

**Insulin Receptor: *Mus musculus* strain C57BL/6J chromosome 8,
GRCm38.p1 C57BL/6J, from 19521 bp to 20367 bp.**

NCBI Reference Sequence: NC_000074.6

1 2 3

ggacaggaga **cg**cac**cgcg** tgagctctgg actctggat tg**cg**ggca**cg** ggac**cg**ggcc -232

4-5-6 7-8-9 10

tgggtgacct g**cggc****cgcg** ccac**cg**gtt gcttg**cggc** gaggcctctg tgctttcc**c** -172

11 12-13

gggactgtcc ccagggccct ctaggctgga gagctg**cgc** ctgtgagcca **cggcgc**tggaa -112

14-15-16 17 18

agagaaggac **gtgcgc**cccc **gagcg**cctct ccagagacct tctca**eg**gag tatgtcccc -52

19-20-21 22-23 CDS →
ATG

gtaggc**cggc** gtgg**cgt**tgct ctgat**cgcgcg** gggtcccagc actcctactg ct**A**TGggctt +8

24 25 26 27-28-29

cgggagagga tgtgaga**eg**a **cg**gctgtgcc attgctggtg gc**eg**ttggc**eg** **eg**tttgctgg +68

30 31

gggcacagc**c** **g**gccacctgt accctggaga gggtaagtct gggacaagag **g****cg**atcacag +128

32 33

tatgt**cggg** acacttctcc cac**cgc**ccccca gccaatctag aaccctcacc ctaaggagtg +188

34 35

agggt**cggg** acacccctct ccac**cgc**cac agccaaccta gagaattctc cctttgggct +248

36

gagtaatggg gacaaccctt cccattgctc catacaactt agagcccccc aggccccacc +308

aaggagtcag ggttacagac acccatttca ccactccagc aatatagtcc ttca**eg**aga +368

37 38

gttgtggaca tttt**cgtt** ttcttccatc aacctagagc cccctctcca **cg**gactgaag +428

39 40

gttgaagact cc**cgt**ag**cgt** ctttgtgtct atgaagagtc ccctccstat agtgatcatc +488

41

42

tttacactgg ggaaggggaa gagtgggttt ggtggccctg gccctg~~egtg~~ aaaccc~~cggc~~ +548

Figure S3: Genomic localization and nucleotide sequence of the Insulin Receptor gene analyzed in this work by MassArray Epityper technique. CpG dinucleotides are located in the exon and intron 1 of the Cav-1 gene (from -249 to 445 pb from ATG codon (+1)) are shadowed. ATG codon indicates the Translation Start Site (CDS). Due to the limitation of the technique, DNA methylation of some CpGs sites could not be measured (crossed out), or were measured together with others (indicated as boxed CpGs sites).