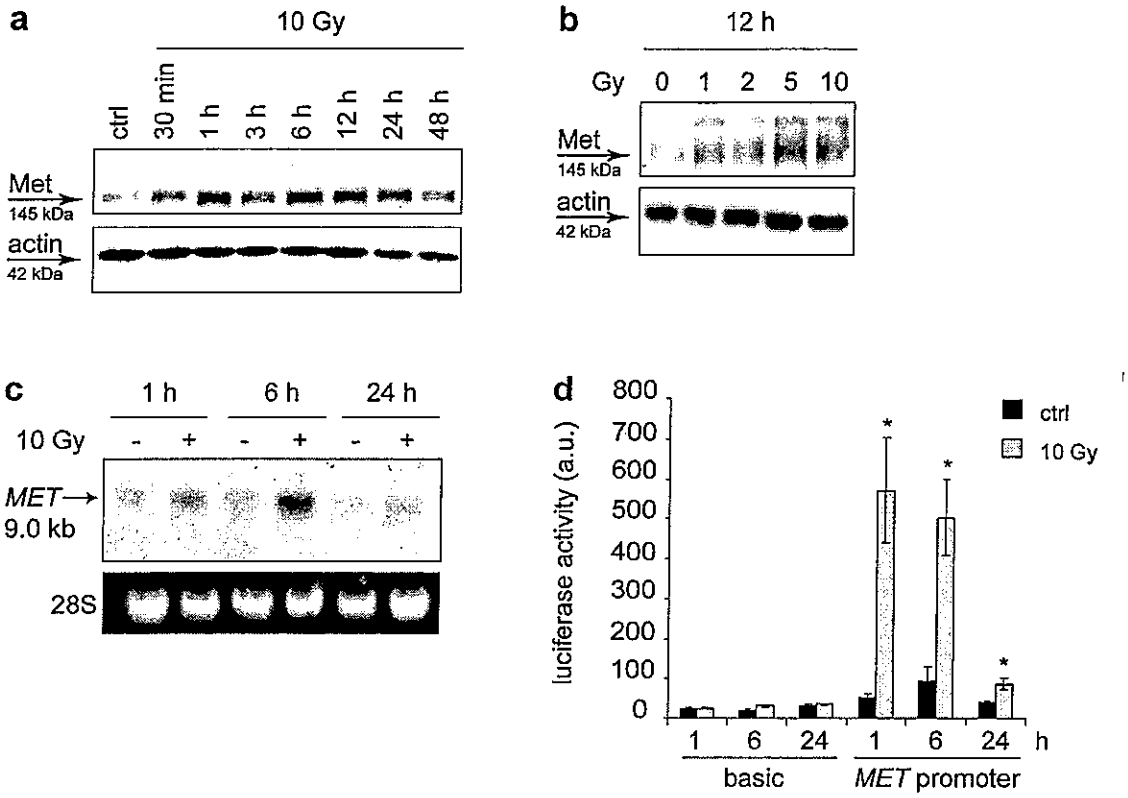

a
10 Gy
ctrl
30 min
1 h
3 h
6 h
12 h
24 h
48 h
Met
145 kDa
actin
42 kDa
b
12 h
Gy 0 1 2 5 10
Met
145 kDa
actin
42 kDa
c
1 h
6 h
24 h
10 Gy - + - + - +
MET
9.0 kb
28S
d
luciferase activity (a.u.)
800
700
600
500
400
300
200
100
0
ctrl
10 Gy
1 6 24 1 6 24 h
basic
MET promoter

**Figure 1**

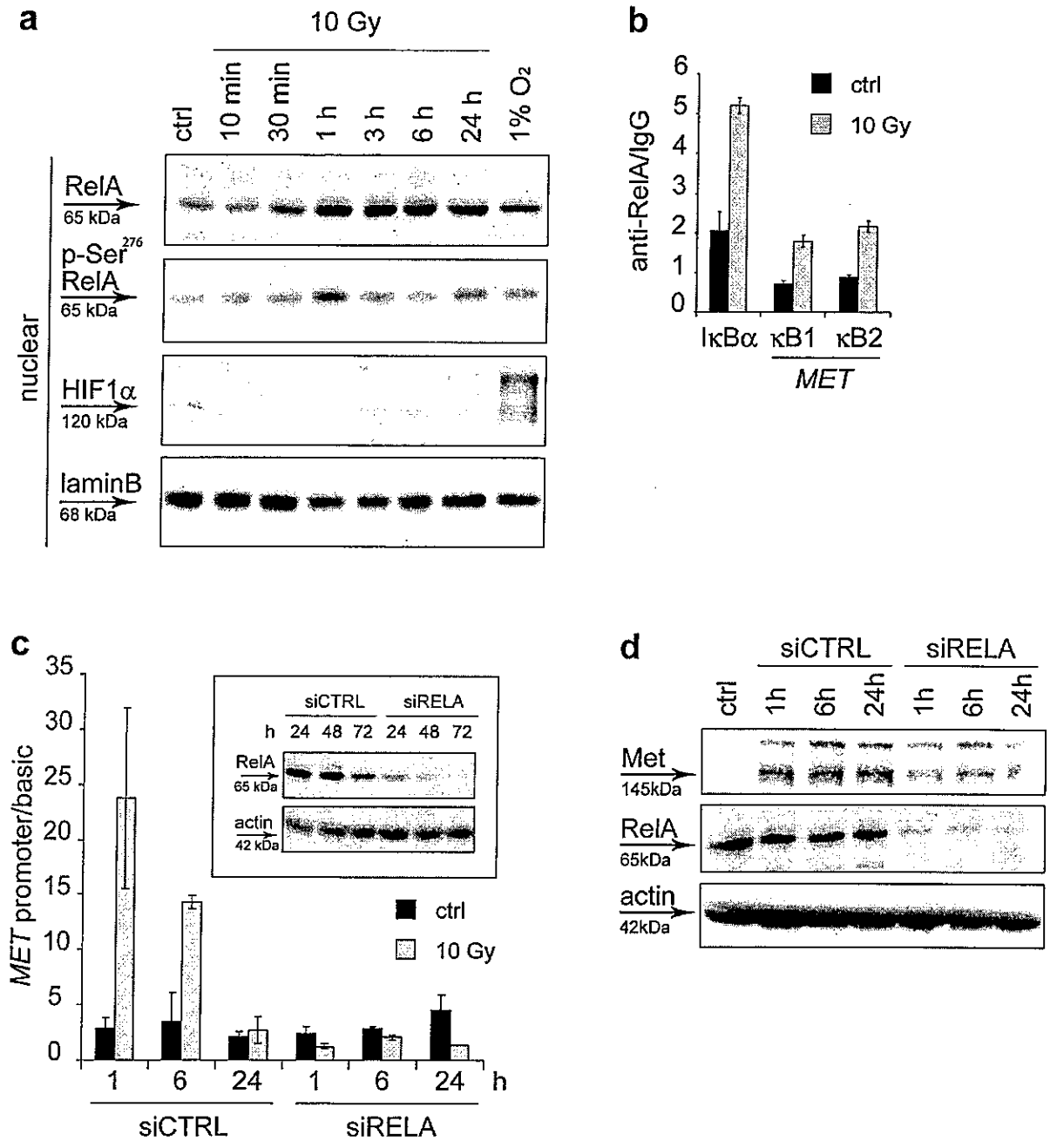

a
10 Gy
ctrl
10 min
30 min
1 h
3 h
6 h
24 h
1% O2
nuclear
RelA
65 kDa
p-Ser276
RelA
65 kDa
HIF1α
120 kDa
laminB
68 kDa
b
anti-RelA/IgG
ctrl
10 Gy
IκBα
κB1
κB2
MET
c
MET promoter/basic
siCTRL
siRELA
h 24 48 72 24 48 72
RelA
65 kDa
actin
42 kDa
ctrl
10 Gy
1 6 24 1 6 24 h
siCTRL
siRELA
d
siCTRL
siRELA
ctrl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

**Figure 2**

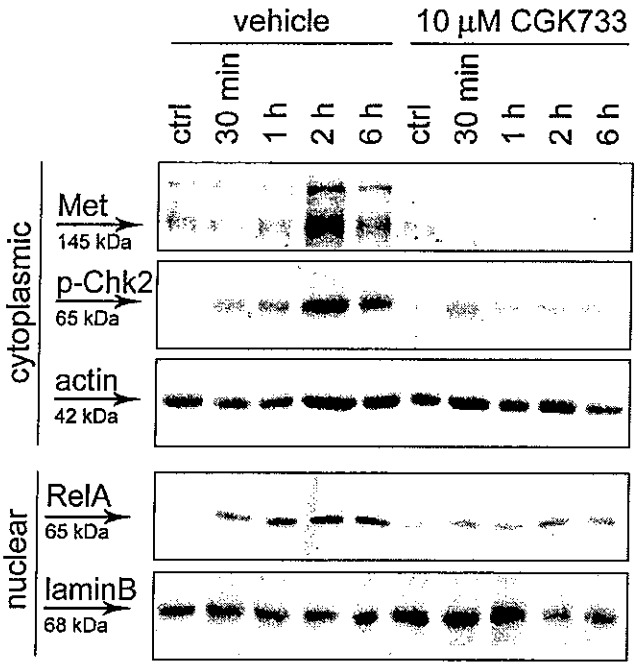
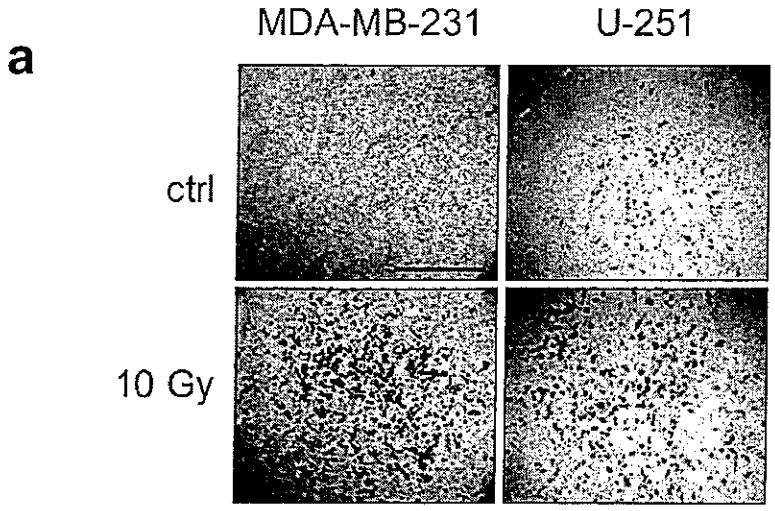

vehicle
10 μM CGK733
ctrl
30 min
1 h
2 h
6 h
ctrl
30 min
1 h
2 h
6 h
cytoplasmic
Met
145 kDa
p-Chk2
65 kDa
actin
42 kDa
nuclear
RelA
65 kDa
laminB
68 kDa

Figure 3



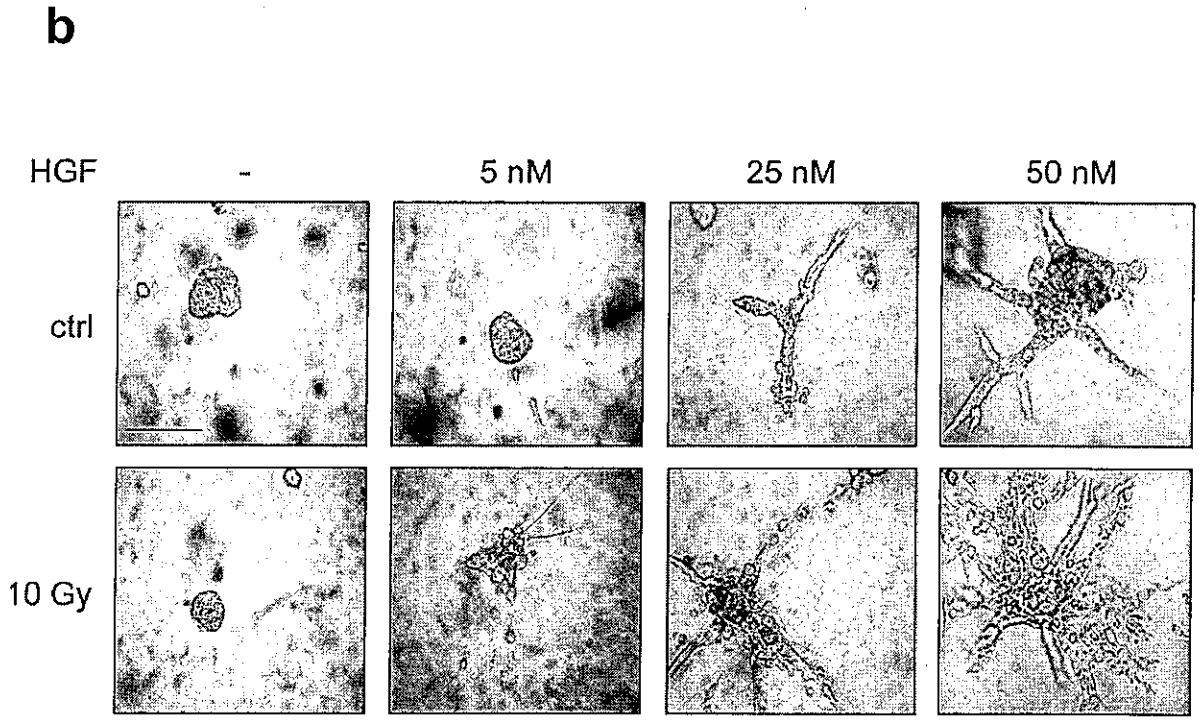




Figure 4

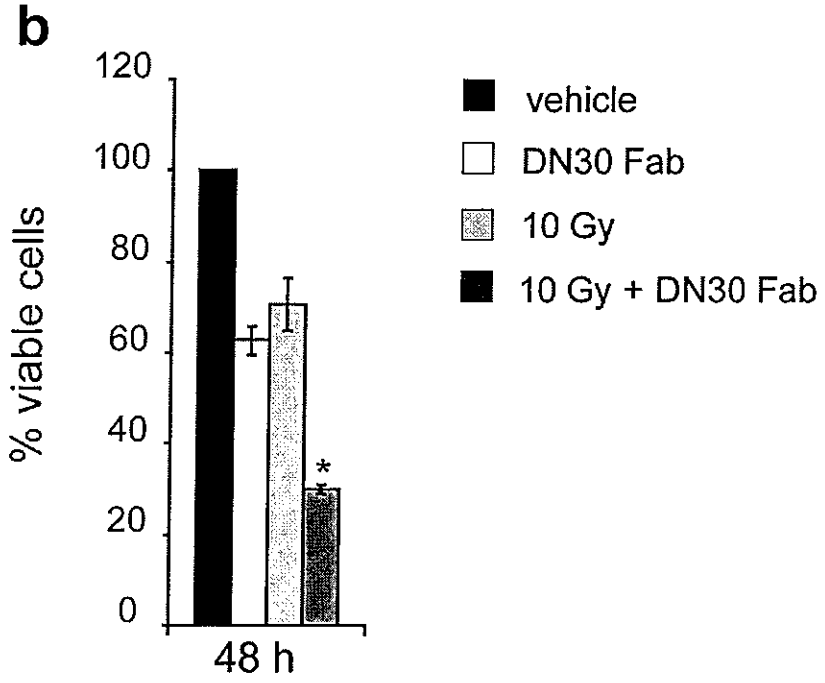



Figure 5

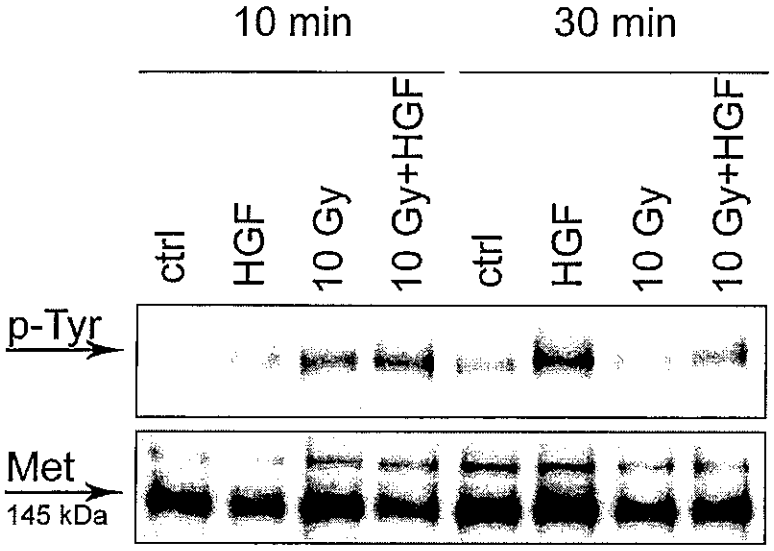



Figure 6


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

```
METDTILLWVLLLWVPGSTGDIVLTQSPASLAVSLGQRATISCKASQSVDYDGGSYMSWFQQRPGQPPKLLISAASNL
ESGIPARFSGSGSGTDFTLNIHPVEEEDVATYYCQQSYEDPLTFGAGTKLELKRADAAPTVSIFPPSSEQLTSGGASV
VCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLTKDEYERHNSYTCEATHKTSTSPIVKSFN
RNEC
```

**Figure 9**