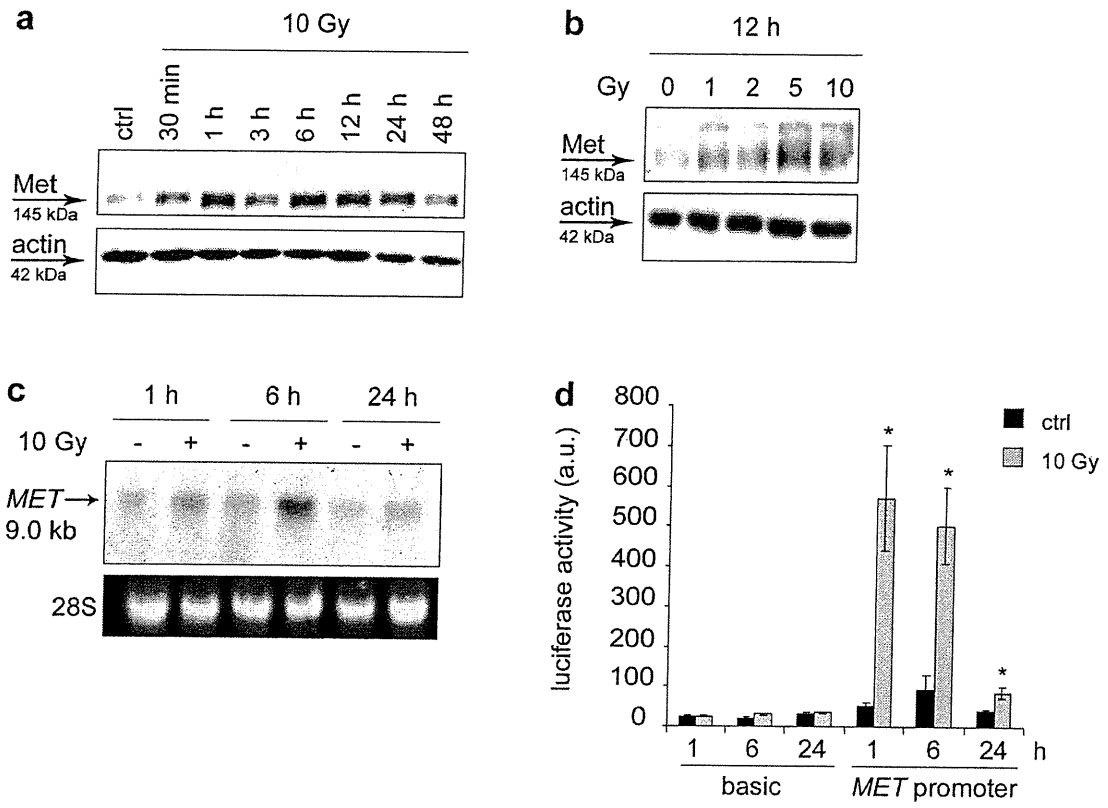

a
10 Gy
ctrl
30 min
1 h
3 h
6 h
12 h
24 h
48 h
Met
145 kDa
actin
42 kDa
b
12 h
Gy 0 1 2 5 10
Met
145 kDa
actin
42 kDa
c
1 h
6 h
24 h
10 Gy - + - + - +
MET
9.0 kb
28S
d
luciferase activity (a.u.)
800
700
600
500
400
300
200
100
0
ctrl
10 Gy
1 6 24 1 6 24 h
basic
MET promoter

**Figure 1**

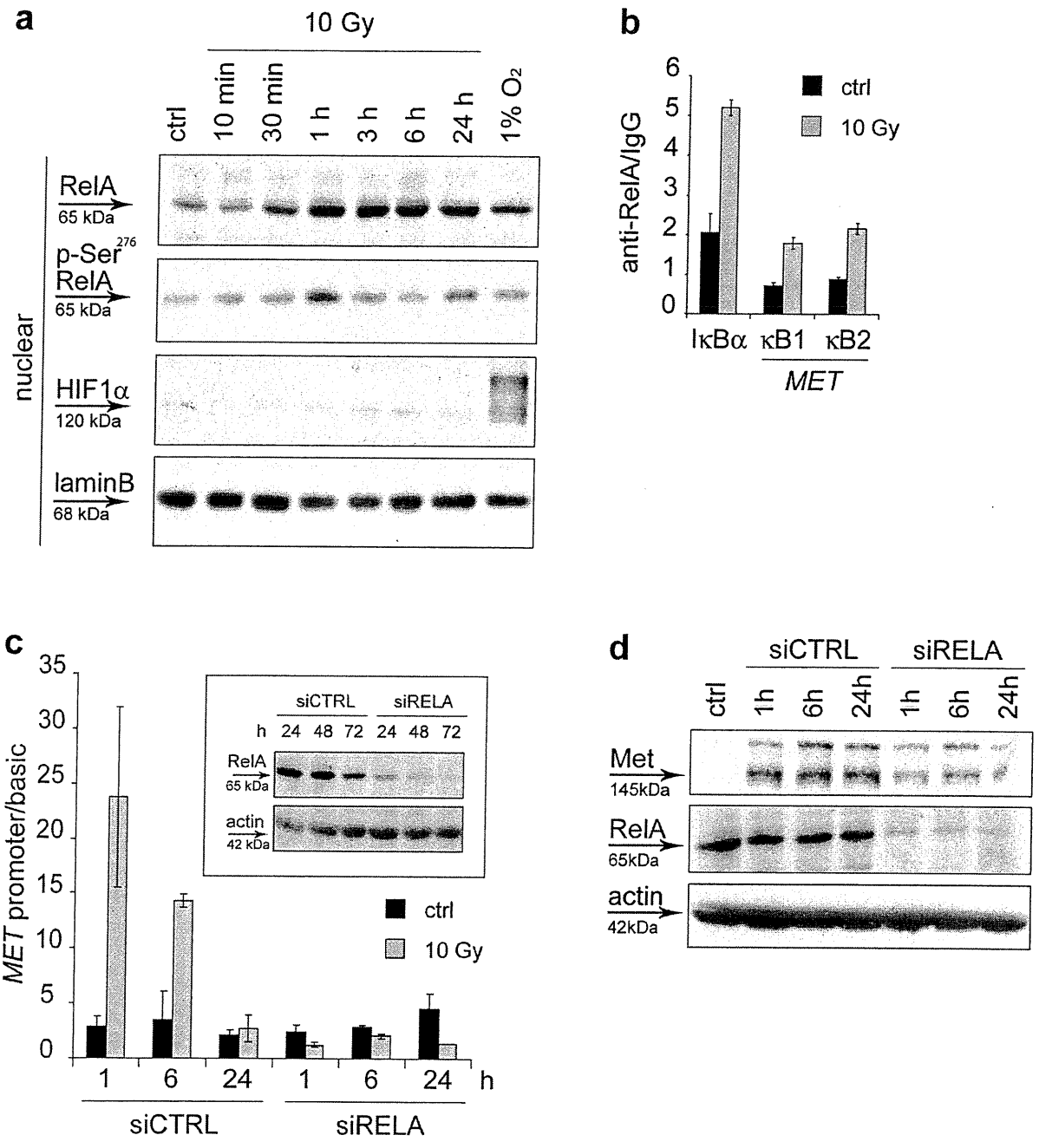

a
10 Gy
ctrl
10 min
30 min
1 h
3 h
6 h
24 h
1% O2
nuclear
RelA
65 kDa
p-Ser276
RelA
65 kDa
HIF1α
120 kDa
laminB
68 kDa
b
anti-RelA/IgG
ctrl
10 Gy
IκBα
κB1
κB2
MET
c
MET promoter/basic
siCTRL
siRELA
h 24 48 72 24 48 72
RelA
65 kDa
actin
42 kDa
ctrl
10 Gy
1 6 24 1 6 24 h
siCTRL
siRELA
d
siCTRL
siRELA
ctrl
1h
6h
24h
1h
6h
24h
Met
145kDa
RelA
65kDa
actin
42kDa

**Figure 2**

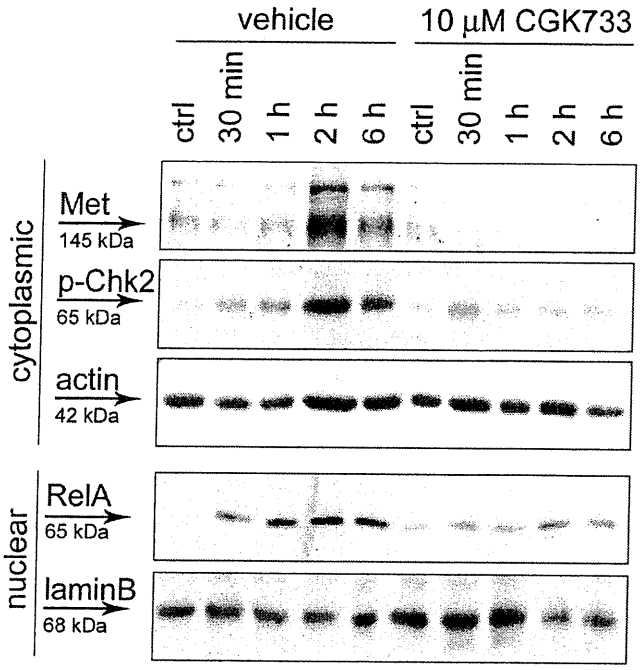
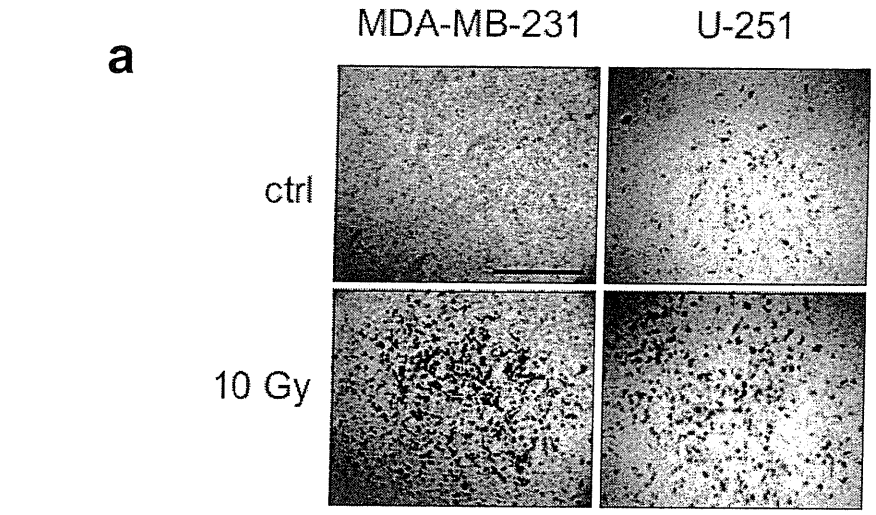

vehicle
10 μM CGK733
ctrl
30 min
1 h
2 h
6 h
ctrl
30 min
1 h
2 h
6 h
cytoplasmic
Met
145 kDa
p-Chk2
65 kDa
actin
42 kDa
nuclear
RelA
65 kDa
laminB
68 kDa

**Figure 3**



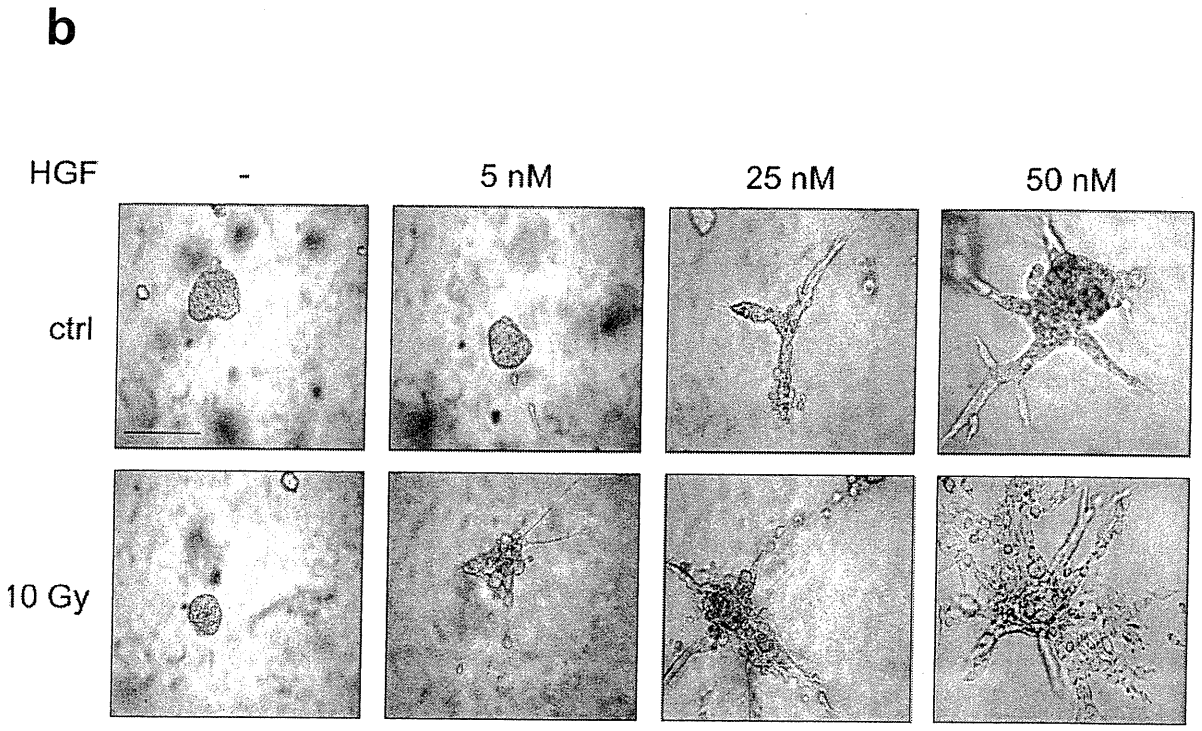




Figure 4

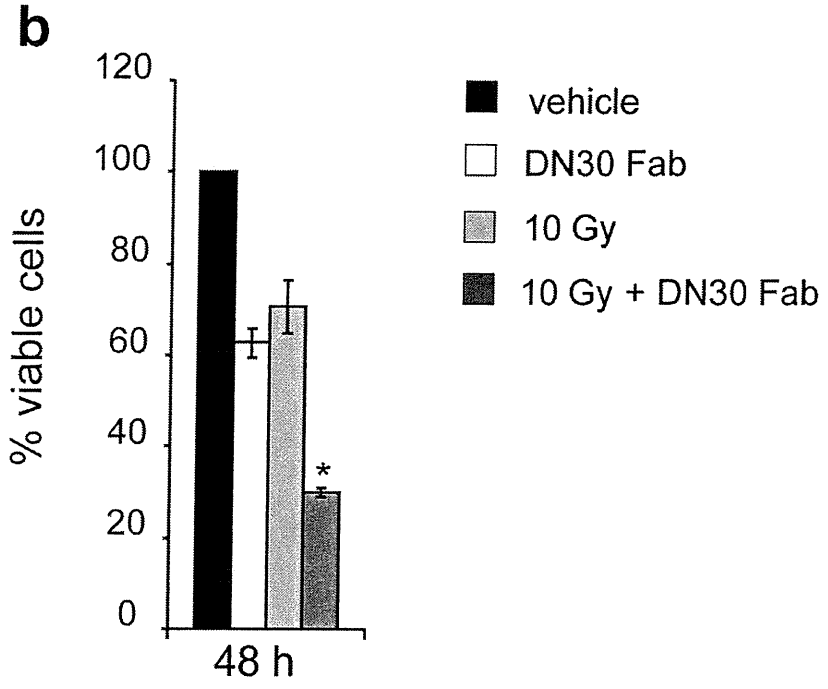



Figure 5

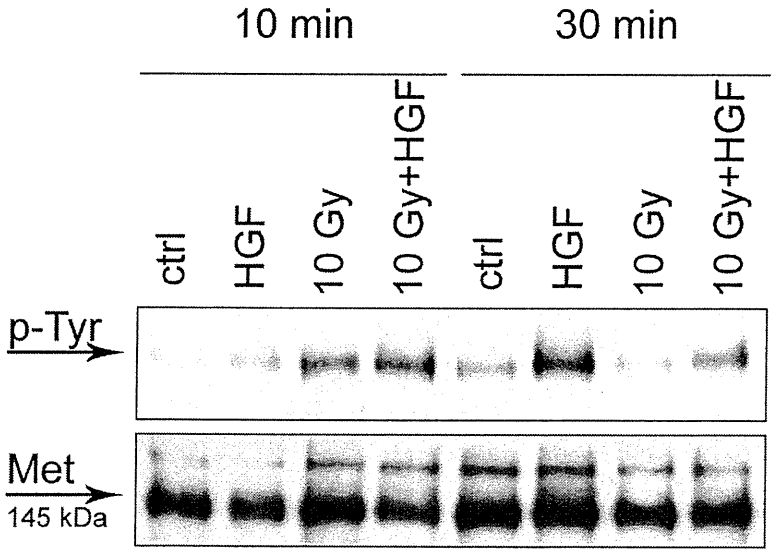



Figure 6

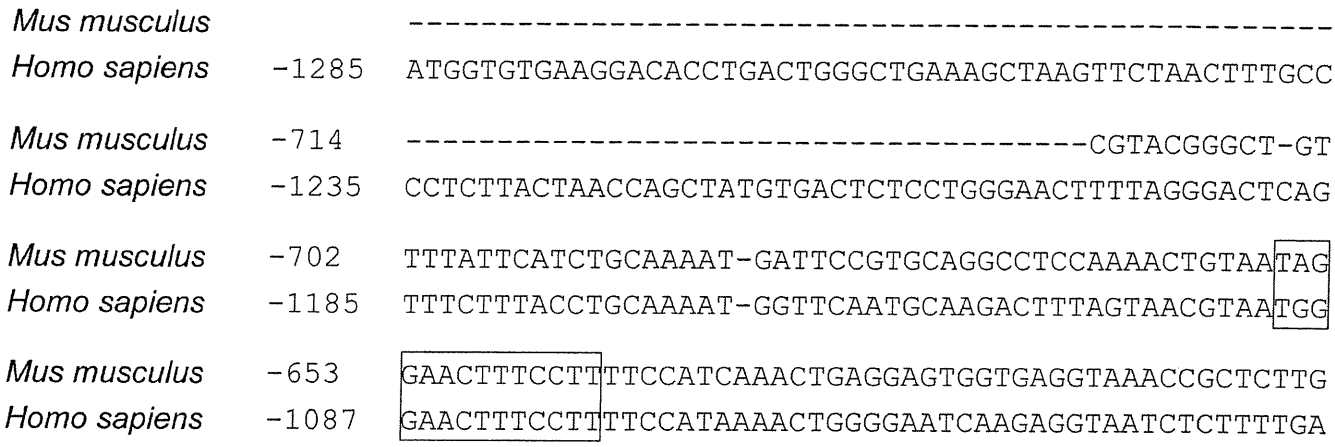

Mus musculus
Homo sapiens -1285 ATGGTGTGAAGGACACCTGACTGGGCTGAAAGCTAAGTTCTAACTTTGCC
Mus musculus -714 -----------CGTACGGGCT-GT
Homo sapiens -1235 CCTCTTACTAACCAGCTATGTGACTCTCCTGGGAACTTTTAGGGACTCAG
Mus musculus -702 TTTATTCATCTGCAAAAT-GATTCCGTGCAGGCCTCCAAAACTGTAATAG
Homo sapiens -1185 TTTCTTTACCTGCAAAAT-GGTTCAATGCAAGACTTTAGTAACGTAATGG
Mus musculus -653 GAACTTTCCTTTTCCATCAAACTGAGGAGTGGTGAGGTAAACCGCTCTTG
Homo sapiens -1087 GAACTTTCCTTTTCCATAAAACTGGGGAATCAAGAGGTAATCTCTTTTGA

**Figure 7**

## a)- SEQ ID No.:11

```
atgggatgga gctatatcat cctctttttg gtagcaacag ctacagatgg ccactcccag      60
gtccaactgc agcagcctgg gactgaactg gtgaagcctg gggcttcagt gaagctgtcc     120
tgcaaggctt ctggctacac cttcaccagt tactggatac actgggtgaa gcagaggcct     180
ggacaaggcc ttgagtggat tggagagatt aatcctagca gcggtcgtac taactacaac     240
gagaaattca agaacaaggt cacagtgact gtagacaaat cttccaccac agcctacatg     300
caactcagca acctgacatc tgaggactct gcggtctatt actgtgcaag taggggctac     360
tggggccaag gcaccactct cacagtctcc tcagccaaaa caacagcccc atcggtctat     420
ccactggccc ctgtgtgtgg aaatacaact ggctcctcgg tgactctagg atgcctggtc     480
aagggttatt tccctgagcc agtgaccttg acctggaact ctggatccct gtccagtggt     540
gtgcacacct tcccagctgt cctgcagtct gacctctaca ccctcagcag ctcagtgact     600
gtaacctcga gcacctggcc cagccagtcc atcacctgca atgtggccca cccggcaagc     660
agcaccaagg tggacaagaa aattgagccc agagggccca caatcaagcc ctgtcctcca     720
tgcaaatgcc cagcacctaa cctcttgggt ggaccatccg tcttcatctt ccctccaaag     780
atcaaggatg tactcatgat ctccctgagc cccatagtca catgtgtggt ggtggatgtg     840
agcgaggatg acccagatgt ccagatcagc tggtttgtga acaacgtgga agtacacaca     900
gctcagacac aaacccatag agaggattac aacagtactc tccgggtggt cagtgccctc     960
cccatccagc accaggactg gatgagtggc aaggagttca aatgcaaggt caacaacaaa    1020
gacctcccag cgcccatcga gagaaccatc tcaaaaccca aagggtcagt aagagctcca    1080
caggtatatg tcttgcctcc accagaagaa gagatgacta agaaacaggt cactctgacc    1140
tgcatggtca cagacttcat gcctgaagac atttacgtgg agtggaccaa caacgggaaa    1200
acagagctaa actacaagaa cactgaacca gtcctggact ctgatggttc ttacttcatg    1260
tacagcaagc tgagagtgga aaagaagaac tgggtggaaa gaaatagcta ctcctgttca    1320
gtggtccacg agggtctgca caatcaccac acgactaaga gcttctcccg gactccgggt    1380
aaatga                                                              1386
```

## b) - SEQ ID No.:10

MGWSYIILFLVATATDGHSQVQLQQPGTELVKPGASVKLSCKAS**GYTFTSYW**IHWVKQRPGQGLEWIGE**INPSSGRT**N
YNEKFKNKVTVTVDKSSTTAYMQLSNLTSEDSAVYYC**ASRGY**WGQGTTLTVSSAKTTAPSVYPLAPVCGNTTGSSVTL
GCLVKGYFPEPVTLTWNSGSLSSGVHTFPAVLQSDLYTLSSSVTVTSSTWPSQSITCNVAHPASSTKVDKKIEPRGPT
IKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMISLSPIVTCVVVDVSEDDPDVQISWFVNNVEVHTAQTQTHREDYNS
TLRVVSALPIQHQDWMSGKEFKCKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPPEEEMTKKQVTLTCMVTDFMPED
IYVEWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHEGLHNHHTTKSFSRTPGK

**Figure 8**

## a) - SEQ ID No.:19

atggagacag acacaatcct gctatgggtg ctgctgctct gggttccagg ctccactggt 60

gacattgtgc tgacccaatc tccagcttct ttggctgtgt ctctagggca gagggccacc 120

atctcctgca aggccagcca aagtgttgat tatgatggtg gtagttatat gagttggttc 180

caacagagac caggacagcc acccaaactc ctcatctctg ctgcatccaa tctagaatct 240

gggatcccag ccaggtttag tggcagtggc tctgggacag acttcaccct caatatccat 300

cctgtggagg aggaggatgt tgcaacctat tactgtcagc aaagttatga ggatccgctc 360

acgttcggtg ctgggaccaa gctggagctg aaacgggctg atgctgcacc aactgtatcc 420

atcttcccac catccagtga gcagttaaca tctggaggtg cctcagtcgt gtgcttcttg 480

aacaacttct accccaaaga catcaatgtc aagtggaaga ttgatggcag tgaacgacaa 540

aatggcgtcc tgaacagttg gactgatcag gacagcaaag acagcaccta cagcatgagc 600

agcaccctca cgttgaccaa ggacgagtat gaacgacata acagctatac ctgtgaggcc 660

actcacaaga catctacttc acccattgtc aagagcttca acaggaatga gtgttag 717

## b) - SEQ ID No.:18

METDTILLWVLLLWVPGSTGDIVLTQSPASLAVSLGQRATISCKAS**QSVDYDGGSY**MSWFQQRPGQPPKLLIS**AAS**NL
ESGIPARFSGSGSGTDFTLNIHPVEEEDVATYYC**QQSYEDPLT**FGAGTKLELKRADAAPTVSIFPPSSEQLTSGGASV
VCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLTKDEYERHNSYTCEATHKTSTSPIVKSFN
RNEC

**Figure 9**