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(54) **Title:** COMPOSITIONS, REAGENTS AND KITS FOR AND METHODS OF DIAGNOSING, MONITORING AND TREATING OBESITY AND/OR DIABETES

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SEQID22         MLLLGAVLLLLALPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG 60
SEQID23         ------------------------------------------------------------
SEQID24         MLLLGAVLLLLALPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG 60
SEQID25         MLLLGAVLLLLALPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG 60

SEQID22         TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE 120
SEQID23         ------------------------MPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE 36
SEQID24         TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGA------------ 108
SEQID25         TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE 120

SEQID22         TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDK 180
SEQID23         TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDK 96
SEQID24         ------------------------------------------------------------ 108
SEQID25         TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLY---------------------- 158

SEQID22         AMLFTYDQYQENNVDQASGSVLLHLEVGDQVWLQVYGEGERNGLYAD--NDND-STFTGF 237
SEQID23         AMLFTYDQYQENNVDQASGSVLLHLEVGDQVWLQVYGEGERNGLYAD--NDND-STFTGF 153
SEQID24         ----------------------LLS-PTCPFALPRSSTISKTTMMAP--LVNSTATFLGC 143
SEQID25         ------------------------------------------------------------ 158

SEQID22         LLYHDTN---------- 244
SEQID23         LLYHDTN---------- 160
SEQID24         T----T-LP-TTSQSI- 153
SEQID25         ---------LHRLSSLP 166
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(57) **Abstract:** The present invention concerns thirteen novel variants of alternative splicing of the obesity and/or diabetes related genes.

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