MAAASSPPRAERKRWGWGRLPGARRGSAGLAKKCPFSLELAEGGPAGGALYAPIAPGAPGPAPPASPAAPAAPPVASDLGPRPPVSLDPRVSIY
A46T
P73T
STRRPVLARTHVQGRVYNFLERPTGWKCFVYHFAVFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGLW
Transmembrane domain 1
Transmembrane domain 2
V110I (polymorphism)
Y111C
L114P
P117L
S140G
E160K
G168R
R174C/R174H
A178P
G179S
Y184S
G186R
GRLRFARKPISIIDLIVVVASMVVLCVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRLLGSVVFIHRQELITTLYIGFLGLIFSSYFVYL
Transmembrane domain 3
Transmembrane domain 4
Transmembrane domain 5
G189R
L191P
F193L
R190Q
D202H/D202N
I204F/I204M
V207M (polymorphism)
S209F
V215M
S225L
R231C/R231H
I235N
L239P
D242N
R243C/R243H
W248R
L251P
V254M/V254L
H258R
R259L/R259C
E261K/E261D
L266P
G269S/G269D
L273F
I274V
F275S
S277L
AEKDAVNESGRVEFGSYADALWWGVVTVTTIGYGDKVPQTWVGKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFNRQIPAAASLIQ
Transmembrane domain 5
Transmembrane domain 6
Selective filter
Pore helix
G306V/G306R
Y315S/Y315C
R293C
F296S
A300T
A302V
W305S
V310I
T311I
T312I
G314S
G316E
P320A
T322A/T322M
G325R
F339S
A341E/A341V
P343S
A344V
G345R/G345E
S349W
R360G
K362R
R366W/R366Q
S373P
TAWRCYAAENPDSSTWKIYIRKAPRSHTLLSPSPKPKKSVVVKKKKFKLDKDNGVTPGEKMLTVPHITCDPPEERRLDHFSVDGYDSSVRKSPT
K393N (polymorphism)
P408A (polymorphism)
P441S (polymorphism)
P448R (polymorphism)
T391I
W392R
R397W
R451Q
H455Y
LLEVSMPHFMRTNSFAEDLDLEGETLLTPITHISQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMVRIKELQRRLD
S484T (polymorphism)
M520R
V524G
R533W
S546L
R555C
QSIGKPSLFISVSEKSKDRGSNTIGARLNRVEDKVTQLDQRLALITDMLHQLLSLHGGSTPGSGGPPREGGAHITQPCGSGGSVDPELFLPSNT
G643S (polymorphism)
V648I (polymorphism)
S566F
G568R
T587M
A590T
G589D
R591H
R594Q
T600M
D611Y
LPTYEQLTVPRRGPDEGS