

Sequence Range: 1 to 711

```

                >AflIII      >Asp7181
                |           |
>NheI          >PmeI      >HindIII      >KpnI
|             |           |           |
|             10         20         30         40
GCT AGC GTT TAA ACT TAA GCT TGG TAC CAC C ATG GAG CAG AAG CTG ATC
                      M   E   Q   K   L   I >
                      ____a__2XMYC TAG____a____>

                                                    >EcoRV
                                                    |
50          60          70          80          90
TCA GAG GAG GAT CTG GAG CAG AAG CTG ATC TCA GAG GAG GAT CTG GA TAT
S   E   E   D   L   E   Q   K   L   I   S   E   E   D   L>
____a__a__a__a__a__a__2XMYC TAG__a__a__a__a__a__a__>

                >NotI
                |
100          110      120          130          140
CCA GCA CAG TGG CGG CCG C ACG GAA TAT AAG CTG GTG GTG GTG GGC GCC
                      T   E   Y   K   L   V   V   V   G   A>
                      ____b__b__HUMAN H- RAS G12V____b__b____>

>G12V
|
150          160          170          180          190
GTC GGT GTG GGC AAG AGT GCG CTG ACC ATC CAG CTG ATC CAG AAC CAT
V   G   V   G   K   S   A   L   T   I   Q   L   I   Q   N   H>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

200          210          220          230          240
TTT GTG GAC GAA TAC GAC CCC ACT ATA GAG GAT TCC TAC CGG AAG CAG
F   V   D   E   Y   D   P   T   I   E   D   S   Y   R   K   Q>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

250          260          270          280          290
GTG GTC ATT GAT GGG GAG ACG TGC CTG TTG GAC ATC CTG GAT ACC GCC
V   V   I   D   G   E   T   C   L   L   D   I   L   D   T   A>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

300          310          320          330          340
GGC CAG GAG GAG TAC AGC GCC ATG CGG GAC CAG TAC ATG CGC ACC GGG
G   Q   E   E   Y   S   A   M   R   D   Q   Y   M   R   T   G>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

350          360          370          380
GAG GGC TTC CTG TGT GTG TTT GCC ATC AAC AAC ACC AAG TCT TTT GAG
E   G   F   L   C   V   F   A   I   N   N   T   K   S   F   E>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

390          400          410          420          430
GAC ATC CAC CAG TAC AGG GAG CAG ATC AAA CGG GTG AAG GAC TCG GAT
D   I   H   Q   Y   R   E   Q   I   K   R   V   K   D   S   D>
____b__b__b__b__b__b__HUMAN H- RAS G12V____b__b__b__b__b____>

```

440 450 460 470 480
GAC GTG CCC ATG GTG CTG GTG GGG AAC AAG TGT GAC CTG GCT GCA CGC
D V P M V L V G N K C D L A A R>
___b___b___b___b___b___HUMAN H- RAS G12V___b___b___b___b___b___>

490 500 510 520 530
ACT GTG GAA TCT CGG CAG GCT CAG GAC CTC GCC CGA AGC TAC GGC ATC
T V E S R Q A Q D L A R S Y G I>
___b___b___b___b___b___HUMAN H- RAS G12V___b___b___b___b___b___>

540 550 560 570 580
CCC TAC ATC GAG ACC TCG GCC AAG ACC CGG CAG GGA GTG GAG GAT GCC
P Y I E T S A K T R Q G V E D A>
___b___b___b___b___b___HUMAN H- RAS G12V___b___b___b___b___b___>

590 600 610 620
TTC TAC ACG TTG GTG CGT GAG ATC CGG CAG CAC AAG CTG CGG AAG CTG
F Y T L V R E I R Q H K L R K L>
___b___b___b___b___b___HUMAN H- RAS G12V___b___b___b___b___b___>

630 640 650 660 670
AAC CCT CCT GAT GAG AGT GGC CCC GGC TGC ATG AGC TGC AAG TGT GTG
N P P D E S G P G C M S C K C V>
___b___b___b___b___b___HUMAN H- RAS G12V___b___b___b___b___b___>

>XhoI >XbaI >ApaI >PmeI
| | | |
680 | 690 | 700 | 710
CTC TCC TGA CT CGA GTC TAG AGG GCC CGT TTA AAC
L S *>
___b___b___>