcgctggg cgctgggcgt gatcgcggcc
 gagggcccc gccgcgggcg cctgcacgcg gtgccctcgc agggcctgtg gctgctgggg
 ctgcgcgagg gcaagatcct ggaggcacac gtggaggcca aggagccgcg cgctctgcgc
 agccccgaga ggcggccac gcgcattggc ctttacctga gcttcggcga cggcgtcctc
 tccttctacg atgccagcga cgccgacgcg ctcgtgccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtaccc cttcttcgac gtgtgctggc acgacaaggg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaaggc gccgaggcct ga (SEQ ID NO: 145)

Fig. 22

MSAAPGLLHQ ELSCPLCLQL FDAPVTAECG HSFCRACLGR VAGEPAADGT VLCPCQCAPT
 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)

atgtcggctg cgcccgccct cctgcaccag gagctgtcct gcccgctgtg cctgcagctg
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 gtggccgggg agccggcggc ggatggcacc gttctctgcc cctgctgcca ggccccacg
 cggccgcagg cactcagcac caacctgcag ctggcgcgcc tgggtggaggg gctggcccag
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 cgcgcgctgg tgtgcggagt gtgcgcctca ctcggtcgc accgcggtca tcgcctcctg
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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
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 cgcgcgctgg tgtgcggagt gtgcgcctca ctgcggctgc accgcggtca tcgcctcctg
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 caggaggcat gcatgcgtaa ggagaagagt gtggctgtgc tggagcatca gctggtggag
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 gtgttcctgg ctgcaactgga gggctccttg gactgcgagg cagagcgtgt acggggtgag
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 ttccgggctc tgatgccagc gctggaggag ctgacctttg acccgagctc tgcgcacccg
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 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 QVWRKMFRAI MPAL EELTFD PSSAHPSLVV SSSGRRVECS EQKAPPAGED
 PRQFDKAVAV VAHQQLSEGE HYWEVDVGDK PRWALGVIAA EAPRRGRLHA VPSQGLWLLG
 LREGKILEAH VEAKEPRALR SPERRPTRIG LYLSFGDGVL 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 ctgcctgggt
 accagcaggc tgcagaagat cctggcagag gctccccac ccgcccgtct ggacatccag
 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatgtt ccgggctctg
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 tcttcctctg gccgccgct ggagtgtctg gagcagaagg cgccgccggc cggggaggac
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 ctgcgcgagg gcaagatcct ggaggcacac gtggaggcca aggagccgc cgctctgcgc
 agccccgaga ggcgggccac gcgcattggc ctttacctga gcttcggcga cggcgctctc
 tccttctacg atgccagcga cgccgacgc ctcgtgccgc tttttgcctt ccacgagcgc
 ctgcccaggc ccgtgtaccc cttcttcgac gtgtgctggc acgacaaggg caagaatgcc
 cagccgctgc tgctcgtggg tcccgaaggc 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
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 gtcctggagg aggtggcgga caagccgcag actgagttcc tcatgaaata ctgcctggtg
 accagcaggc tgcagaagat cctggcagag gctccccac ccgcccgtct ggacatccag
 ctgccaatta tctcagatga cttcaaattc caggtgtgga ggaagatggt ccgggctctg
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 tcttcctctg gccgccgcgt ggagtgtctg gggcagaagg cgccgccggc cggggaggac
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 gaggcccccc gccgcgggag 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: 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 tgggtggaggg gctggcccag
 gtgccgcagg gccactgcga ggagcacctg gacccgctga gcatctactg cgagcaggac
 cgcgcgctgg tgtgcgaggt gtgcgcctca ctcggtcgc accgcggtca tcgcctcctg
 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

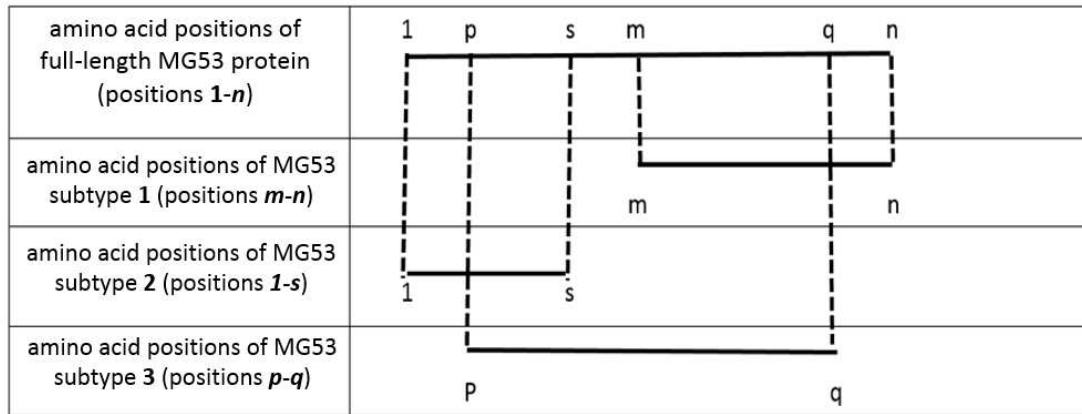


Fig. 28