

ERRATUM

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Mutant Insulin Syndromes

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In this article we inadvertently published a wrong Figure 5. The correct Figure 5 is as follows:

HYPERVARIABLE REGION

CCCCCTCCCTCACTCCCACTCTCCACCCACCACCTTGGCCCATCCATGGCGGCATCTTGGCCATCCGGGACTGGGG (ACAGGGGTCTGGGGACAGGGGTCCGGGACAGGGTCTGGG -807
GACAGGGGTGTGGGGACAGGGGTCTGGGGACAGGGGTGTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGT -686
CTGGGGACAGGGGTGTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGACAGGGGTCTGGGGAC -565
AGGGGTGTGGGGACAGGGGTCTGGGGATAGGGGTGTGGGGACAGGGGTGTGGGGACAGGGGTCTGGGGACAGGGGTGTGGGGACAGGGGTCTGGGGACAGGGGT -444
CTGAGGACAGGGGTGTGGGCACAGGGTCTGGGGACAGGGTCTGGGGACAGGGTCTGGGGACAGGGTCTGGGG) ACAGCAGCGCAAAGACCCCGCCCTGCAGCTCCAGTCTCC -323
TGGTCTAATGTGAAAGTGCCAGGTGAGGGCTTTGCTCTCTCTGGAGACATTTGCCCCAGCTGTGAGCAGGGACAGGTCTGGCCACGGGGCCCTGGTTAAGACTCTAATGACCCGCTG -202
GTCTTGAGGAAGAGTGTGACGACCAAGGAGATCTTCCACAGACCCAGCACCAGGAAATGGTCGAAATGACGCTCAGCCCCAGCCATCTGCCGACCCCCACCCAGGCCCT -81

EXON 1

AATGGCCAGGCGCAGGGGTGACAGGTAGGGGAGATGGGCTCTGAGACTATAAAGCCAGCGGGGCCAGCAGCCCTC AGCCCTCCAGGACAGGCTGCATCAGAAGAGGCCATCAAGCA 41
INTRON A
G GTCTGTTCACAGGCCTTTGCGTCAGTGGGCTCAGGGTTCAGGGTGGCTGGACCCAGGCCAGCTCTGAGCAGGGAGGACGTGGCTGGCTCGTGAAGCATGTGGGGGTGAGCCC 162

EXON 2

AGGGGCCCAAGCAGGGCACCTGCCTTCAGCCTGCCTCAGCCCTGCCTGTCTCCAG ATCACTGTCTTCTGCC ATG GCC CTG TGG ATG CGC CTC CTG CCC CTG CTG 271

-24 Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu
-20

Ala Leu Leu Ala Leu Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala Leu Tyr Leu 361
GCG CTG CTG GCC CTC TGG GGA CCT GAC CCA GCC GCA GCC TTT GTG AAC CAA CAC CTG TGC GGC TCA CAC CTG GTG GAA GCT CTC TAC CTA
G Asp

20 30

Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln V INTRON B 461
GTG TGC GGG GAA CGA GGC TTC TTC TAC ACA CCC AAG ACC CGC CGG GAG GCA GAG GAC CTG CAG G GTGAGCCAACCGCCCATGTGTCGCCCTGGCCGCC

10

CAGCCACCCCTGCTCTGGCGCTCCACCCAGCATGGGAGAAGGGGGCAGGAGGCTGCCACCCAGCAGGGGTCAAGTGACATTTTTTAAAAAGAAGTTCTCTGGTACAGTCTCTAAAA 582
GTGACCAGCTCCCTGTGGCCAGTCAAGTCTCAGCCTGAGGACGGTGTGGCTTCGGCAGCCCCGAGATACATCAGAGGGTGGGCACGCTCTCCCTCCACTCGCCCCCAAACAAATGC 703
CCCGCAGCCATTTCTCCACCCTCATTTGATGACCGCAGATTCAAGTGTGTTGTTAAGTAAAGTCTGGGTGACCTGGGTACAGGGTCCCCACGCTGCCTGCTGGGCGAACCCC 824
CATCAGCCCGGAGGAGGGGTGGCTGCCTGCCTGAGTGGCCAGACCCCTGTGCCAGCCTCAGCGCAGCTCCATAGTCAGGAGATGGGAAGATGCTGGGGACAGGCCCTGGGAGAAG 945
TACTGGGATACCTGTTTCAAGGCTCCACTGTGACGCTGCCCGGGGGGGGAAGGAGTGGGACATGTGGCGCTGGGGCCCTGAGTCCACACCCAGTGTGGGTGACCCCTCCTCTAAC 1,066
CTGGGTCCAGCCCGGCTGGAGATGGTGGGAGTGGCACTAGGGCTGGCGGGCAGGCGGGCAGTGTGTCTCCCTGACTGTGTCTCTCTGTGTCCTCTGCTCGCCGCTGTTCGGAACT 1,187

EXON 3

GCTCTGGCGGCACGTCTGGCAG TG GGG CAG GTG GAG CTG GGC GGG GGC CCT GGT GCA GGC AGC CTG CAG CCC TTG GCC CTG GAG GGG TCC CTG 1,282

70 80 86

Gln Lys Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn AM 1,378
CAG AAG CGT GGC ATT GTG GAA CAA TGC TGT ACC AGC ATC TGC TCC CTC TAC CAG CTG GAG AAC TAC TGC AAC TAG ACGCAGCTGCAGGCAGCCCC
His T Leu

POLYADENYLATION SITE

ACACCCGCGCCCTCTGCACCCAGAGAGATGGAATAAGCCCTGAACACAGC CCTGCTGTGCCGTCTGTGTCTTGGGGCCCTGGGCCAAGCCCACTTCCCGGCACTGTTGTGAGCCC 1,499

Fig. 5 The sequence of the insulin gene, including the hypervariable region, the enhancer/promotor region, the exons encoding the insulin B-chain, C-peptide, the A chain, and the two introns which are present in the primary transcript of the insulin gene, but must be removed before the insulin messenger RNA can be translated. Also shown in boxes are the substitutions in the insulin gene that lead to aminoacid replacements.