

## Appendix 2:

### PRIMERS:

BAM H1 Start Primer (forward):

gccgaggtgatccatgccttcgtgggggc

EcoR1 End Primer (reverse):

gccgaggtgaattcttataggggtctaaagttcac

ApoI primer:

tac aac aaa ttc cgt tac aac act ag

### MUTATION PRIMERS:

\*Residues were changed to Ala.

I.- MUTATION FOR WD40-1 and WD40-2: SSTVS, SVYQS

WD40-1: SSTVS (position 304):

I C I F S S T V S F A  
atc tgc att ttt **tcg tcg** acg gtc tcc ttc gcg

Forward: c tgc att ttt **gcg gcg** acg gtc tcc t

Reverse: a gga gac cgt **cgc cgc** aaa aat gca g

WD40-2: SVYQS (position 380):

P D M V S V Y Q S L G R V  
ccg gac atg gtg **tcc** gtg tac cag **tcc** ctg gga cgg gtg

Forward: g gac atg gtg **gcc** gtg tac cag **gcc** ctg gga cgg g

Reverse: c ccg tcc cag **ggc** ctg gta cac **ggc** cac cat gtc c

II.-MUTATION SH2 : YVKP (position 368)

G M F A Y V K P M N  
ggc atg ttc gcc **tac** gtg aaa ccc ccc atg

Forward: c atg ttc gcc **gcc** gtg aaa ccc a

Reverse: t ggg ttt cac **ggc** ggc gaa cat g

III.- MUTATIONS for MDM2-1 and MDM2-2: FKIIWGEL (position 132 and 136)

MDM2-1:

A V A L F K I I W G E L F G  
gcg gtg gcg ctg **ttc** aag ata atc tgg ggc gaa ctg ttt ggc

Forward: g gtg gcg ctg **gcc** aag ata atc t

Reverse: a gat tat ctt **ggc** cag cgc cac c

MDM2-2:

A V A L F K I I W G E L F G  
gcg gtg gcg ctg ttc aag ata atc **tgg** ggc gaa ctg ttt ggc

Forward: c aag ata atc **gcg** ggc gaa ctg t

Reverse: a cag ttc gcc **cgc** gat tat ctt g

IV.-MUTATION for LC8-1 and LC8-2: KSTQT (positions 746-750)

-KST:

V Q M A K S T Q T F P  
gtg cag atg gcc **aaa agc acg** cag acg ttt ccc

Forward 1: g cag atg gcc **gca gcc gcg** cag acg ttt c

Reverse 1: g aaa cgt ctg **cgc ggc tgc** ggc cat ctg c

-QT:

Q M A K S T Q T F P G A  
cag atg gcc aaa agc acg cag acg ttt ccc ggg gcg

Forward: c aaa agc acg **gcg gcg** ttt ccc ggg g

Reverse: c ccc ggg aaa **cgc cgc** cgt gct ttt g

LC8 deletion:

Forward: ggc gtg cag atg gcc ttt ccc ggg gcg ggg

Reverse: ccc cgc ccc ggg aaa ggc cat ctg cac gcc

## V.- MUTATIONS FOR INTERACTION WITH NUCLEAR RECEPTORS: LYALL

### Nuclear Receptor-1:

T H R Q L Y A L L M A H K  
acc cac agg cag **ctg** tac gcc ctg ctt atg gcc cac aag

Forward: c cac agg cag **gcg** tac gcc ctg c  
Reverse: g cag ggc gta **cgc** ctg cct gtg g

### Nuclear Receptor-2:

T H R Q L Y A L L M A H K  
acc cac agg cag ctg tac gcc **ctg ctt** atg gcc cac aag

Forward: g ctg tac gcc **gcg gct** atg gcc cac a  
Reverse: t gtg ggc cat **agc cgc** ggc gta cag c

### NEW PRIMER DESIGN FOR:

MUTATION LC8: KST-QT (change to Ala)

#### -KST:

E L F G V Q M A K S T Q T F P G A G R  
gaa ctg ttt ggc gtg cag atg gcc **aaa agc agc** cag acg ttt ccc ggg gcg ggg cgc

Forward 1: ggc gtg cag atg gcc **gca gcc gcg** cag acg ttt ccc ggg  
Reverse 1: ccc ggg aaa cgt ctg **cgc ggc tgc** ggc cat ctg cac gcc

#### -QT:

E L F G V Q M A K S T Q T F P G A G R  
gaa ctg ttt ggc gtg cag atg gcc aaa agc acg cag acg ttt ccc ggg gcg ggg cgc

Forward: atg gcc aaa agc acg **gcg gcg** ttt ccc ggg gcg ggg  
Reverse: ccc cgc ccc ggg aaa **cgc cgc** cgt gct ttt ggc cat

MUTATION MDM2: FKIIWGEL (F and W change to Ala)

#### -F:

T D H A V A L F K I I W G E L F G  
acg gac cac gcg gtg gcg ctg **ttc** aag ata atc tgg ggc gaa ctg ttt ggc

Forward: cac gcg gtg gcg ctg **gcc** aag ata atc tgg ggc

Reverse: gcc cca gat tat ctt **ggc** cag cgc cac cgc gtg

-PRIMER FOR TRUNCATION (of mutants SH2 and WD40):

394His-R: ggtgaattcctaatgatgatgatgatgatggcccctgcggagggt

PRIMER FOR FRAGMENTS (LC8 and MDM2 mutants):

UL9-C F (535-851): ggtgatccatgcatcatcatcatatgatcccaggcgtcg