TABLE IV-continued

```
                                                  1770                                                  1800
AAA GTC TTG GAA ATG ACA GGA AAT ATT GAT GAA GCA GAA TGG GAG TGG AAA GCA GGA TTC
Lys Val Leu Glu Met Thr Gly Asn Ile Asp Glu Ala Glu Trp Glu Trp Lys Ala Gly Phe

                                                  1830                                                  1860
CAT CGC TGG AAC AAT TAC ATG ATG GAC TGG AAA AAT CAA TTT AAC GAT TAC ACT AGC AAG
His Arg Trp Asn Asn Tyr Met Met Asp Trp Lys Asn Gln Phe Asn Asp Tyr Thr Ser Lys

                                                  1890                                                  1920
AAA GAA AGT TGT GTG GGT CTC TAA TAA ATA GAT TTA CCC TTT ATA GAA CAT ATT TTC CTT
Lys Glu Ser Cys Val Gly Leu End

                                                  1950                                                  1980
TAG ATC AAG GCA AAA ATA TCA GGA GCT TTT TTA CAC ACC TAC TAA AAA AGT TAT TAT GTA

                                                  2010                                                  2040
GCT GAA ACA AAA ATG CCA GAA GGA TAA TAT TGA TTC CTC ACA TCT TTA ACT TAG TAT TTT

                                                  2070                                                  2100
ACC TAG CAT TTC AAA ACC CAA ATG GCT AGA ACA TGT TTA ATT AAA TTT CAC AAT ATA AAG

                                                  2130                                                  2160
TTC TAC AGT TAA TTA TGT GCA TAT TAA AAC AAT GGC CTG GTT CAA TTT CTT TCT TTC CTT

                                                  2190                                                  2220
AAT AAA TTT AAG TTT TTT CCC CCC AAA ATT ATC AGT GCT CTG CTT TTA GTC ACG TGT ATT

                                                  2250                                                  2280
TTC ATT ACC ACT CGT AAA AAG GTA TCT TTT TTA AAT GAA GTT AAA TAT TGA AAC ACT GTA

                                                  2310                                                  2340
CAC CAT AGT TTA CAA TAA TTA GTG TTT CCT AAG TTA AAA TAA GAA TTG AAT GTC AAT AAT

                                                  2370                                                  2400
GAG AAT AAT TAA AAT AAG CAC AGA AAA TCA CAA AAA AAA ACA AAA AAA AAA AAA AAA AAA
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What is claimed is:

1. A recombinant human gene encoding a polypeptide or protein having human pseudocholinesterase enzymatic activity.

2. The recombinant gene according to claim 1, wherein said gene is selected from the group consisting of genomic DNA, cDNA, or mRNA.

3. The recombinant gene according to claim 1, wherein said gene comprises the following cDNA sequence:

```
ATT TCC CCG AAG TAT TAC ATG ATT TTC ACT CCT    33
Ile Ser Pro Lys Tyr Tyr Met Ile Phe Thr Pro

TGC AAA CTT TGC CAT CTT TGT TGC AGA GAA TCG    66
Cys Lys Leu Cys His Leu Cys Cys Arg Glu Ser

GAA ATC AAT ATG CAT AGC AAA GTC ACA ATC ATA    99
Glu Ile Asn Met His Ser Lys Val Thr Ile Ile

TGC ATC AGA TTT CTC TTT TGG TTT CTT TTG CTC    132
Cys Ile Arg Phe Leu Phe Trp Phe Leu Leu Leu

TGC ATG CTT ATT GGG AAG TCA CAT ACT GAA GAT    165
Cys Met Leu Ile Gly Lys Ser His Thr Glu Asp

GAC ATC ATA ATT GCA ACA AAG AAT GGA AAA GTC    198
Asp Ile Ile Ile Ala Thr Lys Asn Gly Lys Val

AGA GGG ATG AAC TTG ACA GTT TTT GGT GGC ACG    231
Arg Gly Met Asn Leu Thr Val Phe Gly Gly Thr

GTA ACA GCC TTT CTT GGA ATT CCC TAT GCA CAG    264
Val Thr Ala Phe Leu Gly Ile Pro Tyr Ala Gln

CCA CCT CTT GGT AGA CTT CGA TTC ACA AAG CCA    297
Pro Pro Leu Gly Arg Leu Arg Phe Thr Lys Pro

CAG TCT CTG ACC AGG TGG TCT GAT ATT TGG ACT    330
Gln Ala Thr Lys Tyr Ala Asn Ser Cys Cys Gln

GCC ACA AAA TAT GCA AAT TCT TGC TGT CAG AAC    363
Ser Leu Thr Arg Trp Ser Asp Ile Trp Thr Asn
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