Top AA variants of breast cancer are (n=50):

Asia:  
p.H1047R (22.8758%)  
p.E545K (3.1863%)  
p.E542K (2.9412%)  
p.G44D (2.5327%)  
p.G44S (2.5327%)  
p.H1047L (2.1242%)  
p.G44V (1.5523%)  
p.E545A (1.0621%)  
p.G44C (0.6536%)  
p.G44R (0.5719%)  
p.K42\_G53del (0.5719%)  
p.L36R (0.4085%)  
p.N345K (0.3268%)  
p.G44A (0.3268%)  
p.K42\_V51del (0.2451%)  
p.A1020V (0.2451%)  
p.L39\_A50del (0.1634%)  
p.E542G (0.1634%)  
p.E545G (0.1634%)  
p.Q546P (0.1634%)  
p.H1065Qfs\*5 (0.1634%)  
p.K733R (0.1634%)  
p.Q43P (0.1634%)  
p.I1062V (0.0817%)  
p.A995= (0.0817%)  
p.T1025A (0.0817%)  
p.A38\_F45del (0.0817%)  
p.T1052A (0.0817%)  
p.N40\_K42del (0.0817%)  
p.A533V (0.0817%)  
p.G1049R (0.0817%)  
p.W1057\* (0.0817%)  
p.C420Ifs\*10 (0.0817%)  
p.E726K (0.0817%)  
p.I225M (0.0817%)  
p.C420R (0.0817%)  
p.P421del (0.0817%)  
p.L422W (0.0817%)  
p.P447\_L455del (0.0817%)  
p.N142T (0.0817%)  
p.H419Tfs\*9 (0.0817%)  
p.L540F (0.0817%)  
p.N347\_I348insMNVN (0.0817%)  
p.E542Q (0.0817%)  
p.E542V (0.0817%)  
p.D1056N (0.0817%)  
p.E547K (0.0817%)  
p.Q546K (0.0817%)  
p.E545L (0.0817%)  
p.Q43\_P49delinsH (0.0817%)  
  
  
The world:  
p.H1047R (7.1347%)  
p.E545K (2.9904%)  
p.E542K (1.9048%)  
p.H1047L (0.8456%)  
p.N345K (0.5307%)  
p.C420R (0.2422%)  
p.E545A (0.207%)  
p.E726K (0.1762%)  
p.E545X (0.1255%)  
p.Q546K (0.1035%)  
p.G1049R (0.0991%)  
p.Q546R (0.0969%)  
p.E453K (0.0837%)  
p.E545G (0.0837%)  
p.G118D (0.0705%)  
p.M1043I (0.0727%)  
p.H1047? (0.0617%)  
p.E545Q (0.0595%)  
p.Q546P (0.0506%)  
p.H1047Y (0.0484%)  
p.E81K (0.0506%)  
p.P539R (0.0484%)  
p.N1044K (0.0462%)  
p.E418K (0.033%)  
p.E545D (0.0264%)  
p.K111N (0.0308%)  
p.K111E (0.0308%)  
p.R88Q (0.0286%)  
p.M1043V (0.0286%)  
p.E707K (0.0264%)  
p.E110del (0.0264%)  
p.E542Q (0.0242%)  
p.P104L (0.0176%)  
p.E970K (0.022%)  
p.E78K (0.022%)  
p.Q546E (0.022%)  
p.Q546H (0.0176%)  
p.M1004I (0.0176%)  
p.E453Q (0.0198%)  
p.G106\_R108del (0.0154%)  
p.P366R (0.0154%)  
p.V344M (0.0154%)  
p.H1047Q (0.0154%)  
p.C901F (0.0176%)  
p.E542G (0.0176%)  
p.K111del (0.0176%)  
p.N345I (0.0176%)  
p.T1025A (0.0154%)  
p.D350N (0.0154%)  
p.G106V (0.0132%)  
p.H419\_C420del (0.0132%)  
p.H1048R (0.0132%)  
p.M1043L (0.0132%)  
p.E365K (0.0088%)  
p.G106R (0.0088%)  
p.N1068Kfs\*5 (0.011%)  
p.R93Q (0.011%)  
p.C378F (0.0088%)  
p.R108H (0.0088%)  
p.G1007R (0.0088%)  
p.L452\_P458del (0.0044%)  
p.E39K (0.0088%)  
p.P471A (0.0088%)  
p.Q958K (0.0088%)  
p.H1047\_H1048delinsRR (0.0088%)  
p.A1066V (0.0088%)  
p.Y1021H (0.0088%)  
p.E110K (0.0088%)  
p.V105\_R108del (0.0088%)  
p.G364R (0.0088%)  
p.E542V (0.0088%)  
p.I31M (0.0088%)  
p.E547K (0.0088%)  
p.T1025= (0.0088%)  
p.R93W (0.0088%)  
p.L113\_N114del (0.0022%)  
p.M1040T (0.0022%)  
p.G451\_L456delinsV (0.0044%)  
p.E80K (0.0066%)  
p.P104\_V105delinsL (0.0066%)  
p.P447\_L455del (0.0066%)  
p.R93L (0.0066%)  
p.H1065L (0.0066%)  
p.K111\_I112delinsN (0.0066%)  
p.N107I (0.0066%)  
p.D939G (0.0066%)  
p.N1044Y (0.0066%)  
p.F909L (0.0066%)  
p.E542A (0.0066%)  
p.R108del (0.0066%)  
p.H701P (0.0066%)  
p.\*1069Ffs\*5 (0.0066%)  
p.E453\_P466del (0.0066%)  
p.D1029H (0.0066%)  
p.H1047P (0.0066%)  
p.A1020V (0.0066%)  
p.E525K (0.0066%)  
p.Y1021C (0.0044%)  
p.E453V (0.0022%)  
p.H450\_D454del (0.0022%)  
p.Q137K (0.0044%)  
p.C420\_P421del (0.0044%)  
p.G8D (0.0044%)  
p.P104\_G106delinsR (0.0022%)  
p.C604R (0.0022%)  
p.K111\_I112del (0.0022%)  
p.N457K (0.0044%)  
p.W11L (0.0044%)  
p.E385K (0.0044%)  
p.D138N (0.0044%)  
p.E978Q (0.0044%)  
p.L456Afs\*13 (0.0044%)  
p.N142K (0.0044%)  
p.S629C (0.0044%)  
p.N345H (0.0044%)  
p.L452Qfs\*5 (0.0044%)  
p.L455Wfs\*6 (0.0044%)  
p.D1017H (0.0044%)  
p.C407F (0.0044%)  
p.L144= (0.0044%)  
p.D725G (0.0044%)  
p.L252F (0.0044%)  
p.G1049S (0.0044%)  
p.N345T (0.0044%)  
p.V71= (0.0044%)  
p.M1040V (0.0044%)  
p.V344G (0.0044%)  
p.P124L (0.0044%)  
p.N497S (0.0044%)  
p.K733R (0.0044%)  
p.E600K (0.0044%)  
p.I1058F (0.0044%)  
p.N345Y (0.0044%)  
p.V105del (0.0044%)  
p.G122A (0.0044%)  
p.Y392H (0.0044%)  
p.L452\_G460del (0.0044%)  
p.I102N (0.0044%)  
p.H1047I (0.0022%)  
p.C378Y (0.0044%)  
p.D1017E (0.0044%)  
p.I1019V (0.0044%)  
p.K567R (0.0044%)  
p.T1025S (0.0044%)  
p.\*1069? (0.0044%)  
p.L293V (0.0044%)  
p.T1052K (0.0044%)  
p.D454N (0.0044%)  
p.I102\_E103delinsK (0.0044%)  
p.A694S (0.0022%)  
p.I391M (0.0044%)  
p.Y985S (0.0044%)  
p.H1065Qfs\*5 (0.0044%)  
p.Q546X (0.0044%)  
p.Q546L (0.0044%)  
p.N145= (0.0022%)  
p.L989V (0.0022%)  
p.D603H (0.0022%)  
p.L456= (0.0022%)  
p.K111\_L113delinsN (0.0022%)  
p.K548T (0.0022%)  
p.D926N (0.0022%)  
p.L866W (0.0022%)  
p.L839V (0.0022%)  
p.S326Y (0.0022%)  
p.H917N (0.0022%)  
p.E103\_P104del (0.0022%)  
p.\*1069Wext\*4 (0.0022%)  
p.G696R (0.0022%)  
p.Q705\* (0.0022%)  
p.C407W (0.0022%)  
p.S673T (0.0022%)  
p.F70= (0.0022%)  
p.P104R (0.0022%)  
p.F614I (0.0022%)  
p.G927R (0.0022%)  
p.L755= (0.0022%)  
p.L766F (0.0022%)  
p.N388K (0.0022%)  
p.S541= (0.0022%)  
p.L156= (0.0022%)  
p.L1067F (0.0022%)  
p.L452Tfs\*20 (0.0022%)  
p.L456Vfs\*14 (0.0022%)  
p.I459S (0.0022%)  
p.G914R (0.0022%)  
p.F83L (0.0022%)  
p.N345D (0.0022%)  
p.A907P (0.0022%)  
p.W11G (0.0022%)  
p.N107\_R108>S (0.0022%)  
p.E726G (0.0022%)  
p.E418\* (0.0022%)  
p.I225M (0.0022%)  
p.I112F (0.0022%)  
p.L1036S (0.0022%)  
p.P421del (0.0022%)  
p.L422W (0.0022%)  
p.L764= (0.0022%)  
p.L297= (0.0022%)  
p.L531V (0.0022%)  
p.P449T (0.0022%)  
p.E365Q (0.0022%)  
p.G1050S (0.0022%)  
p.R38C (0.0022%)  
p.E365V (0.0022%)  
p.N142T (0.0022%)  
p.D350G (0.0022%)  
p.P124S (0.0022%)  
p.N347K (0.0022%)  
p.E453G (0.0022%)  
p.G122D (0.0022%)  
p.R357Q (0.0022%)  
p.V611= (0.0022%)  
p.R398H (0.0022%)  
p.K46Sfs\*26 (0.0022%)  
p.N515S (0.0022%)  
p.R140\* (0.0022%)  
p.D549A (0.0022%)  
p.C420Ifs\*10 (0.0022%)  
p.H419Tfs\*9 (0.0022%)  
p.F909= (0.0022%)  
p.N107Y (0.0022%)  
p.F83S (0.0022%)  
p.G106\_E109del (0.0022%)  
p.Y1021N (0.0022%)  
p.H450\_L455del (0.0022%)  
p.C378W (0.0022%)  
p.H1065Lfs\*5 (0.0022%)  
p.K204N (0.0022%)  
p.S6L (0.0022%)  
p.E103\_P104delinsA (0.0022%)  
p.N347\_I348insMNVN (0.0022%)  
p.V448\_G451del (0.0022%)  
p.V105\* (0.0022%)  
p.P104Sfs\*5 (0.0022%)  
p.L719V (0.0022%)  
p.Y355\_G363dup (0.0022%)  
p.C420\_L422delins\* (0.0022%)  
p.G106\_N107del (0.0022%)  
p.L877= (0.0022%)  
p.L402H (0.0022%)  
p.N515D (0.0022%)  
p.S553N (0.0022%)  
p.E1037K (0.0022%)  
p.A1066S (0.0022%)  
p.N1044S (0.0022%)  
p.V344A (0.0022%)  
p.A1046= (0.0022%)  
p.V409I (0.0022%)  
p.P104\_G106del (0.0022%)  
p.L113del (0.0022%)  
p.P471L (0.0022%)  
p.D350H (0.0022%)  
p.L748I (0.0022%)  
p.Y343F (0.0022%)  
p.E542R (0.0022%)  
p.H450\_P458del (0.0022%)  
p.H1047N (0.0022%)  
p.R38H (0.0022%)  
p.I273V (0.0022%)  
p.A1046T (0.0022%)  
p.V105\_G106del (0.0022%)  
p.N1044H (0.0022%)  
p.R108\_E109delinsQ (0.0022%)  
p.E722D (0.0022%)  
p.R115L (0.0022%)  
p.H1065Y (0.0022%)  
p.Q1064H (0.0022%)  
p.E103\_G106delinsD (0.0022%)  
p.H1048L (0.0022%)  
p.D520V (0.0022%)  
p.G451R (0.0022%)  
p.E453del (0.0022%)  
p.S405F (0.0022%)  
p.R1023L (0.0022%)  
p.Q60K (0.0022%)  
p.R108\_I112delinsL (0.0022%)  
p.T1025I (0.0022%)  
p.G1049A (0.0022%)  
p.P566L (0.0022%)  
p.D538Y (0.0022%)  
p.A511T (0.0022%)  
p.N1068fs\*? (0.0022%)  
p.D1056N (0.0022%)  
p.H1047T (0.0022%)  
p.R93P (0.0022%)  
p.E110\_N114>D (0.0022%)  
p.L531P (0.0022%)  
p.L523S (0.0022%)  
p.E545L (0.0022%)  
p.L540F (0.0022%)  
p.A1046V (0.0022%)  
p.W1057\* (0.0022%)  
p.Q1064Tfs\*9 (0.0022%)  
p.T1052A (0.0022%)  
p.A533V (0.0022%)  
p.I1062V (0.0022%)  
p.P539S (0.0022%)  
p.A1035V (0.0022%)  
p.E1012K (0.0022%)  
p.R1023Q (0.0022%)  
p.M130T (0.0022%)  
p.A995= (0.0022%)  
p.M1040I (0.0022%)  
p.R175H (0.4316%)  
p.R248Q (0.3501%)  
p.R273H (0.3391%)  
p.R248W (0.2753%)  
p.R213\* (0.2356%)  
p.Y220C (0.1806%)  
p.R273C (0.1784%)  
p.R342\* (0.1453%)  
p.R196\* (0.1299%)  
p.R282W (0.1233%)  
p.R306\* (0.1145%)  
p.I195T (0.1167%)  
p.Y163C (0.0991%)  
p.E285K (0.1101%)  
p.G245S (0.1079%)  
p.M237I (0.0991%)  
p.H179R (0.0925%)  
p.Q192\* (0.0903%)  
p.H193R (0.0727%)  
p.C238Y (0.0661%)  
p.0 (0.0639%)  
p.L194R (0.0639%)  
p.S241F (0.0617%)  
p.H179Y (0.0573%)  
p.Y236C (0.0639%)  
p.V216M (0.0551%)  
p.R280K (0.0595%)  
p.G266E (0.0595%)  
p.R337C (0.0528%)  
p.C135Y (0.0551%)  
p.V272M (0.0528%)  
p.Y234C (0.044%)  
p.C141Y (0.0484%)  
p.Q331\* (0.0484%)  
p.E286K (0.0484%)  
p.W146\* (0.0418%)  
p.C242Afs\*5 (0.0462%)  
p.C176F (0.0484%)  
p.V157F (0.0462%)  
p.R249S (0.0462%)  
p.Y107\* (0.0462%)  
p.R209Kfs\*6 (0.0396%)  
p.R273L (0.0374%)  
p.R280T (0.044%)  
p.K132N (0.0418%)  
p.G266R (0.0418%)  
p.G245D (0.0418%)  
p.C238F (0.033%)  
p.P278S (0.0396%)  
p.K132R (0.033%)  
p.V173M (0.0374%)  
p.P278L (0.033%)  
p.E294\* (0.033%)  
p.R110P (0.0352%)  
p.P151S (0.0286%)  
p.Q165\* (0.0308%)  
p.R342P (0.0308%)  
p.Q136\* (0.033%)  
p.W91\* (0.0286%)  
p.G245V (0.0286%)  
p.C242Y (0.0308%)  
p.S241C (0.0308%)  
p.H179Q (0.0308%)  
p.A159V (0.0264%)  
p.Q317\* (0.022%)  
p.P278T (0.0264%)  
p.H193Y (0.0264%)  
p.R110Vfs\*13 (0.0198%)  
p.D281H (0.0242%)  
p.W53\* (0.022%)  
p.C275F (0.0264%)  
p.Y205C (0.0264%)  
p.E204\* (0.0264%)  
p.N239D (0.0264%)  
p.R342Efs\*3 (0.0264%)  
p.D281E (0.0242%)  
p.S183\* (0.022%)  
p.R156P (0.022%)  
p.K132E (0.0242%)  
p.C135W (0.0198%)  
p.A138P (0.0242%)  
p.P278R (0.022%)  
p.S127F (0.0198%)  
p.F270L (0.0198%)  
p.V173L (0.022%)  
p.E298\* (0.022%)  
p.C277F (0.022%)  
p.C242F (0.022%)  
p.Y220H (0.022%)  
p.E198\* (0.022%)  
p.D208V (0.022%)  
p.R280I (0.0198%)  
p.I255del (0.0176%)  
p.Y220\* (0.0176%)  
p.V274G (0.0176%)  
p.E336\* (0.0198%)  
p.H193L (0.0198%)  
p.C275Y (0.0198%)  
p.E258K (0.0198%)  
p.C275R (0.0198%)  
p.C176W (0.0154%)  
p.I251Sfs\*94 (0.0176%)  
p.C176Y (0.0176%)  
p.F113V (0.0154%)  
p.E286\* (0.0154%)  
p.A138V (0.0176%)  
p.E271\* (0.0176%)  
p.C176R (0.0176%)  
p.P177\_C182del (0.0176%)  
p.K320\* (0.0176%)  
p.I195N (0.0176%)  
p.R249W (0.0176%)  
p.P151A (0.0176%)  
p.T211= (0.0176%)  
p.R283C (0.0176%)  
p.L194P (0.0154%)  
p.Q375\* (0.0154%)  
p.E171\* (0.0154%)  
p.C229Yfs\*10 (0.0132%)  
p.S241Y (0.0154%)  
p.G108Vfs\*15 (0.0154%)  
p.C135Afs\*35 (0.0154%)  
p.M246I (0.0154%)  
p.V157D (0.0154%)  
p.Y220S (0.0154%)  
p.R280G (0.0154%)  
p.S127P (0.0154%)  
p.Q167\* (0.0154%)  
p.D281N (0.0154%)  
p.E294Sfs\*51 (0.0154%)  
p.P151H (0.0154%)  
p.V274A (0.0154%)  
p.R248L (0.0154%)  
p.F134L (0.0154%)  
p.Y327\* (0.011%)  
p.E271K (0.011%)  
p.D281G (0.011%)  
p.Q100\* (0.0132%)  
p.E56\* (0.0132%)  
p.S149Ffs\*32 (0.0132%)  
p.L111P (0.0132%)  
p.Y126C (0.0132%)  
p.V274F (0.011%)  
p.E258\* (0.0132%)  
p.G279E (0.0132%)  
p.C176\* (0.0132%)  
p.C238S (0.0132%)  
p.L344P (0.0132%)  
p.M133K (0.0132%)  
p.E339\* (0.0132%)  
p.P278A (0.0132%)  
p.F113C (0.0132%)  
p.R282G (0.0132%)  
p.T253P (0.0132%)  
p.E287\* (0.0132%)  
p.F270C (0.0132%)  
p.R249G (0.0132%)  
p.R249T (0.0132%)  
p.Y163N (0.0132%)  
p.R174\* (0.0132%)  
p.E224D (0.011%)  
p.V122Dfs\*26 (0.0088%)  
p.G108\_F109del (0.0088%)  
p.T125R (0.0088%)  
p.R175G (0.0088%)  
p.P153Afs\*28 (0.0088%)  
p.G262del (0.0088%)  
p.G266V (0.011%)  
p.Y220N (0.0088%)  
p.T102Pfs\*21 (0.0088%)  
p.V73Wfs\*50 (0.0088%)  
p.G245C (0.0088%)  
p.Q104\* (0.0088%)  
p.G244D (0.0088%)  
p.R337L (0.011%)  
p.R290H (0.011%)  
p.H179P (0.011%)  
p.K139N (0.011%)  
p.P250L (0.011%)  
p.F270S (0.011%)  
p.Q144\* (0.011%)  
p.R273P (0.0088%)  
p.G199V (0.011%)  
p.R283P (0.011%)  
p.A347T (0.011%)  
p.I232S (0.011%)  
p.C135F (0.011%)  
p.S261\* (0.011%)  
p.V218del (0.011%)  
p.R174G (0.011%)  
p.I255N (0.011%)  
p.N239S (0.011%)  
p.V73Rfs\*76 (0.011%)  
p.S241Pfs\*6 (0.011%)  
p.E287D (0.011%)  
p.Q136E (0.011%)  
p.S106R (0.011%)  
p.C141W (0.011%)  
p.L130V (0.011%)  
p.?Xfs\*? (0.0066%)  
p.E349\* (0.011%)  
p.E258G (0.011%)  
p.S166\* (0.011%)  
p.P190L (0.011%)  
p.Y163\* (0.011%)  
p.C242S (0.011%)  
p.V272L (0.011%)  
p.F134C (0.011%)  
p.D61\* (0.011%)  
p.P58\_H115del (0.011%)  
p.C176S (0.011%)  
p.E343\* (0.011%)  
p.I255T (0.0088%)  
p.R213L (0.0066%)  
p.R181P (0.0066%)  
p.Y205N (0.0066%)  
p.R273S (0.0066%)  
p.K139Rfs\*31 (0.0066%)  
p.E286V (0.0088%)  
p.V172F (0.0066%)  
p.M133R (0.0066%)  
p.S241A (0.0066%)  
p.Y205H (0.0066%)  
p.D259Y (0.0088%)  
p.E271Q (0.0088%)  
p.R196Q (0.0088%)  
p.V157G (0.0088%)  
p.N239\* (0.0088%)  
p.V274L (0.0088%)  
p.R282P (0.0088%)  
p.A161T (0.0088%)  
p.F212Sfs\*3 (0.0088%)  
p.L265Tfs\*7 (0.0088%)  
p.G262V (0.0088%)  
p.N239H (0.0088%)  
p.G244Afs\*3 (0.0088%)  
p.R213Dfs\*34 (0.0088%)  
p.Y205F (0.0088%)  
p.I195F (0.0088%)  
p.Y126D (0.0088%)  
p.G108del (0.0044%)  
p.R181H (0.0088%)  
p.Y234H (0.0088%)  
p.Y220Mfs\*27 (0.0088%)  
p.M246V (0.0088%)  
p.M246L (0.0088%)  
p.F134V (0.0088%)  
p.Y234N (0.0088%)  
p.L194= (0.0066%)  
p.L257R (0.0088%)  
p.H214R (0.0088%)  
p.T253A (0.0088%)  
p.D281V (0.0066%)  
p.V216L (0.0088%)  
p.H168P (0.0088%)  
p.L265P (0.0088%)  
p.R248P (0.0088%)  
p.P152Afs\*14 (0.0088%)  
p.R249M (0.0088%)  
p.L111Ffs\*40 (0.0088%)  
p.M243I (0.0088%)  
p.R248G (0.0088%)  
p.M246T (0.0088%)  
p.G244S (0.0088%)  
p.P128S (0.0088%)  
p.T18Hfs\*26 (0.0088%)  
p.R181C (0.0088%)  
p.D184N (0.0088%)  
p.L145Q (0.0088%)  
p.V172D (0.0088%)  
p.R306Q (0.0088%)  
p.Y205S (0.0088%)  
p.E339Q (0.0088%)  
p.S227\* (0.0088%)  
p.E11K (0.0066%)  
p.R196Efs\*51 (0.0022%)  
p.E294Afs\*11 (0.0044%)  
p.R65Efs\*58 (0.0044%)  
p.A86= (0.0066%)  
p.T150Afs\*16 (0.0066%)  
p.R273G (0.0044%)  
p.L344R (0.0044%)  
p.Y234\* (0.0044%)  
p.D281\_R282del (0.0044%)  
p.E258D (0.0044%)  
p.F328Sfs\*17 (0.0044%)  
p.S241T (0.0044%)  
p.H178D (0.0066%)  
p.S303N (0.0066%)  
p.E258Q (0.0066%)  
p.R209\* (0.0044%)  
p.E180\* (0.0066%)  
p.G244V (0.0066%)  
p.G199E (0.0066%)  
p.Y107D (0.0066%)  
p.A189\_P190>X (0.0044%)  
p.P27T (0.0066%)  
p.E180Q (0.0066%)  
p.S269Rfs\*74 (0.0066%)  
p.R333Vfs\*12 (0.0066%)  
p.P75Lfs\*48 (0.0066%)  
p.K386N (0.0066%)  
p.R209I (0.0066%)  
p.R280S (0.0066%)  
p.S215I (0.0066%)  
p.S149Pfs\*21 (0.0066%)  
p.L194F (0.0066%)  
p.K120E (0.0066%)  
p.N268Pfs\*45 (0.0066%)  
p.Q167Tfs\*14 (0.0044%)  
p.G244C (0.0066%)  
p.V274D (0.0044%)  
p.A83Gfs\*65 (0.0066%)  
p.L93Ffs\*53 (0.0066%)  
p.P223L (0.0066%)  
p.N263Ifs\*82 (0.0066%)  
p.Y126\* (0.0066%)  
p.V143G (0.0066%)  
p.L330P (0.0066%)  
p.I255S (0.0066%)  
p.C229\* (0.0066%)  
p.E51\* (0.0066%)  
p.D281Y (0.0066%)  
p.V173\* (0.0066%)  
p.D184\* (0.0044%)  
p.E286G (0.0066%)  
p.P128Lfs\*42 (0.0066%)  
p.T304Ifs\*41 (0.0066%)  
p.R110Pfs\*39 (0.0066%)  
p.S215G (0.0066%)  
p.K120Qfs\*29 (0.0066%)  
p.H168L (0.0066%)  
p.Y220Lfs\*2 (0.0066%)  
p.K164E (0.0066%)  
p.I232Sfs\*15 (0.0066%)  
p.C176G (0.0066%)  
p.G108Vfs\*13 (0.0066%)  
p.R110H (0.0066%)  
p.E224\* (0.0066%)  
p.E224K (0.0066%)  
p.I255F (0.0066%)  
p.T125K (0.0066%)  
p.E11Q (0.0066%)  
p.N131del (0.0066%)  
p.V216E (0.0066%)  
p.L348Wfs\*22 (0.0066%)  
p.T155N (0.0066%)  
p.A88Sfs\*61 (0.0066%)  
p.C141R (0.0066%)  
p.L145R (0.0066%)  
p.R174Gfs\*73 (0.0066%)  
p.L265R (0.0066%)  
p.V216Gfs\*4 (0.0066%)  
p.E180K (0.0066%)  
p.C124\* (0.0066%)  
p.M246K (0.0066%)  
p.R267P (0.0066%)  
p.R202S (0.0066%)  
p.M133I (0.0066%)  
p.R213Q (0.0066%)  
p.S127Y (0.0066%)  
p.P219L (0.0044%)  
p.C242fs\*? (0.0066%)  
p.N131I (0.0066%)  
p.A161D (0.0066%)  
p.S215R (0.0066%)  
p.P177R (0.0066%)  
p.H178Tfs\*69 (0.0066%)  
p.N288Ifs\*57 (0.0066%)  
p.E204fs\*5 (0.0066%)  
p.D148Ifs\*22 (0.0066%)  
p.I195Sfs\*52 (0.0066%)  
p.P153= (0.0066%)  
p.P34L (0.0066%)  
p.P36Afs\*7 (0.0066%)  
p.K321Nfs\*24 (0.0066%)  
p.I251S (0.0066%)  
p.K139= (0.0066%)  
p.V217A (0.0066%)  
p.G199\* (0.0066%)  
p.M246R (0.0066%)  
p.S149fs\*32 (0.0066%)  
p.D208E (0.0066%)  
p.H179L (0.0066%)  
p.R342fs\*3 (0.0066%)  
p.N210S (0.0066%)  
p.R196P (0.0066%)  
p.C242\* (0.0066%)  
p.T170Rfs\*4 (0.0022%)  
p.N200Kfs\*9 (0.0022%)  
p.Q165Hfs\*5 (0.0022%)  
p.I50Nfs\*72 (0.0022%)  
p.H214\_V217delinsQ (0.0022%)  
p.E343Afs\*3 (0.0022%)  
p.S95Ifs\*54 (0.0022%)  
p.F54Sfs\*69 (0.0044%)  
p.E68Rfs\*81 (0.0022%)  
p.S241\_M246delinsL (0.0022%)  
p.L252P (0.0044%)  
p.K321\* (0.0022%)  
p.Q331H (0.0044%)  
p.K164\* (0.0022%)  
p.Y236del (0.0022%)  
p.E68\* (0.0044%)  
p.V97Lfs\*25 (0.0022%)  
p.L252Sfs\*93 (0.0044%)  
p.C182W (0.0022%)  
p.P152= (0.0044%)  
p.M169I (0.0044%)  
p.R65\* (0.0022%)  
p.H168Y (0.0044%)  
p.D184H (0.0044%)  
p.Q144Hfs\*4 (0.0022%)  
p.N29Kfs\*14 (0.0044%)  
p.E294K (0.0044%)  
p.T211Ffs\*4 (0.0044%)  
p.D7Y (0.0044%)  
p.A138Cfs\*27 (0.0044%)  
p.E204Wfs\*44 (0.0044%)  
p.Y236H (0.0044%)  
p.V143M (0.0044%)  
p.S303Afs\*42 (0.0044%)  
p.C141\_P142del (0.0044%)  
p.L93Cfs\*30 (0.0044%)  
p.G361= (0.0044%)  
p.Q100= (0.0044%)  
p.G262Wfs\*80 (0.0044%)  
p.R110Sfs\*14 (0.0044%)  
p.H214D (0.0044%)  
p.Q144P (0.0044%)  
p.A84Gfs\*65 (0.0044%)  
p.T150Hfs\*20 (0.0044%)  
p.T155= (0.0044%)  
p.Q317Sfs\*28 (0.0044%)  
p.C242= (0.0044%)  
p.V218Gfs\*30 (0.0044%)  
p.D207Gfs\*2 (0.0044%)  
p.S215T (0.0044%)  
p.G105Afs\*18 (0.0044%)  
p.L257Q (0.0044%)  
p.C242G (0.0044%)  
p.K139\* (0.0044%)  
p.L330Ffs\*15 (0.0044%)  
p.C124Wfs\*25 (0.0044%)  
p.M133Ifs\*12 (0.0044%)  
p.Q165H (0.0044%)  
p.N239\_S240del (0.0044%)  
p.E286Q (0.0044%)  
p.D41Gfs\*2 (0.0044%)  
p.Y234D (0.0044%)  
p.Q100Lfs\*42 (0.0044%)  
p.N239T (0.0044%)  
p.Q52\* (0.0044%)  
p.G108Ffs\*40 (0.0044%)  
p.R267Q (0.0044%)  
p.G105V (0.0044%)  
p.F134I (0.0044%)  
p.S46Pfs\*77 (0.0044%)  
p.R335Lfs\*10 (0.0044%)  
p.S183\_G187delinsC (0.0044%)  
p.L111Q (0.0044%)  
p.C229Vfs\*18 (0.0044%)  
p.F113P (0.0044%)  
p.N345Pfs\*17 (0.0044%)  
p.F109\_R110insL (0.0044%)  
p.C141\_Q144del (0.0022%)  
p.R267W (0.0044%)  
p.K120T (0.0044%)  
p.K132M (0.0044%)  
p.E286Kfs\*59 (0.0044%)  
p.S106Tfs\*17 (0.0044%)  
p.P142L (0.0044%)  
p.C135Sfs\*35 (0.0022%)  
p.V197E (0.0044%)  
p.P151R (0.0044%)  
p.N239Tfs\*8 (0.0044%)  
p.M246\* (0.0044%)  
p.V73Xfs\*50 (0.0044%)  
p.H168Rfs\*5 (0.0044%)  
p.T256Nfs\*8 (0.0044%)  
p.D148\_T150del (0.0044%)  
p.D259Rfs\*5 (0.0044%)  
p.P151T (0.0044%)  
p.Q52H (0.0044%)  
p.R110Wfs\*12 (0.0044%)  
p.V218E (0.0044%)  
p.R335\_F338del (0.0044%)  
p.P142H (0.0044%)  
p.L93Vfs\*55 (0.0044%)  
p.F338Sfs\*7 (0.0044%)  
p.Q167Afs\*13 (0.0044%)  
p.M246Ifs\*99 (0.0044%)  
p.D259V (0.0044%)  
p.I251N (0.0044%)  
p.R158P (0.0044%)  
p.P301Lfs\*41 (0.0044%)  
p.L188Pfs\*19 (0.0044%)  
p.R110L (0.0044%)  
p.D228\* (0.0044%)  
p.G245\_P250delinsA (0.0044%)  
p.T230\_T231delinsNA (0.0044%)  
p.K291Sfs\*51 (0.0044%)  
p.S94\* (0.0044%)  
p.P128L (0.0044%)  
p.N288Kfs\*18 (0.0044%)  
p.N268I (0.0044%)  
p.P152Xfs\*? (0.0044%)  
p.L257P (0.0044%)  
p.R280\* (0.0044%)  
p.K292Gfs\*52 (0.0044%)  
p.A159P (0.0044%)  
p.T123Ifs\*47 (0.0044%)  
p.I195S (0.0044%)  
p.I251V (0.0044%)  
p.A119Sfs\*3 (0.0044%)  
p.R158Afs\*12 (0.0044%)  
p.L265del (0.0044%)  
p.T118Gfs\*6 (0.0044%)  
p.S241del (0.0044%)  
p.E287G (0.0044%)  
p.G199R (0.0044%)  
p.Y327Lfs\*10 (0.0044%)  
p.P128del (0.0044%)  
p.L137Q (0.0044%)  
p.S315Nfs\*24 (0.0044%)  
p.C242R (0.0044%)  
p.D186H (0.0044%)  
p.E326\* (0.0044%)  
p.R209Kfs\*38 (0.0044%)  
p.F109Lfs\*36 (0.0044%)  
p.S116Afs\*34 (0.0044%)  
p.C238R (0.0044%)  
p.A347P (0.0044%)  
p.M160V (0.0044%)  
p.G108Afs\*34 (0.0044%)  
p.R342Yfs\*4 (0.0044%)  
p.H214Y (0.0044%)  
p.S106Rfs\*16 (0.0044%)  
p.I50\* (0.0044%)  
p.N131S (0.0044%)  
p.K132T (0.0044%)  
p.G112Vfs\*10 (0.0044%)  
p.L130R (0.0044%)  
p.V157Hfs\*19 (0.0022%)  
p.S90Pfs\*33 (0.0044%)  
p.Q144H (0.0044%)  
p.Q192R (0.0044%)  
p.G334V (0.0044%)  
p.G187S (0.0044%)  
p.M237V (0.0044%)  
p.G154D (0.0044%)  
p.V272Afs\*33 (0.0044%)  
p.R156Afs\*14 (0.0044%)  
p.Y205D (0.0044%)  
p.I251F (0.0044%)  
p.V143Cfs\*27 (0.0044%)  
p.L114Ffs\*35 (0.0044%)  
p.R209Ffs\*35 (0.0044%)  
p.M237K (0.0044%)  
p.P4L (0.0044%)  
p.A78V (0.0044%)  
p.Q167L (0.0044%)  
p.P250S (0.0044%)  
p.M237Cfs\*10 (0.0044%)  
p.P152S (0.0044%)  
p.P250T (0.0044%)  
p.L206F (0.0044%)  
p.E68Rfs\*55 (0.0044%)  
p.L145P (0.0044%)  
p.D228N (0.0044%)  
p.G262= (0.0044%)  
p.H193P (0.0044%)  
p.E285Gfs\*20 (0.0044%)  
p.Q38Wfs\*4 (0.0044%)  
p.R202L (0.0044%)  
p.C176Afs\*71 (0.0044%)  
p.S240R (0.0044%)  
p.T150I (0.0044%)  
p.R174W (0.0044%)  
p.C135G (0.0044%)  
p.L265Pfs\*5 (0.0044%)  
p.S313Afs\*32 (0.0044%)  
p.P301Qfs\*44 (0.0044%)  
p.V147D (0.0044%)  
p.G245del (0.0044%)  
p.L252del (0.0044%)  
p.F212S (0.0044%)  
p.L22Yfs\*22 (0.0044%)  
p.G245= (0.0044%)  
p.E56K (0.0044%)  
p.H178P (0.0044%)  
p.L265M (0.0044%)  
p.E285\* (0.0044%)  
p.L201P (0.0044%)  
p.S260Qfs\*3 (0.0044%)  
p.L201\* (0.0044%)  
p.K320N (0.0044%)  
p.C176fs\*5 (0.0044%)  
p.R110fs\*? (0.0044%)  
p.V122Hfs\*24 (0.0044%)  
p.T256P (0.0044%)  
p.M243T (0.0044%)  
p.G245A (0.0044%)  
p.P295fs\*11 (0.0044%)  
p.R267= (0.0044%)  
p.P153L (0.0044%)  
p.R156H (0.0044%)  
p.G302Rfs\*4 (0.0044%)  
p.N239\_C242del (0.0044%)  
p.R282Q (0.0044%)  
p.R379H (0.0044%)  
p.P82= (0.0044%)  
p.T256= (0.0044%)  
p.F109L (0.0022%)  
p.F270\_C275dup (0.0022%)  
p.W91Cfs\*52 (0.0022%)  
p.L111Ifs\*8 (0.0022%)  
p.D184Afs\*62 (0.0022%)  
p.T118Qfs\*5 (0.0022%)  
p.A159Gfs\*8 (0.0022%)  
p.G334\_M340del (0.0022%)  
p.K164= (0.0022%)  
p.P72A (0.0022%)  
p.R213= (0.0022%)  
p.P142Afs\*7 (0.0022%)  
p.C141Wfs\*8 (0.0022%)  
p.I251= (0.0022%)  
p.H297Sfs\*10 (0.0022%)  
p.A78S (0.0022%)  
p.R335Afs\*8 (0.0022%)  
p.Q5H (0.0022%)  
p.G302R (0.0022%)  
p.P250H (0.0022%)  
p.I162\_Y163delinsN (0.0022%)  
p.D259N (0.0022%)  
p.H193Qfs\*48 (0.0022%)  
p.E285Rfs\*54 (0.0022%)  
p.S20L (0.0022%)  
p.Q52Lfs\*73 (0.0022%)  
p.P153S (0.0022%)  
p.E286D (0.0022%)  
p.C124F (0.0022%)  
p.T125= (0.0022%)  
p.Q165Afs\*6 (0.0022%)  
p.E28K (0.0022%)  
p.P92H (0.0022%)  
p.L289F (0.0022%)  
p.F341S (0.0022%)  
p.E221\* (0.0022%)  
p.P152T (0.0022%)  
p.C135R (0.0022%)  
p.T118Dfs\*31 (0.0022%)  
p.D208G (0.0022%)  
p.G199T (0.0022%)  
p.V157E (0.0022%)  
p.S314\_K320delins\* (0.0022%)  
p.Q136P (0.0022%)  
p.Q375K (0.0022%)  
p.P58Qfs\*65 (0.0022%)  
p.I332Tfs\*13 (0.0022%)  
p.R174Sfs\*73 (0.0022%)  
p.E271Gfs\*74 (0.0022%)  
p.L35Pfs\*10 (0.0022%)  
p.T211Lfs\*36 (0.0022%)  
p.P27S (0.0022%)  
p.G112Afs\*11 (0.0022%)  
p.H178Pfs\*2 (0.0022%)  
p.L257Wfs\*88 (0.0022%)  
p.L111Xfs\*37 (0.0022%)  
p.P98Xfs\*25 (0.0022%)  
p.L114\* (0.0022%)  
p.L299Afs\*7 (0.0022%)  
p.A86Cfs\*63 (0.0022%)  
p.T304A (0.0022%)  
p.G108Afs\*39 (0.0022%)  
p.I162Tfs\*8 (0.0022%)  
p.T123Dfs\*26 (0.0022%)  
p.V157Afs\*24 (0.0022%)  
p.A138Pfs\*30 (0.0022%)  
p.T155P (0.0022%)  
p.N247I (0.0022%)  
p.P153\_G154del (0.0022%)  
p.Y126N (0.0022%)  
p.R267G (0.0022%)  
p.E171Lfs\*2 (0.0022%)  
p.E287= (0.0022%)  
p.R196G (0.0022%)  
p.R158G (0.0022%)  
p.I162Wfs\*10 (0.0022%)  
p.D281Gfs\*66 (0.0022%)  
p.D391\* (0.0022%)  
p.T125Sfs\*45 (0.0022%)  
p.C277Lfs\*67 (0.0022%)  
p.G279Pfs\*24 (0.0022%)  
p.I254N (0.0022%)  
p.S261Vfs\*84 (0.0022%)  
p.H214Lfs\*33 (0.0022%)  
p.E339Rfs\*6 (0.0022%)  
p.R273Cfs\*32 (0.0022%)  
p.A76Vfs\*55 (0.0022%)  
p.D228Vfs\*18 (0.0022%)  
p.M340\_E346dup (0.0022%)  
p.P77Cfs\*73 (0.0022%)  
p.T125Ifs\*47 (0.0022%)  
p.V143Gfs\*2 (0.0022%)  
p.R175= (0.0022%)  
p.A347\* (0.0022%)  
p.A276= (0.0022%)  
p.R335Afs\*2 (0.0022%)  
p.F113\_H115del (0.0022%)  
p.Y236\* (0.0022%)  
p.V173G (0.0022%)  
p.L206Yfs\*4 (0.0022%)  
p.E336Sfs\*5 (0.0022%)  
p.S183Rfs\*2 (0.0022%)  
p.D207Ffs\*3 (0.0022%)  
p.V274Cfs\*32 (0.0022%)  
p.C238\* (0.0022%)  
p.P85Vfs\*35 (0.0022%)  
p.C124\_T125delinsW (0.0022%)  
p.N288Ifs\*18 (0.0022%)  
p.D186Gfs\*61 (0.0022%)  
p.R156del (0.0022%)  
p.P71Gfs\*75 (0.0022%)  
p.F270I (0.0022%)  
p.E286A (0.0022%)  
p.N288H (0.0022%)  
p.F109Nfs\*15 (0.0022%)  
p.E294Vfs\*12 (0.0022%)  
p.E294Q (0.0022%)  
p.V147Lfs\*23 (0.0022%)  
p.N131Tfs\*39 (0.0022%)  
p.P295L (0.0022%)  
p.R213Xfs\*? (0.0022%)  
p.N268\* (0.0022%)  
p.F338Lfs\*4 (0.0022%)  
p.E258V (0.0022%)  
p.P87Hfs\*37 (0.0022%)  
p.M133Ifs\*36 (0.0022%)  
p.L111Nfs\*14 (0.0022%)  
p.R110del (0.0022%)  
p.G187Vfs\*60 (0.0022%)  
p.G154Pfs\*25 (0.0022%)  
p.G112Afs\*37 (0.0022%)  
p.K351\* (0.0022%)  
p.S260F (0.0022%)  
p.N247F (0.0022%)  
p.K382Nfs\*40 (0.0022%)  
p.L130\_A138dup (0.0022%)  
p.R110Qfs\*15 (0.0022%)  
p.T377P (0.0022%)  
p.P142Gfs\*24 (0.0022%)  
p.T125M (0.0022%)  
p.C229Xfs\*10 (0.0022%)  
p.P190del (0.0022%)  
p.S94Pfs\*24 (0.0022%)  
p.V197G (0.0022%)  
p.A138\_K139insSTRCFANWP (0.0022%)  
p.F270V (0.0022%)  
p.M160Wfs\*10 (0.0022%)  
p.I254S (0.0022%)  
p.S269= (0.0022%)  
p.T125P (0.0022%)  
p.Q136R (0.0022%)  
p.N235Tfs\*12 (0.0022%)  
p.F109S (0.0022%)  
p.K139\_S149del (0.0022%)  
p.F328Lfs\*17 (0.0022%)  
p.T253Hfs\*11 (0.0022%)  
p.Y163Qfs\*17 (0.0022%)  
p.P191Sfs\*18 (0.0022%)  
p.H115Ifs\*8 (0.0022%)  
p.S106Qfs\*43 (0.0022%)  
p.I255Nfs\*9 (0.0022%)  
p.Q167Hfs\*3 (0.0022%)  
p.V274Afs\*33 (0.0022%)  
p.H115Qfs\*4 (0.0022%)  
p.L308Afs\*28 (0.0022%)  
p.I162\_Q165delinsK (0.0022%)  
p.T81Pfs\*49 (0.0022%)  
p.P92Hfs\*57 (0.0022%)  
p.H178Pfs\*3 (0.0022%)  
p.G293Efs\*3 (0.0022%)  
p.E204Sfs\*43 (0.0022%)  
p.P64Xfs\*85 (0.0022%)  
p.K319Nfs\*18 (0.0022%)  
p.P301Xfs\*44 (0.0022%)  
p.P322Hfs\*23 (0.0022%)  
p.E258A (0.0022%)  
p.F341V (0.0022%)  
p.E286Hfs\*22 (0.0022%)  
p.L43\* (0.0022%)  
p.P219H (0.0022%)  
p.H214Qfs\*7 (0.0022%)  
p.A276P (0.0022%)  
p.T211P (0.0022%)  
p.N30Tfs\*14 (0.0022%)  
p.P190Lfs\*57 (0.0022%)  
p.D228G (0.0022%)  
p.G187D (0.0022%)  
p.F134\_Q136del (0.0022%)  
p.N247\_R248del (0.0022%)  
p.\*394Tfs\*76 (0.0022%)  
p.E326Rfs\*11 (0.0022%)  
p.D41fs\*2 (0.0022%)  
p.F212V (0.0022%)  
p.L201Ffs\*8 (0.0022%)  
p.V173Xfs\*7 (0.0022%)  
p.H296R (0.0022%)  
p.N268H (0.0022%)  
p.C277Y (0.0022%)  
p.S96Cfs\*52 (0.0022%)  
p.G199= (0.0022%)  
p.C242Hfs\*18 (0.0022%)  
p.N131Xfs\*27 (0.0022%)  
p.L194H (0.0022%)  
p.S127C (0.0022%)  
p.K132Q (0.0022%)  
p.Q144Pfs\*5 (0.0022%)  
p.R110Lfs\*13 (0.0022%)  
p.E339Vfs\*10 (0.0022%)  
p.C277= (0.0022%)  
p.P92Vfs\*55 (0.0022%)  
p.L145Afs\*4 (0.0022%)  
p.V147F (0.0022%)  
p.L130F (0.0022%)  
p.D148H (0.0022%)  
p.S127T (0.0022%)  
p.R110Pfs\*14 (0.0022%)  
p.S240G (0.0022%)  
p.P301Q (0.0022%)  
p.L194fs\*15 (0.0022%)  
p.F212I (0.0022%)  
p.Q136Nfs\*34 (0.0022%)  
p.C275= (0.0022%)  
p.S215C (0.0022%)  
p.I162F (0.0022%)  
p.P72Gfs\*51 (0.0022%)  
p.R342Lfs\*4 (0.0022%)  
p.S106Gfs\*44 (0.0022%)  
p.Y163= (0.0022%)  
p.A70T (0.0022%)  
p.T329Hfs\*8 (0.0022%)  
p.P71A (0.0022%)  
p.P223Sfs\*26 (0.0022%)  
p.N345\* (0.0022%)  
p.S94Ffs\*28 (0.0022%)  
p.F109\_R110del (0.0022%)  
p.L130P (0.0022%)  
p.G108\_F109insW (0.0022%)  
p.A74Hfs\*47 (0.0022%)  
p.P250Sfs\*14 (0.0022%)  
p.G325\* (0.0022%)  
p.S94P (0.0022%)  
p.P222Sfs\*26 (0.0022%)  
p.V197L (0.0022%)  
p.T304Lfs\*3 (0.0022%)  
p.E204Gfs\*46 (0.0022%)  
p.G245R (0.0022%)  
p.A129Xfs\*24 (0.0022%)  
p.N311Tfs\*34 (0.0022%)  
p.E198Xfs\*? (0.0022%)  
p.E298D (0.0022%)  
p.G302fs\*? (0.0022%)  
p.L257Hfs\*89 (0.0022%)  
p.V274I (0.0022%)  
p.A276T (0.0022%)  
p.M133\_K139del (0.0022%)  
p.K132Cfs\*37 (0.0022%)  
p.S96Lfs\*27 (0.0022%)  
p.A189V (0.0022%)  
p.E298= (0.0022%)  
p.Y236N (0.0022%)  
p.C277Vfs\*68 (0.0022%)  
p.S227Xfs\*? (0.0022%)  
p.V143\_S149del (0.0022%)  
p.A161Pfs\*9 (0.0022%)  
p.R196Pfs\*13 (0.0022%)  
p.T81Xfs\*? (0.0022%)  
p.S215Mfs\*32 (0.0022%)  
p.S185Tfs\*62 (0.0022%)  
p.H214Cfs\*29 (0.0022%)  
p.M40Ifs\*3 (0.0022%)  
p.F113S (0.0022%)  
p.L111R (0.0022%)  
p.T170= (0.0022%)  
p.F270Xfs\*? (0.0022%)  
p.S127del (0.0022%)  
p.Q192Pfs\*17 (0.0022%)  
p.P142T (0.0022%)  
p.H168Qfs\*2 (0.0022%)  
p.K321= (0.0022%)  
p.V143= (0.0022%)  
p.P152L (0.0022%)  
p.G154Hfs\*21 (0.0022%)  
p.S227Hfs\*9 (0.0022%)  
p.H193N (0.0022%)  
p.S99Rfs\*23 (0.0022%)  
p.Y220fs\*2 (0.0022%)  
p.P152Afs\*28 (0.0022%)  
p.F270Lfs\*72 (0.0022%)  
p.E271Cfs\*30 (0.0022%)  
p.E56Kfs\*67 (0.0022%)  
p.N263D (0.0022%)  
p.F385Xfs\*37 (0.0022%)  
p.K139Q (0.0022%)  
p.Y205\* (0.0022%)  
p.S99X\*44 (0.0022%)  
p.R283Xfs\*? (0.0022%)  
p.R249= (0.0022%)  
p.T230S (0.0022%)  
p.P250\_I251insX (0.0022%)  
p.P301\_S303del (0.0022%)  
p.Q144Sfs\*26 (0.0022%)  
p.R174K (0.0022%)  
p.L330R (0.0022%)  
p.G325E (0.0022%)  
p.H193D (0.0022%)  
p.C182Afs\*65 (0.0022%)  
p.N200Ifs\*47 (0.0022%)  
p.V216Gfs\*5 (0.0022%)  
p.C124fs\*48 (0.0022%)  
p.P60Qfs\*63 (0.0022%)  
p.W91Cfs\*57 (0.0022%)  
p.P390Lfs\*32 (0.0022%)  
p.S185Afs\*62 (0.0022%)  
p.C277fs\*29 (0.0022%)  
p.V173Tfs\*69 (0.0022%)  
p.N131Cfs\*27 (0.0022%)  
p.Y236fs\*5 (0.0022%)  
p.S269Rfs\*21 (0.0022%)  
p.C135fs\*36 (0.0022%)  
p.C176\_P177del (0.0022%)  
p.C275W (0.0022%)  
p.I332Sfs\*13 (0.0022%)  
p.H179Qfs\*64 (0.0022%)  
p.Y163D (0.0022%)  
p.R196= (0.0022%)  
p.E285\_N288del (0.0022%)  
p.R283Sfs\*56 (0.0022%)  
p.S106\_Y107del (0.0022%)  
p.R158\_A159insXX (0.0022%)  
p.Y234R (0.0022%)  
p.R249\_I251del (0.0022%)  
p.T125fs\*24 (0.0022%)  
p.K164N (0.0022%)  
p.G226V (0.0022%)  
p.L114Cfs\*30 (0.0022%)  
p.S99Ffs\*55 (0.0022%)  
p.L264V (0.0022%)  
p.V203Wfs\*44 (0.0022%)  
p.V272A (0.0022%)  
p.M133Cfs\*37 (0.0022%)  
p.N29Tfs\*15 (0.0022%)  
p.P222= (0.0022%)  
p.G302Hfs\*2 (0.0022%)  
p.V122Afs\*46 (0.0022%)  
p.F54fs\*3 (0.0022%)  
p.L257= (0.0022%)  
p.M340Tfs\*7 (0.0022%)  
p.R181L (0.0022%)  
p.C229Y (0.0022%)  
p.T256S (0.0022%)  
p.E171K (0.0022%)  
p.N239fs\*26 (0.0022%)  
p.F134\_T140delinsS (0.0022%)  
p.I251Hfs\*11 (0.0022%)  
p.S95\_G108del (0.0022%)  
p.V272fs\*74 (0.0022%)  
p.K139R (0.0022%)  
p.L308Pfs\*15 (0.0022%)  
p.A83Pfs\*39 (0.0022%)  
p.Y220Rfs\*25 (0.0022%)  
p.R158H (0.0022%)  
p.D186= (0.0022%)  
p.C141\* (0.0022%)  
p.T155Pfs\*25 (0.0022%)  
p.G266Dfs\*79 (0.0022%)  
p.C275\_A276delinsS (0.0022%)  
p.L137fs\*12 (0.0022%)  
p.S260= (0.0022%)  
p.Y205Tfs\*37 (0.0022%)  
p.S121Cfs\*27 (0.0022%)  
p.V157fs\*25 (0.0022%)  
p.A159S (0.0022%)  
p.P72Lfs\*48 (0.0022%)  
p.I232T (0.0022%)  
p.M66Nfs\*83 (0.0022%)  
p.T253del (0.0022%)  
p.S241P (0.0022%)  
p.Y103\* (0.0022%)  
p.H168= (0.0022%)  
p.A138= (0.0022%)  
p.Y126\_K132del (0.0022%)  
p.H179D (0.0022%)  
p.P80Lfs\*43 (0.0022%)  
p.S240fs\*26 (0.0022%)  
p.S240I (0.0022%)  
p.T231S (0.0022%)  
p.P152\_P153del (0.0022%)  
p.R202Xfs\*? (0.0022%)  
p.A161Sfs\*8 (0.0022%)  
p.G59Qfs\*84 (0.0022%)  
p.A129\_L130insXX (0.0022%)  
p.Q317Afs\*19 (0.0022%)  
p.A276V (0.0022%)  
p.S185R (0.0022%)  
p.F270Y (0.0022%)  
p.G187C (0.0022%)  
p.D228Lfs\*11 (0.0022%)  
p.T230\_Y234del (0.0022%)  
p.F338I (0.0022%)  
p.T230N (0.0022%)  
p.G244= (0.0022%)  
p.Y103Vfs\*15 (0.0022%)  
p.T140Cfs\*6 (0.0022%)  
p.E68Gfs\*76 (0.0022%)  
p.R267Efs\*65 (0.0022%)  
p.G293= (0.0022%)  
p.C141Afs\*5 (0.0022%)  
p.S392L (0.0022%)  
p.R156G (0.0022%)  
p.C242W (0.0022%)  
p.DGEQLGLERRQGWLPRVPRPLIPH\*LLLGLAPP186delext\*? (0.0022%)  
p.F109Sfs\*14 (0.0022%)  
p.Q317Xfs\*? (0.0022%)  
p.D207G (0.0022%)  
p.H233Lfs\*6 (0.0022%)  
p.T230Pfs\*17 (0.0022%)  
p.R175fs\*6 (0.0022%)  
p.L137\_W146del (0.0022%)  
p.V272del (0.0022%)  
p.D148del (0.0022%)  
p.T304Lfs\*41 (0.0022%)  
p.P191\_E198delinsQ (0.0022%)  
p.V147G (0.0022%)  
p.I162= (0.0022%)  
p.T211\_S215del (0.0022%)  
p.Y234\_N235insX (0.0022%)  
p.N235del (0.0022%)  
p.G266\* (0.0022%)  
p.Y205fs\*43 (0.0022%)  
p.Q52Nfs\*71 (0.0022%)  
p.H178fs\*3 (0.0022%)  
p.Q144Ffs\*32 (0.0022%)  
p.P85Cfs\*63 (0.0022%)  
p.Q167Hfs\*12 (0.0022%)  
p.V274\_P278del (0.0022%)  
p.C242\_M246delinsL (0.0022%)  
p.K291N (0.0022%)  
p.T284P (0.0022%)  
p.I232F (0.0022%)  
p.R174\_H179del (0.0022%)  
p.K164Sfs\*3 (0.0022%)  
p.Q165fs\*16 (0.0022%)  
p.K164M (0.0022%)  
p.A129T (0.0022%)  
p.P219= (0.0022%)  
p.V143A (0.0022%)  
p.G112Lfs\*36 (0.0022%)  
p.V143E (0.0022%)  
p.D228H (0.0022%)  
p.C275G (0.0022%)  
p.L299Hfs\*2 (0.0022%)  
p.C229G (0.0022%)  
p.H233L (0.0022%)  
p.E62\* (0.0022%)  
p.R202P (0.0022%)  
p.P301A (0.0022%)  
p.N235S (0.0022%)  
p.I254T (0.0022%)  
p.T256Kfs\*90 (0.0022%)  
p.V225fs\*24 (0.0022%)  
p.V172Lfs\*2 (0.0022%)  
p.W146Ifs\*22 (0.0022%)  
p.Q144del (0.0022%)  
p.G279\_R280del (0.0022%)  
p.A138T (0.0022%)  
p.I232= (0.0022%)  
p.E298Q (0.0022%)  
p.V197= (0.0022%)  
p.T125Xfs\*29 (0.0022%)  
p.R342\_N345del (0.0022%)  
p.Q167K (0.0022%)  
p.P128Qfs\*17 (0.0022%)  
p.P177\_E180del (0.0022%)  
p.H179N (0.0022%)  
p.V157fs\*24 (0.0022%)  
p.M243L (0.0022%)  
p.L330Ffs\*18 (0.0022%)  
p.V172fs\*9 (0.0022%)  
p.H168Pfs\*2 (0.0022%)  
p.S99Pfs\*24 (0.0022%)  
p.V157Rfs\*22 (0.0022%)  
p.R175\_H178>X (0.0022%)  
p.R283Afs\*62 (0.0022%)  
p.P219\_E221del (0.0022%)  
p.P153Hfs\*26 (0.0022%)  
p.N210T (0.0022%)  
p.Y234Lfs\*4 (0.0022%)  
p.E224G (0.0022%)  
p.T155I (0.0022%)  
p.P47L (0.0022%)  
p.S94Hfs\*29 (0.0022%)  
p.R290Afs\*55 (0.0022%)  
p.E171V (0.0022%)  
p.M169V (0.0022%)  
p.K120Q (0.0022%)  
p.Q354R (0.0022%)  
p.G244Efs\*17 (0.0022%)  
p.K292= (0.0022%)  
p.R283= (0.0022%)  
p.P191\_Q192del (0.0022%)  
p.T256fs\*8 (0.0022%)  
p.V172I (0.0022%)  
p.N247= (0.0022%)  
p.Y236\_M237insXX (0.0022%)  
p.S240Vfs\*7 (0.0022%)  
p.Y163S (0.0022%)  
p.L252\_I254del (0.0022%)  
p.R202H (0.0022%)  
p.V147I (0.0022%)  
p.G245Afs\*2 (0.0022%)  
p.T123Hfs\*24 (0.0022%)  
p.H214= (0.0022%)  
p.S183L (0.0022%)  
p.Y163Tfs\*14 (0.0022%)  
p.Q167R (0.0022%)  
p.V225Ffs\*23 (0.0022%)  
p.S303fs\*? (0.0022%)  
p.V157\_I162del (0.0022%)  
p.P250A (0.0022%)  
p.Q100Sfs\*54 (0.0022%)  
p.C277W (0.0022%)  
p.G245Efs\*17 (0.0022%)  
p.E68fs\*81 (0.0022%)  
p.A159= (0.0022%)  
p.P128= (0.0022%)  
p.K305fs\*32 (0.0022%)  
p.Y126Qfs\*18 (0.0022%)  
p.C242Xfs\*5 (0.0022%)  
p.L130fs\*19 (0.0022%)  
p.V216fs\*32 (0.0022%)  
p.S149Pfs\*17 (0.0022%)  
p.T253Qfs\*3 (0.0022%)  
p.R175Afs\*72 (0.0022%)  
p.S95Lfs\*28 (0.0022%)  
p.P89fs\*60 (0.0022%)  
p.C141fs\*30 (0.0022%)  
p.I251fs\*96 (0.0022%)  
p.F109\_R110insXX (0.0022%)  
p.L206Wfs\*41 (0.0022%)  
p.G244R (0.0022%)  
p.A189\_Q192delinsE (0.0022%)  
p.T230Hfs\*9 (0.0022%)  
p.N288Qfs\*15 (0.0022%)  
p.L265\_K305del (0.0022%)  
p.M44Cfs\*79 (0.0022%)  
p.H296N (0.0022%)  
p.R249\_P250del (0.0022%)  
p.N29\_N30delinsKD (0.0022%)  
p.R110\_F113del (0.0022%)  
p.E271G (0.0022%)  
p.N247\_R248delinsIP (0.0022%)  
p.E287K (0.0022%)  
p.T155Pfs\*15 (0.0022%)  
p.W146R (0.0022%)  
p.R174\_C176del (0.0022%)  
p.A276D (0.0022%)  
p.P190S (0.0022%)  
p.R175S (0.0022%)  
p.M169fs\*2 (0.0022%)  
p.T284Rfs\*21 (0.0022%)  
p.I254V (0.0022%)  
p.C229R (0.0022%)  
p.P278H (0.0022%)  
p.A189S (0.0022%)  
p.H168R (0.0022%)  
p.A161= (0.0022%)  
p.Y236fs\*4 (0.0022%)  
p.P222T (0.0022%)  
p.D259Tfs\*86 (0.0022%)  
p.R209fs\*7 (0.0022%)  
p.R158L (0.0022%)  
p.H168Rfs\*4 (0.0022%)  
p.S96fs\*53 (0.0022%)  
p.K139Afs\*4 (0.0022%)  
p.E171Rfs\*3 (0.0022%)  
p.V272G (0.0022%)  
p.Q167Rfs\*3 (0.0022%)  
p.G334Vfs\*12 (0.0022%)  
p.Y107Sfs\*38 (0.0022%)  
p.R816Q (0.0066%)  
p.S645C (0.0066%)  
p.Q400\* (0.0066%)  
p.L4450= (0.0044%)  
p.D2178N (0.0044%)  
p.D2944A (0.0044%)  
p.T1673M (0.0044%)  
p.R2308G (0.0044%)  
p.Q3874\* (0.0044%)  
p.L38F (0.0044%)  
p.E2807\* (0.0044%)  
p.V2456I (0.0044%)  
p.E589= (0.0044%)  
p.Q2677= (0.0022%)  
p.D2068N (0.0022%)  
p.D3491N (0.0022%)  
p.K89T (0.0022%)  
p.S2540= (0.0022%)  
p.L4235F (0.0022%)  
p.D2393E (0.0022%)  
p.H3286R (0.0022%)  
p.Q3834\* (0.0022%)  
p.S2046= (0.0022%)  
p.C3456Y (0.0022%)  
p.C2665S (0.0022%)  
p.W3103C (0.0022%)  
p.S989C (0.0022%)  
p.G1808R (0.0022%)  
p.S2343T (0.0022%)  
p.V3979G (0.0022%)  
p.R3064\* (0.0022%)  
p.D1036H (0.0022%)  
p.D4101N (0.0022%)  
p.N2900Mfs\*28 (0.0022%)  
p.A1912T (0.0022%)  
p.I3566M (0.0022%)  
p.N4035D (0.0022%)  
p.R2443H (0.0022%)  
p.C2020= (0.0022%)  
p.V2947= (0.0022%)  
p.I75= (0.0022%)  
p.K2352E (0.0022%)  
p.L3714F (0.0022%)  
p.E4222\* (0.0022%)  
p.G4136R (0.0022%)  
p.A2354V (0.0022%)  
p.S2973F (0.0022%)  
p.I1947M (0.0022%)  
p.T2119M (0.0022%)  
p.P4538= (0.0022%)  
p.F1613= (0.0022%)  
p.G2179E (0.0022%)  
p.S633C (0.0022%)  
p.G2016\* (0.0022%)  
p.P519S (0.0022%)  
p.L1205= (0.0022%)  
p.E2998K (0.0022%)  
p.H112Y (0.0022%)  
p.E2622K (0.0022%)  
p.G1286R (0.0022%)  
p.P1164L (0.0022%)  
p.G996W (0.0022%)  
p.V1440L (0.0022%)  
p.L2183= (0.0022%)  
p.D2260N (0.0022%)  
p.V4330L (0.0022%)  
p.A821= (0.0022%)  
p.A225V (0.0022%)  
p.R2553Q (0.0022%)  
p.R1017S (0.0022%)  
p.D3002E (0.0022%)  
p.T966N (0.0022%)  
p.I719F (0.0022%)  
p.G1864= (0.0022%)  
p.L2009= (0.0022%)  
p.P3139T (0.0022%)  
p.F2633= (0.0022%)  
p.I4123V (0.0022%)  
p.R2777\* (0.0022%)  
p.V2638= (0.0022%)  
p.T1714K (0.0022%)  
p.S1985P (0.0022%)  
p.E2375= (0.0022%)  
p.Q1524= (0.0022%)  
p.R2166T (0.0022%)  
p.T1416N (0.0022%)  
p.Q4113H (0.0022%)  
p.G1055R (0.0022%)  
p.P1592R (0.0022%)  
p.S4093P (0.0022%)  
p.Y1350S (0.0022%)  
p.S3586R (0.0022%)  
p.V4148A (0.0022%)  
p.A960V (0.0022%)  
p.Q583= (0.0022%)  
p.W1709C (0.0022%)  
p.R4573Q (0.0022%)  
p.D157H (0.0022%)  
p.R1661C (0.0022%)  
p.L1881F (0.0022%)  
p.A1113S (0.0022%)  
p.R636Q (0.0022%)  
p.D3747H (0.0022%)  
p.D1807= (0.0022%)  
p.S3586T (0.0022%)  
p.D3472N (0.0022%)  
p.E3678K (0.0022%)  
p.K1733T (0.0022%)  
p.G3945R (0.0022%)  
p.V4078= (0.0022%)  
p.S3770G (0.0022%)  
p.Q824\* (0.0022%)  
p.T1341I (0.0022%)  
p.R3323H (0.0022%)  
p.Q23\* (0.1608%)  
p.Q610\* (0.0264%)  
p.Q346\* (0.0264%)  
p.Q255\* (0.0198%)  
p.R63\* (0.0242%)  
p.I650Yfs\*13 (0.0242%)  
p.P127Afs\*41 (0.022%)  
p.Q351\* (0.0176%)  
p.Q264\* (0.022%)  
p.R598\* (0.0198%)  
p.S9\* (0.0154%)  
p.T115Nfs\*53 (0.0154%)  
p.Q641\* (0.0176%)  
p.L742Tfs\*6 (0.0154%)  
p.Q706\* (0.0176%)  
p.Q449\* (0.0176%)  
p.E243K (0.0132%)  
p.R335\* (0.0154%)  
p.W4\* (0.0154%)  
p.R74\* (0.0154%)  
p.Y523\* (0.0154%)  
p.L355\* (0.0132%)  
p.Q129\* (0.0132%)  
p.A634V (0.0132%)  
p.E273K (0.0132%)  
p.E310\* (0.0132%)  
p.V392Efs\*5 (0.0132%)  
p.Y827\* (0.0132%)  
p.Y190Lfs\*9 (0.0132%)  
p.E208\* (0.0132%)  
p.T263Gfs\*3 (0.0132%)  
p.P620Lfs\*11 (0.0088%)  
p.P708Lfs\*14 (0.011%)  
p.P42A (0.011%)  
p.Q136Pfs\*32 (0.011%)  
p.W20\* (0.011%)  
p.E463\* (0.011%)  
p.Y508\* (0.0088%)  
p.R108\* (0.011%)  
p.E165Q (0.011%)  
p.Y68\* (0.0066%)  
p.L731Ffs\*39 (0.0088%)  
p.Q511\* (0.0066%)  
p.R492Sfs\*44 (0.0088%)  
p.V475Gfs\*6 (0.0088%)  
p.A617Gfs\*46 (0.0088%)  
p.Q383\* (0.0088%)  
p.D805Cfs\*5 (0.0088%)  
p.E497\* (0.0088%)  
p.E745Rfs\*3 (0.0088%)  
p.R150\* (0.0088%)  
p.P159Lfs\*56 (0.0088%)  
p.E841Kfs\*5 (0.0088%)  
p.E47\* (0.0088%)  
p.T199Nfs\*10 (0.0088%)  
p.T211Qfs\*4 (0.0088%)  
p.Y228\* (0.0088%)  
p.K653\* (0.0088%)  
p.I206Vfs\*6 (0.0088%)  
p.T287\_A289del (0.0088%)  
p.V82Gfs\*13 (0.0088%)  
p.E218Afs\*4 (0.0044%)  
p.E261\* (0.0044%)  
p.L731Gfs\*38 (0.0066%)  
p.W526\* (0.0066%)  
p.Y302\* (0.0044%)  
p.W103\* (0.0066%)  
p.A592Kfs\*9 (0.0066%)  
p.C603Lfs\*2 (0.0066%)  
p.P159\_F171>L (0.0066%)  
p.H233Qfs\*11 (0.0066%)  
p.N751Kfs\*19 (0.0066%)  
p.D198Efs\*18 (0.0066%)  
p.D402H (0.0066%)  
p.G500Wfs\*37 (0.0066%)  
p.N181Tfs\*34 (0.0066%)  
p.V384Gfs\*3 (0.0066%)  
p.E445\* (0.0066%)  
p.Q16\* (0.0066%)  
p.T515\_F516ins\* (0.0066%)  
p.I158Yfs\*10 (0.0066%)  
p.Q195\* (0.0066%)  
p.V157Gfs\*11 (0.0066%)  
p.R224C (0.0066%)  
p.G81Vfs\*2 (0.0066%)  
p.A719Gfs\*29 (0.0066%)  
p.E806K (0.0066%)  
p.R74Dfs\*9 (0.0066%)  
p.E497Rfs\*25 (0.0066%)  
p.D805Mfs\*11 (0.0066%)  
p.D400N (0.0066%)  
p.V252Efs\*30 (0.0066%)  
p.R63Q (0.0066%)  
p.G278\* (0.0066%)  
p.I135Nfs\*33 (0.0066%)  
p.G324Dfs\*24 (0.0066%)  
p.V204Lfs\*4 (0.0066%)  
p.E26\* (0.0066%)  
p.G62Rfs\*32 (0.0066%)  
p.L582Afs\*5 (0.0066%)  
p.N613Kfs\*4 (0.0066%)  
p.E247\* (0.0066%)  
p.H453Rfs\*10 (0.0066%)  
p.E410Gfs\*9 (0.0066%)  
p.F423Lfs\*8 (0.0066%)  
p.L658\* (0.0066%)  
p.A289Gfs\*3 (0.0066%)  
p.P799S (0.0066%)  
p.A592T (0.0066%)  
p.E386\* (0.0066%)  
p.T399Mfs\*17 (0.0066%)  
p.E504\* (0.0066%)  
p.L630Tfs\*33 (0.0022%)  
p.N405Qfs\*14 (0.0022%)  
p.E26Gfs\*8 (0.0022%)  
p.N166Kfs\*2 (0.0022%)  
p.L343Wfs\*13 (0.0022%)  
p.A137Efs\*78 (0.0022%)  
p.H29Rfs\*27 (0.0022%)  
p.L845Efs\*15 (0.0022%)  
p.Q699\* (0.0022%)  
p.C28Lfs\*6 (0.0022%)  
p.T522I (0.0044%)  
p.N174Kfs\*25 (0.0044%)  
p.T468Pfs\*13 (0.0044%)  
p.E138K (0.0044%)  
p.M282I (0.0044%)  
p.Y523C (0.0044%)  
p.P825Rfs\*21 (0.0044%)  
p.T40Rfs\*9 (0.0044%)  
p.T295\_Q307delinsK (0.0044%)  
p.S70Dfs\*9 (0.0044%)  
p.D288N (0.0044%)  
p.P260T (0.0044%)  
p.L721Pfs\*27 (0.0044%)  
p.D291Y (0.0044%)  
p.I521Nfs\*16 (0.0044%)  
p.E864K (0.0044%)  
p.R335Q (0.0044%)  
p.L71Sfs\*12 (0.0022%)  
p.W409\* (0.0044%)  
p.R54Kfs\*5 (0.0044%)  
p.S829\* (0.0044%)  
p.W156R (0.0044%)  
p.I713Ffs\*9 (0.0044%)  
p.N666Kfs\*7 (0.0044%)  
p.P826Cfs\*14 (0.0044%)  
p.T364Hfs\*4 (0.0044%)  
p.A873T (0.0044%)  
p.Q647\* (0.0044%)  
p.G577Efs\*7 (0.0044%)  
p.R43Gfs\*13 (0.0044%)  
p.V41Gfs\*15 (0.0044%)  
p.F810Lfs\*6 (0.0044%)  
p.E243\* (0.0044%)  
p.Q152\* (0.0044%)  
p.D221Ifs\*29 (0.0044%)  
p.I615Hfs\*2 (0.0044%)  
p.N315Kfs\*41 (0.0044%)  
p.T394\* (0.0044%)  
p.E482\* (0.0044%)  
p.K184Qfs\*15 (0.0044%)  
p.L466Hfs\*16 (0.0044%)  
p.N369T (0.0044%)  
p.L15Cfs\*41 (0.0044%)  
p.I363\* (0.0044%)  
p.Y755Mfs\*15 (0.0044%)  
p.Y37\* (0.0044%)  
p.Y827\_D828delins\* (0.0044%)  
p.R492Kfs\*30 (0.0044%)  
p.S133F (0.0044%)  
p.N166Mfs\*49 (0.0044%)  
p.K314Vfs\*4 (0.0044%)  
p.D644N (0.0044%)  
p.A842V (0.0044%)  
p.V473D (0.0044%)  
p.G169Afs\*46 (0.0044%)  
p.G134\* (0.0044%)  
p.R87Kfs\*7 (0.0044%)  
p.F516Nfs\*4 (0.0044%)  
p.T379= (0.0044%)  
p.V325I (0.0044%)  
p.L669H (0.0044%)  
p.S5R (0.0044%)  
p.D254Y (0.0044%)  
p.I525Ffs\*32 (0.0044%)  
p.H632Tfs\*31 (0.0044%)  
p.T368Nfs\*4 (0.0044%)  
p.E659\* (0.0044%)  
p.I650Hfs\*12 (0.0044%)  
p.E806\* (0.0044%)  
p.I451L (0.0044%)  
p.L711Pfs\*37 (0.0044%)  
p.Q503\* (0.0044%)  
p.N144Tfs\*71 (0.0044%)  
p.R598Q (0.0044%)  
p.D257\_N258delinsND (0.0044%)  
p.C163\* (0.0044%)  
p.D291Hfs\*11 (0.0044%)  
p.D308\* (0.0044%)  
p.I594Yfs\*19 (0.0044%)  
p.T253Sfs\*3 (0.0044%)  
p.S111fs\*? (0.0044%)  
p.G715\* (0.0044%)  
p.K268\* (0.0044%)  
p.D644Tfs\*9 (0.0044%)  
p.P200Hfs\*16 (0.0044%)  
p.V345Gfs\*5 (0.0044%)  
p.N849Qfs\*12 (0.0044%)  
p.L681\* (0.0044%)  
p.W638\* (0.0044%)  
p.G808Wfs\*9 (0.0044%)  
p.E852Rfs\*9 (0.0044%)  
p.L582Cfs\*2 (0.0044%)  
p.P277Qfs\*5 (0.0044%)  
p.L714Rfs\*33 (0.0044%)  
p.L46Wfs\*10 (0.0044%)  
p.N622Kfs\*9 (0.0044%)  
p.N431Kfs\*15 (0.0044%)  
p.Q765\* (0.0044%)  
p.V694Afs\*28 (0.0044%)  
p.E138\* (0.0044%)  
p.S180F (0.0044%)  
p.G571S (0.0044%)  
p.P309Xfs\*29 (0.0044%)  
p.S270Lfs\*12 (0.0044%)  
p.E410Gfs\*7 (0.0044%)  
p.I435Hfs\*11 (0.0044%)  
p.H233Q (0.0044%)  
p.G212Dfs\*3 (0.0044%)  
p.V17Gfs\*17 (0.0044%)  
p.D418Efs\*27 (0.0044%)  
p.H97Ifs\*20 (0.0044%)  
p.A286T (0.0044%)  
p.L776Qfs\*2 (0.0044%)  
p.L355Vfs\*13 (0.0044%)  
p.A408V (0.0044%)  
p.W532\* (0.0044%)  
p.N315S (0.0044%)  
p.G31Afs\*28 (0.0044%)  
p.T790Pfs\*3 (0.0044%)  
p.R734Kfs\*14 (0.0044%)  
p.A692V (0.0044%)  
p.P126Rfs\*89 (0.0044%)  
p.D308N (0.0044%)  
p.L630V (0.0022%)  
p.R54Qfs\*5 (0.0022%)  
p.P201Sfs\*15 (0.0022%)  
p.P201Vfs\*15 (0.0022%)  
p.T38A (0.0022%)  
p.Y37Cfs\*21 (0.0022%)  
p.T38M (0.0022%)  
p.G169Rfs\*5 (0.0022%)  
p.A817V (0.0022%)  
p.K268Ifs\*15 (0.0022%)  
p.G324Vfs\*30 (0.0022%)  
p.H29Q (0.0022%)  
p.P30S (0.0022%)  
p.P30R (0.0022%)  
p.G278V (0.0022%)  
p.P801Lfs\*15 (0.0022%)  
p.F499Lfs\*38 (0.0022%)  
p.S36Afs\*20 (0.0022%)  
p.D819Hfs\*6 (0.0022%)  
p.N238\* (0.0022%)  
p.R732Q (0.0022%)  
p.S111Rfs\*2 (0.0022%)  
p.R108S (0.0022%)  
p.Y341Vfs\*9 (0.0022%)  
p.T627Hfs\*36 (0.0022%)  
p.I594Hfs\*11 (0.0022%)  
p.S19Pfs\*38 (0.0022%)  
p.S146\* (0.0022%)  
p.H632Rfs\*30 (0.0022%)  
p.V202Lfs\*14 (0.0022%)  
p.D590N (0.0022%)  
p.P201Lfs\*14 (0.0022%)  
p.P201A (0.0022%)  
p.P200= (0.0022%)  
p.L791F (0.0022%)  
p.T330Nfs\*20 (0.0022%)  
p.Q673\* (0.0022%)  
p.A802Cfs\*8 (0.0022%)  
p.S19Pfs\*11 (0.0022%)  
p.H233Rfs\*10 (0.0022%)  
p.V794Pfs\*16 (0.0022%)  
p.I206Yfs\*3 (0.0022%)  
p.T560= (0.0022%)  
p.A698Gfs\*50 (0.0022%)  
p.L583Pfs\*6 (0.0022%)  
p.I161fs\*7 (0.0022%)  
p.Y835\* (0.0022%)  
p.W409L (0.0022%)  
p.Y37C (0.0022%)  
p.G212Mfs\*10 (0.0022%)  
p.T560R (0.0022%)  
p.S70F (0.0022%)  
p.T330Gfs\*21 (0.0022%)  
p.R800Afs\*16 (0.0022%)  
p.V114Yfs\*50 (0.0022%)  
p.V329Gfs\*22 (0.0022%)  
p.R54\* (0.0022%)  
p.T251K (0.0022%)  
p.F338Sfs\*18 (0.0022%)  
p.P607S (0.0022%)  
p.N536Ifs\*21 (0.0022%)  
p.I326Nfs\*24 (0.0022%)  
p.S635Kfs\*34 (0.0022%)  
p.N315Kfs\*6 (0.0022%)  
p.L658Ffs\*5 (0.0022%)  
p.D155Efs\*61 (0.0022%)  
p.Q610L (0.0022%)  
p.G278Rfs\*15 (0.0022%)  
p.A575Gfs\*13 (0.0022%)  
p.A401Gfs\*2 (0.0022%)  
p.D288Efs\*6 (0.0022%)  
p.Q64\_R65delinsHW (0.0022%)  
p.Q64Hfs\*2 (0.0022%)  
p.D821N (0.0022%)  
p.D777Tfs\*6 (0.0022%)  
p.W156Tfs\*60 (0.0022%)  
p.T199Cfs\*7 (0.0022%)  
p.R48Afs\*7 (0.0022%)  
p.C22Wfs\*31 (0.0022%)  
p.D288Gfs\*4 (0.0022%)  
p.S838G (0.0022%)  
p.D768Rfs\*14 (0.0022%)  
p.G352Rfs\*2 (0.0022%)  
p.A403Pfs\*14 (0.0022%)  
p.Q195K (0.0022%)  
p.E745\* (0.0022%)  
p.T360Nfs\*8 (0.0022%)  
p.P339Lfs\*17 (0.0022%)  
p.L658\_I665delinsF (0.0022%)  
p.L442\_Q448del (0.0022%)  
p.K491T (0.0022%)  
p.G239R (0.0022%)  
p.P88Lfs\*29 (0.0022%)  
p.Y753Ifs\*17 (0.0022%)  
p.D291Mfs\*3 (0.0022%)  
p.R108Tfs\*61 (0.0022%)  
p.D768\* (0.0022%)  
p.A691V (0.0022%)  
p.F110Vfs\*58 (0.0022%)  
p.T406Ifs\*6 (0.0022%)  
p.S507Pfs\*15 (0.0022%)  
p.E26Xfs\*25 (0.0022%)  
p.V678Gfs\*2 (0.0022%)  
p.T679Dfs\*9 (0.0022%)  
p.V51Afs\*6 (0.0022%)  
p.E518Nfs\*4 (0.0022%)  
p.T340A (0.0022%)  
p.P126Sfs\*42 (0.0022%)  
p.E494\* (0.0022%)  
p.A634= (0.0022%)  
p.I192\_G194del (0.0022%)  
p.L21Sfs\*32 (0.0022%)  
p.S236\* (0.0022%)  
p.Q23Rfs\*31 (0.0022%)  
p.H555Rfs\*32 (0.0022%)  
p.D104Tfs\*13 (0.0022%)  
p.W156Yfs\*10 (0.0022%)  
p.R749Gfs\*21 (0.0022%)  
p.D72Tfs\*11 (0.0022%)  
p.E757\* (0.0022%)  
p.S111Ffs\*57 (0.0022%)  
p.Y37Lfs\*22 (0.0022%)  
p.N431Qfs\*14 (0.0022%)  
p.F231\_S237del (0.0022%)  
p.V328fs\*? (0.0022%)  
p.N315Ifs\*41 (0.0022%)  
p.Y663\_K664delins\* (0.0022%)  
p.F317Lfs\*39 (0.0022%)  
p.Y508Tfs\*14 (0.0022%)  
p.D290Gfs\*4 (0.0022%)  
p.G278R (0.0022%)  
p.T467Hfs\*15 (0.0022%)  
p.T467S (0.0022%)  
p.A298T (0.0022%)  
p.H233fs\*? (0.0022%)  
p.L582\* (0.0022%)  
p.K816Rfs\*29 (0.0022%)  
p.R524Gfs\*33 (0.0022%)  
p.S793Efs\*14 (0.0022%)  
p.E283\* (0.0022%)  
p.A289Tfs\*6 (0.0022%)  
p.D313\* (0.0022%)  
p.A401Sfs\*2 (0.0022%)  
p.I207Mfs\*8 (0.0022%)  
p.P461Tfs\*3 (0.0022%)  
p.P429Qfs\*2 (0.0022%)  
p.K668\* (0.0022%)  
p.L582Pfs\*6 (0.0022%)  
p.W103R (0.0022%)  
p.V425I (0.0022%)  
p.L728\* (0.0022%)  
p.W156L (0.0022%)  
p.D257V (0.0022%)  
p.D764Gfs\*5 (0.0022%)  
p.H128Ifs\*87 (0.0022%)  
p.T470Qfs\*11 (0.0022%)  
p.P595Rfs\*9 (0.0022%)  
p.I594Xfs\*19 (0.0022%)  
p.Q765Pfs\*4 (0.0022%)  
p.I505Sfs\*17 (0.0022%)  
p.L667Qfs\*5 (0.0022%)  
p.L741Ffs\*6 (0.0022%)  
p.A719Ffs\*28 (0.0022%)  
p.D618Y (0.0022%)  
p.R733Efs\*15 (0.0022%)  
p.P429Kfs\*7 (0.0022%)  
p.L791Sfs\*2 (0.0022%)  
p.N570Kfs\*14 (0.0022%)  
p.I485Hfs\*6 (0.0022%)  
p.I161Sfs\*54 (0.0022%)  
p.E336= (0.0022%)  
p.N258Qfs\*11 (0.0022%)  
p.P744Qfs\*26 (0.0022%)  
p.E880K (0.0022%)  
p.R87Afs\*6 (0.0022%)  
p.C163Y (0.0022%)  
p.K447\* (0.0022%)  
p.A439Qfs\*16 (0.0022%)  
p.A563Qfs\*3 (0.0022%)  
p.K173\* (0.0022%)  
p.A348Lfs\*8 (0.0022%)  
p.L220Sfs\*3 (0.0022%)  
p.R734Efs\*36 (0.0022%)  
p.D402V (0.0022%)  
p.Q422\* (0.0022%)  
p.D288Gfs\*3 (0.0022%)  
p.C688\* (0.0022%)  
p.T379M (0.0022%)  
p.P260H (0.0022%)  
p.G716Nfs\*31 (0.0022%)  
p.K675Tfs\*2 (0.0022%)  
p.V55L (0.0022%)  
p.H121Xfs\*94 (0.0022%)  
p.G759Efs\*11 (0.0022%)  
p.I521fs\*? (0.0022%)  
p.E551Gfs\*6 (0.0022%)  
p.D750Rfs\*5 (0.0022%)  
p.Y663\* (0.0022%)  
p.D662Efs\*10 (0.0022%)  
p.Q677Hfs\*3 (0.0022%)  
p.D288Gfs\*5 (0.0022%)  
p.E494Gfs\*43 (0.0022%)  
p.I304Nfs\*7 (0.0022%)  
p.F231Cfs\*9 (0.0022%)  
p.R65Kfs\*29 (0.0022%)  
p.N536\_A541delinsT (0.0022%)  
p.H632Tfs\*21 (0.0022%)  
p.L452Yfs\*3 (0.0022%)  
p.N867S (0.0022%)  
p.Q307\* (0.0022%)  
p.R784\* (0.0022%)  
p.S19Rfs\*39 (0.0022%)  
p.S793Cfs\*13 (0.0022%)  
p.D155Lfs\*12 (0.0022%)  
p.E247Dfs\*12 (0.0022%)  
p.V202Cfs\*7 (0.0022%)  
p.N390K (0.0022%)  
p.L582\_A592del (0.0022%)  
p.L711Wfs\*11 (0.0022%)  
p.C28Afs\*28 (0.0022%)  
p.T251dup (0.0022%)  
p.F626C (0.0022%)  
p.S624Y (0.0022%)  
p.S624P (0.0022%)  
p.V252Rfs\*4 (0.0022%)  
p.Y341\* (0.0022%)  
p.L230Efs\*4 (0.0022%)  
p.H29Afs\*28 (0.0022%)  
p.L585Cfs\*4 (0.0022%)  
p.V456Gfs\*20 (0.0022%)  
p.A617T (0.0022%)  
p.D747Pfs\*8 (0.0022%)  
p.Q677Pfs\*3 (0.0022%)  
p.T360Gfs\*5 (0.0022%)  
p.F110Sfs\*3 (0.0022%)  
p.K738\* (0.0022%)  
p.D349V (0.0022%)  
p.I600Vfs\*20 (0.0022%)  
p.E353Vfs\*13 (0.0022%)  
p.A289Gfs\*5 (0.0022%)  
p.P260L (0.0022%)  
p.E388\* (0.0022%)  
p.?A>V (0.0022%)  
p.??>\* (0.0022%)  
p.M656Tfs\*16 (0.0022%)  
p.A824Gfs\*5 (0.0022%)  
p.I665Sfs\*14 (0.0022%)  
p.E512\* (0.0022%)  
p.N606Ifs\*7 (0.0022%)  
p.D514Y (0.0022%)  
p.V119Sfs\*49 (0.0022%)  
p.D349\_A359del (0.0022%)  
p.A788Efs\*14 (0.0022%)  
p.D257G (0.0022%)  
p.P245L (0.0022%)  
p.E757Mfs\*14 (0.0022%)  
p.P309Qfs\*29 (0.0022%)  
p.K381\* (0.0022%)  
p.Y754\* (0.0022%)  
p.G716\* (0.0022%)  
p.M282\_D288del (0.0022%)  
p.E210Q (0.0022%)  
p.R779Tfs\*3 (0.0022%)  
p.D777Lfs\*5 (0.0022%)  
p.G269W (0.0022%)  
p.E210Nfs\*12 (0.0022%)  
p.F516fs\*? (0.0022%)  
p.F91fs\*? (0.0022%)  
p.N390Kfs\*11 (0.0022%)  
p.E445fs\*? (0.0022%)  
p.L46Rfs\*10 (0.0022%)  
p.N117Rfs\*86 (0.0022%)  
p.A298D (0.0022%)  
p.D33Rfs\*26 (0.0022%)  
p.T823Qfs\*23 (0.0022%)  
p.E167\* (0.0022%)  
p.S793Kfs\*14 (0.0022%)  
p.S270X\*12 (0.0022%)  
p.E763\* (0.0022%)  
p.I158\_E167del (0.0022%)  
p.V85Qfs\*33 (0.0022%)  
p.L652\* (0.0022%)  
p.L71F (0.0022%)  
p.L343del (0.0022%)  
p.K491Ifs\*41 (0.0022%)  
p.K437Nfs\*8 (0.0022%)  
p.E648Rfs\*15 (0.0022%)  
p.S559N (0.0022%)  
p.P625fs\*? (0.0022%)  
p.V493Gfs\*43 (0.0022%)  
p.L8Cfs\*41 (0.0022%)  
p.Y753Tfs\*16 (0.0022%)  
p.N613Tfs\*18 (0.0022%)  
p.Q677Kfs\*2 (0.0022%)  
p.T84Pfs\*47 (0.0022%)  
p.W156G (0.0022%)  
p.R154Efs\*61 (0.0022%)  
p.S851L (0.0022%)  
p.?E>K (0.0022%)  
p.T263Nfs\*6 (0.0022%)  
p.W20C (0.0022%)  
p.H233P (0.0022%)  
p.E265Gfs\*4 (0.0022%)  
p.P740S (0.0022%)  
p.W20Cfs\*7 (0.0022%)  
p.H128Pfs\*40 (0.0022%)  
p.H121R (0.0022%)  
p.F516Lfs\*2 (0.0022%)  
p.D254Afs\*9 (0.0022%)  
p.I650Dfs\*7 (0.0022%)  
p.E283Tfs\*4 (0.0022%)  
p.D183Efs\*15 (0.0022%)  
p.D288Rfs\*3 (0.0022%)  
p.V17Efs\*40 (0.0022%)  
p.T468fs\*? (0.0022%)  
p.D400V (0.0022%)  
p.I206Tfs\*10 (0.0022%)  
p.I600M (0.0022%)  
p.Y380\_K440del (0.0022%)  
p.Q511Rfs\*10 (0.0022%)  
p.S543Pfs\*14 (0.0022%)  
p.A510Gfs\*25 (0.0022%)  
p.V456M (0.0022%)  
p.G715Wfs\*33 (0.0022%)  
p.L442Gfs\*18 (0.0022%)  
p.P200Tfs\*16 (0.0022%)  
p.L798Pfs\*8 (0.0022%)  
p.V391I (0.0022%)  
p.V683Qfs\*4 (0.0022%)  
p.T522Sfs\*36 (0.0022%)  
p.D254H (0.0022%)  
p.N622Ifs\*9 (0.0022%)  
p.D766Gfs\*3 (0.0022%)  
p.V55fs\*38 (0.0022%)  
p.F262\_E265delinsL (0.0022%)  
p.S70Ifs\*24 (0.0022%)  
p.R774K (0.0022%)  
p.T40Hfs\*19 (0.0022%)  
p.T330I (0.0022%)  
p.L731Sfs\*17 (0.0022%)  
p.A628Nfs\*32 (0.0022%)  
p.N803Ifs\*13 (0.0022%)  
p.N570Mfs\*14 (0.0022%)  
p.T623Kfs\*41 (0.0022%)  
p.W409Gfs\*8 (0.0022%)  
p.A709T (0.0022%)  
p.P3R (0.0022%)  
p.I650Xfs\*13 (0.0022%)  
p.K491Efs\*30 (0.0022%)  
p.G62D (0.0022%)  
p.G633Tfs\*21 (0.0022%)  
p.I710Dfs\*35 (0.0022%)  
p.H92Y (0.0022%)  
p.P160Rfs\*8 (0.0022%)  
p.T599Lfs\*14 (0.0022%)  
p.S507Lfs\*13 (0.0022%)  
p.E265Gfs\*24 (0.0022%)  
p.E58\* (0.0022%)  
p.E283Rfs\*11 (0.0022%)  
p.I615Mfs\*16 (0.0022%)  
p.N405Ifs\*12 (0.0022%)  
p.E682Vfs\*34 (0.0022%)  
p.D552N (0.0022%)  
p.Q1584\* (0.0132%)  
p.Q149\* (0.0088%)  
p.R715\* (0.0088%)  
p.E460Q (0.0066%)  
p.S2421\* (0.0066%)  
p.G3517D (0.0066%)  
p.E2428K (0.0044%)  
p.Q2291\* (0.0066%)  
p.S1519\* (0.0066%)  
p.Q3074\* (0.0066%)  
p.S250Y (0.0066%)  
p.L61= (0.0044%)  
p.S72C (0.0044%)  
p.V1655= (0.0044%)  
p.A3627= (0.0044%)  
p.R1253C (0.0044%)  
p.P674= (0.0044%)  
p.R3381W (0.0044%)  
p.S924\* (0.0044%)  
p.S1646F (0.0044%)  
p.G3526\_G3527del (0.0044%)  
p.F3456Sfs\*29 (0.0044%)  
p.Q3107\* (0.0044%)  
p.K3032T (0.0044%)  
p.Q2491Vfs\*42 (0.0044%)  
p.S219\* (0.0044%)  
p.P2048\_P2050del (0.0044%)  
p.Q2258Rfs\*22 (0.0044%)  
p.R2158\* (0.0044%)  
p.F204C (0.0044%)  
p.A905G (0.0044%)  
p.A2556V (0.0044%)  
p.E482K (0.0044%)  
p.P2597T (0.0044%)  
p.E313K (0.0044%)  
p.L3371M (0.0044%)  
p.K2681N (0.0044%)  
p.A89Cfs\*30 (0.0044%)  
p.A1428T (0.0044%)  
p.E1490K (0.0044%)  
p.S1643= (0.0044%)  
p.S2515\* (0.0022%)  
p.L3544= (0.0022%)  
p.L1983= (0.0022%)  
p.V1813= (0.0022%)  
p.A2405T (0.0022%)  
p.A2741P (0.0022%)  
p.R3040H (0.0022%)  
p.Q3197H (0.0022%)  
p.K2615N (0.0022%)  
p.Q3193\* (0.0022%)  
p.L995= (0.0022%)  
p.S2631R (0.0022%)  
p.V1370G (0.0022%)  
p.P2666A (0.0022%)  
p.V227I (0.0022%)  
p.T1244M (0.0022%)  
p.T824= (0.0022%)  
p.Q868L (0.0022%)  
p.K3245Rfs\*39 (0.0022%)  
p.G2767R (0.0022%)  
p.Q2108= (0.0022%)  
p.R1712= (0.0022%)  
p.R1426T (0.0022%)  
p.Q2035\* (0.0022%)  
p.S3643\* (0.0022%)  
p.G1080A (0.0022%)  
p.R1893Gfs\*35 (0.0022%)  
p.D612N (0.0022%)  
p.S2918\* (0.0022%)  
p.S1510F (0.0022%)  
p.R2948H (0.0022%)  
p.V1282M (0.0022%)  
p.R2319K (0.0022%)  
p.T1379M (0.0022%)  
p.P2116= (0.0022%)  
p.Q1741del (0.0022%)  
p.S3587L (0.0022%)  
p.Q3202\_Q3204dup (0.0022%)  
p.P534= (0.0022%)  
p.A301T (0.0022%)  
p.Y2132C (0.0022%)  
p.E40= (0.0022%)  
p.Q2952E (0.0022%)  
p.G3521= (0.0022%)  
p.I2344M (0.0022%)  
p.G1511V (0.0022%)  
p.A66= (0.0022%)  
p.D270N (0.0022%)  
p.P2045\_P2050dup (0.0022%)  
p.P2058Afs\*98 (0.0022%)  
p.G3406Rfs\*25 (0.0022%)  
p.S551I (0.0022%)  
p.Q841\* (0.0022%)  
p.D1939H (0.0022%)  
p.E483\_E487dup (0.0022%)  
p.Q3203\_Q3209dup (0.0022%)  
p.Q1390\* (0.0022%)  
p.G249S (0.0022%)  
p.G3519= (0.0022%)  
p.S168W (0.0022%)  
p.S168P (0.0022%)  
p.A472\_E473del (0.0022%)  
p.I1138N (0.0022%)  
p.K2723N (0.0022%)  
p.S2933C (0.0022%)  
p.K801N (0.0022%)  
p.I1034= (0.0022%)  
p.N2317= (0.0022%)  
p.Q1747\* (0.0022%)  
p.E1020\* (0.0022%)  
p.S3513\_G3522del (0.0022%)  
p.A2297G (0.0022%)  
p.K1537\* (0.0022%)  
p.G3518= (0.0022%)  
p.R1237W (0.0022%)  
p.S3273\* (0.0022%)  
p.D538G (0.4933%)  
p.K303R (0.4536%)  
p.Y537S (0.2731%)  
p.E380Q (0.1321%)  
p.Y537C (0.1167%)  
p.Y537N (0.0925%)  
p.L536H (0.033%)  
p.L536P (0.0176%)  
p.V422del (0.0154%)  
p.S463P (0.0154%)  
p.L536R (0.0132%)  
p.V478L (0.011%)  
p.A546D (0.0088%)  
p.S432L (0.0088%)  
p.L448= (0.0044%)  
p.A283V (0.0066%)  
p.E471D (0.0066%)  
p.L536Q (0.0066%)  
p.K481N (0.0066%)  
p.S329Y (0.0066%)  
p.V534E (0.0066%)  
p.G442R (0.0066%)  
p.H524L (0.0066%)  
p.F461V (0.0066%)  
p.V418E (0.0066%)  
p.G160D (0.0066%)  
p.Y246\* (0.0044%)  
p.L370F (0.0044%)  
p.C530L (0.0022%)  
p.N532K (0.0044%)  
p.G344\_L345insC (0.0044%)  
p.K252N (0.0044%)  
p.Y328\_S329del (0.0044%)  
p.L466Q (0.0044%)  
p.P147Q (0.0044%)  
p.M421V (0.0044%)  
p.G521Rfs\*18 (0.0044%)  
p.Y537H (0.0044%)  
p.S338G (0.0044%)  
p.F97L (0.0044%)  
p.Y537delins\* (0.0044%)  
p.G344D (0.0044%)  
p.Y537D (0.0044%)  
p.L540Q (0.0044%)  
p.G420D (0.0044%)  
p.A593D (0.0022%)  
p.Q17H (0.0022%)  
p.L549P (0.0022%)  
p.T594= (0.0022%)  
p.E523Q (0.0022%)  
p.G274= (0.0022%)  
p.A65V (0.0022%)  
p.N21Efs\*65 (0.0022%)  
p.Q500del (0.0022%)  
p.L403= (0.0022%)  
p.E397= (0.0022%)  
p.D411H (0.0022%)  
p.K472= (0.0022%)  
p.P222S (0.0022%)  
p.P29Sfs\*79 (0.0022%)  
p.S576L (0.0022%)  
p.M437I (0.0022%)  
p.N407I (0.0022%)  
p.A58T (0.0022%)  
p.M522I (0.0022%)  
p.A50A (0.0022%)  
p.G145D (0.0022%)  
p.L497R (0.0022%)  
p.G274R (0.0022%)  
p.N156T (0.0022%)  
p.K299R (0.0022%)  
p.Y328Ffs\*4 (0.0022%)  
p.S282C (0.0022%)  
p.L453F (0.0022%)  
p.D538\_L539insHD (0.0022%)  
p.E471V (0.0022%)  
p.K303\_N304delinsNS (0.0022%)  
p.V422A (0.0022%)  
p.M388L (0.0022%)  
p.R477Q (0.0022%)  
p.G557R (0.0022%)  
p.D272Mfs\*14 (0.0022%)  
p.M396V (0.0022%)  
p.N69K (0.0022%)  
p.F209del (0.0022%)  
p.K302Rfs\*9 (0.0022%)  
p.R503W (0.0022%)  
p.V533M (0.0022%)  
p.R555H (0.0022%)  
p.A546T (0.0022%)  
p.K531E (0.0022%)  
p.R233G (0.0022%)  
p.S47T (0.0022%)  
p.P535H (0.0022%)  
p.V392I (0.0022%)  
p.L536\_D538>P (0.0022%)  
p.E279V (0.0022%)  
p.R183W (0.022%)  
p.D683N (0.0088%)  
p.Q86H (0.0066%)  
p.K901N (0.0066%)  
p.R82T (0.0066%)  
p.R870C (0.0066%)  
p.G1073D (0.0066%)  
p.V122I (0.0066%)  
p.S536= (0.0044%)  
p.F1322= (0.0044%)  
p.N688S (0.0044%)  
p.E630K (0.0044%)  
p.S537G (0.0044%)  
p.R450Q (0.0044%)  
p.S249L (0.0044%)  
p.E181K (0.0044%)  
p.Q615\* (0.0044%)  
p.D873Y (0.0044%)  
p.P18Q (0.0044%)  
p.N672K (0.0044%)  
p.R1062L (0.0044%)  
p.E917K (0.0044%)  
p.P372T (0.0022%)  
p.V1135M (0.0044%)  
p.M591K (0.0044%)  
p.L1231M (0.0044%)  
p.M817Tfs\*54 (0.0044%)  
p.R632Q (0.0044%)  
p.R936\* (0.0022%)  
p.I284= (0.0022%)  
p.E985K (0.0022%)  
p.Q1147\* (0.0022%)  
p.T1067S (0.0022%)  
p.R1403H (0.0022%)  
p.C1103F (0.0022%)  
p.L1373V (0.0022%)  
p.P1075H (0.0022%)  
p.V138= (0.0022%)  
p.W136L (0.0022%)  
p.Q86= (0.0022%)  
p.T898= (0.0022%)  
p.C1134S (0.0022%)  
p.I153= (0.0022%)  
p.F849= (0.0022%)  
p.T1365= (0.0022%)  
p.E816Q (0.0022%)  
p.G682D (0.0022%)  
p.R947Q (0.0022%)  
p.H173L (0.0022%)  
p.V1146L (0.0022%)  
p.A68= (0.0022%)  
p.V440I (0.0022%)  
p.V396I (0.0022%)  
p.T49N (0.0022%)  
p.S843F (0.0022%)  
p.N510S (0.0022%)  
p.E876\* (0.0022%)  
p.S73C (0.0022%)  
p.G81R (0.0022%)  
p.P957A (0.0022%)  
p.M471I (0.0022%)  
p.G745A (0.0022%)  
p.N344K (0.0022%)  
p.D483= (0.0022%)  
p.Y1306= (0.0022%)  
p.A887T (0.0022%)  
p.R459= (0.0022%)  
p.I315= (0.0022%)  
p.V515I (0.0022%)  
p.T809= (0.0022%)  
p.S303F (0.0242%)  
p.E810Q (0.0132%)  
p.R1250= (0.0088%)  
p.E1199K (0.0088%)  
p.G727A (0.0088%)  
p.G286V (0.0088%)  
p.E1144Q (0.0066%)  
p.Y123N (0.0066%)  
p.I404V (0.0066%)  
p.E1138= (0.0066%)  
p.F356L (0.0044%)  
p.G135V (0.0066%)  
p.E54K (0.0066%)  
p.R306H (0.0066%)  
p.G725= (0.0044%)  
p.L686F (0.0044%)  
p.E742K (0.0044%)  
p.A1097V (0.0044%)  
p.P241L (0.0044%)  
p.C589S (0.0044%)  
p.S1046R (0.0044%)  
p.G1178E (0.0044%)  
p.E547Q (0.0044%)  
p.E928Q (0.0044%)  
p.D300H (0.0044%)  
p.L770Q (0.0044%)  
p.Y1242C (0.0044%)  
p.R711C (0.0022%)  
p.H295Q (0.0022%)  
p.K955\* (0.0044%)  
p.Q598Rfs\*55 (0.0044%)  
p.P1153H (0.0022%)  
p.M322I (0.0044%)  
p.K1218R (0.0044%)  
p.S449P (0.0044%)  
p.N490K (0.0044%)  
p.E1287K (0.0044%)  
p.R50H (0.0044%)  
p.F401L (0.0022%)  
p.S184L (0.0022%)  
p.P1092H (0.0022%)  
p.R491I (0.0022%)  
p.K291= (0.0022%)  
p.P1299= (0.0022%)  
p.T476A (0.0022%)  
p.Y1022C (0.0022%)  
p.L661R (0.0022%)  
p.V1065= (0.0022%)  
p.E317= (0.0022%)  
p.F414L (0.0022%)  
p.V348L (0.0022%)  
p.L177F (0.0022%)  
p.V315I (0.0022%)  
p.E276K (0.0022%)  
p.E317K (0.0022%)  
p.E1283K (0.0022%)  
p.A214Rfs\*4 (0.0022%)  
p.L1008= (0.0022%)  
p.D462N (0.0022%)  
p.N1177Mfs\*27 (0.0022%)  
p.R1040T (0.0022%)  
p.K361= (0.0022%)  
p.F967I (0.0022%)  
p.P172R (0.0022%)  
p.S509G (0.0022%)  
p.H190Y (0.0022%)  
p.S406L (0.0022%)  
p.P920R (0.0022%)  
p.F1004S (0.0022%)  
p.E1205K (0.0022%)  
p.L450= (0.0022%)  
p.D73V (0.0022%)  
p.A455T (0.0022%)  
p.T703K (0.0022%)  
p.G223R (0.0022%)  
p.G500E (0.0022%)  
p.R838Q (0.0022%)  
p.R1040K (0.0022%)  
p.H374Q (0.0022%)  
p.E810K (0.0022%)  
p.P1292S (0.0022%)  
p.G6V (0.0022%)  
p.R847H (0.0022%)  
p.A600S (0.0022%)  
p.A761E (0.0022%)  
p.R484Nfs\*10 (0.0022%)  
p.N482D (0.0022%)  
p.S581C (0.0022%)  
p.V370F (0.0022%)  
p.R106H (0.0022%)  
p.G596V (0.0022%)  
p.M977\_A978delinsIS (0.0022%)  
p.L913= (0.0022%)  
p.A1019T (0.0022%)  
p.N465K (0.0022%)  
p.N1108Y (0.0022%)  
p.L1296= (0.0022%)  
p.S1228\* (0.0022%)  
p.N278S (0.0022%)  
p.R1304W (0.0022%)  
p.R484T (0.0022%)  
p.N203T (0.0022%)  
p.I119V (0.0022%)  
p.S1246N (0.0022%)  
p.H1189Y (0.0022%)  
p.M1016Yfs\*5 (0.0022%)  
p.N71K (0.0022%)  
p.T731M (0.0022%)  
p.C323\* (0.0022%)  
p.A1236V (0.0022%)  
p.T1215\_Y1221del (0.0022%)  
p.R1045S (0.0022%)  
p.T211M (0.0022%)  
p.G599W (0.0022%)  
p.W407R (0.0022%)  
p.E534Vfs\*3 (0.0022%)  
p.V395L (0.0022%)  
p.V721I (0.0022%)  
p.E872K (0.0022%)  
p.E1168\* (0.0022%)  
p.R524L (0.0022%)  
p.D595G (0.0022%)  
p.K935R (0.0022%)  
p.D348N (0.0286%)  
p.K2797Rfs\*26 (0.0088%)  
p.Q448\* (0.011%)  
p.R380L (0.011%)  
p.K1205\* (0.011%)  
p.Q4534\* (0.011%)  
p.R3606\* (0.011%)  
p.S279\* (0.011%)  
p.Q507\* (0.011%)  
p.Q2220\* (0.0066%)  
p.Q4279\* (0.0066%)  
p.K4351Nfs\*5 (0.0066%)  
p.R2884\* (0.0066%)  
p.N3086K (0.0088%)  
p.R4139\* (0.0088%)  
p.E2718Q (0.0088%)  
p.Q2903E (0.0088%)  
p.Q2788\* (0.0088%)  
p.Q1759\* (0.0088%)  
p.S2542Yfs\*20 (0.0088%)  
p.H2540L (0.0088%)  
p.Q2054\* (0.0088%)  
p.E82\* (0.0088%)  
p.R2066\* (0.0088%)  
p.E523K (0.0088%)  
p.K3401\* (0.0088%)  
p.E78Nfs\*17 (0.0088%)  
p.Q2317\* (0.0066%)  
p.Q528\* (0.0088%)  
p.S691C (0.0022%)  
p.R4478\* (0.0066%)  
p.Q1218\* (0.0066%)  
p.Y306\* (0.0066%)  
p.R56\* (0.0066%)  
p.E4008K (0.0066%)  
p.W430C (0.0066%)  
p.M689I (0.0066%)  
p.S401N (0.0066%)  
p.D4425H (0.0066%)  
p.L736= (0.0066%)  
p.G292E (0.0066%)  
p.T361I (0.0066%)  
p.S2953Rfs\*23 (0.0066%)  
p.E3717K (0.0022%)  
p.K339N (0.0022%)  
p.I4244L (0.0066%)  
p.E4256K (0.0066%)  
p.E2718K (0.0066%)  
p.S397\* (0.0066%)  
p.Q2503\* (0.0066%)  
p.S4151F (0.0066%)  
p.S1449\* (0.0066%)  
p.D3996N (0.0066%)  
p.S593L (0.0066%)  
p.P2356Qfs\*3 (0.0066%)  
p.Q1534\* (0.0066%)  
p.D4530H (0.0066%)  
p.K3866N (0.0066%)  
p.V2905Cfs\*20 (0.0066%)  
p.R1108T (0.0066%)  
p.Q2161\* (0.0066%)  
p.I2391Pfs\*37 (0.0066%)  
p.E477Q (0.0066%)  
p.G3007Efs\*25 (0.0066%)  
p.V4158M (0.0066%)  
p.R2198Efs\*4 (0.0066%)  
p.S888T (0.0066%)  
p.K170T (0.0066%)  
p.P309S (0.0044%)  
p.S1618\* (0.0022%)  
p.E4378K (0.0044%)  
p.P4296R (0.0044%)  
p.G398Efs\*7 (0.0022%)  
p.S3865\* (0.0022%)  
p.E1122Q (0.0044%)  
p.R254Lfs\*7 (0.0022%)  
p.T360N (0.0044%)  
p.Q461\* (0.0022%)  
p.T408Nfs\*3 (0.0022%)  
p.R2933Hfs\*21 (0.0022%)  
p.E765\* (0.0022%)  
p.R2028\* (0.0022%)  
p.L1509Ifs\*3 (0.0022%)  
p.K893Sfs\*20 (0.0022%)  
p.D218Vfs\*43 (0.0022%)  
p.P335= (0.0044%)  
p.D599Vfs\*12 (0.0022%)  
p.K4509Nfs\*2 (0.0022%)  
p.L1067V (0.0044%)  
p.A3103T (0.0044%)  
p.S2025L (0.0044%)  
p.P2493Rfs\*22 (0.0022%)  
p.R4334W (0.0044%)  
p.E97Q (0.0044%)  
p.I455Dfs\*3 (0.0022%)  
p.P2955Lfs\*4 (0.0044%)  
p.Q3484\* (0.0022%)  
p.S1225\* (0.0044%)  
p.K3609N (0.0044%)  
p.S682\* (0.0044%)  
p.P1809Lfs\*18 (0.0022%)  
p.R4789\* (0.0044%)  
p.E3050K (0.0044%)  
p.Q2301\* (0.0044%)  
p.P19= (0.0044%)  
p.R4353T (0.0044%)  
p.G4902A (0.0044%)  
p.E4026\* (0.0044%)  
p.S3585\* (0.0044%)  
p.Q1473\* (0.0044%)  
p.W4357\* (0.0044%)  
p.Q3312\* (0.0044%)  
p.M812I (0.0044%)  
p.S4050\* (0.0044%)  
p.S3213L (0.0044%)  
p.S2123\* (0.0044%)  
p.E3393\* (0.0044%)  
p.L901Afs\*30 (0.0044%)  
p.R679K (0.0044%)  
p.V1949\_D1961del (0.0044%)  
p.G892E (0.0044%)  
p.I3590L (0.0044%)  
p.C1060Wfs\*10 (0.0044%)  
p.Q318E (0.0044%)  
p.S187\* (0.0044%)  
p.E2705Q (0.0044%)  
p.S1469F (0.0044%)  
p.Y2218\* (0.0022%)  
p.R3507\* (0.0044%)  
p.R2066Q (0.0044%)  
p.R4400Q (0.0044%)  
p.R3960= (0.0044%)  
p.I4489M (0.0044%)  
p.R897\* (0.0044%)  
p.S593\* (0.0044%)  
p.D2624Rfs\*33 (0.0044%)  
p.L974F (0.0044%)  
p.E728\* (0.0022%)  
p.Q1937\* (0.0044%)  
p.S939C (0.0044%)  
p.S349R (0.0044%)  
p.N3695Ifs\*4 (0.0044%)  
p.Q109\* (0.0044%)  
p.R4334Q (0.0044%)  
p.S2090\* (0.0044%)  
p.H1551Tfs\*12 (0.0044%)  
p.L596V (0.0044%)  
p.C310= (0.0044%)  
p.Q1478\* (0.0044%)  
p.S3786\* (0.0044%)  
p.T3607Kfs\*23 (0.0044%)  
p.C4465Vfs\*52 (0.0044%)  
p.I1030= (0.0044%)  
p.E640\* (0.0044%)  
p.A3222G (0.0044%)  
p.Q88\* (0.0044%)  
p.P4149L (0.0044%)  
p.Q1719\* (0.0044%)  
p.S4260C (0.0044%)  
p.E3679Dfs\*2 (0.0044%)  
p.R284Q (0.0044%)  
p.Q4560\* (0.0044%)  
p.T2195Rfs\*42 (0.0044%)  
p.R2403\* (0.0044%)  
p.F1359Cfs\*17 (0.0044%)  
p.S3213\* (0.0044%)  
p.P2264Lfs\*6 (0.0044%)  
p.R4549C (0.0044%)  
p.E713Nfs\*5 (0.0044%)  
p.S1602\* (0.0044%)  
p.E690\* (0.0044%)  
p.R1890\* (0.0044%)  
p.A1679S (0.0044%)  
p.R4400G (0.0044%)  
p.Y4687Lfs\*18 (0.0044%)  
p.V4439F (0.0044%)  
p.Q3194\* (0.0044%)  
p.Q2396\* (0.0044%)  
p.T610Sfs\*4 (0.0044%)  
p.M1901Nfs\*13 (0.0044%)  
p.K827I (0.0044%)  
p.E3732V (0.0044%)  
p.E1689Kfs\*28 (0.0044%)  
p.G2579R (0.0044%)  
p.R2647S (0.0044%)  
p.Q3489\* (0.0044%)  
p.E4343K (0.0044%)  
p.L2749\* (0.0044%)  
p.D1554G (0.0044%)  
p.F3544Lfs\*9 (0.0044%)  
p.E1623\* (0.0044%)  
p.G3135V (0.0044%)  
p.K1832E (0.0044%)  
p.Q1211\* (0.0044%)  
p.R1890G (0.0044%)  
p.R3853Q (0.0044%)  
p.C1004F (0.0044%)  
p.Q49\* (0.0044%)  
p.Q318\* (0.0044%)  
p.E2885K (0.0022%)  
p.R2610Q (0.0022%)  
p.G315C (0.0022%)  
p.L2381= (0.0022%)  
p.E3724K (0.0022%)  
p.V3549= (0.0022%)  
p.D4344H (0.0022%)  
p.R3606T (0.0022%)  
p.G3602= (0.0022%)  
p.E4381K (0.0022%)  
p.D3264N (0.0022%)  
p.N4593S (0.0022%)  
p.V4719D (0.0022%)  
p.T4500Gfs\*4 (0.0022%)  
p.P3169S (0.0022%)  
p.G398E (0.0022%)  
p.K822R (0.0022%)  
p.T3238Rfs\*6 (0.0022%)  
p.P3277= (0.0022%)  
p.S1883= (0.0022%)  
p.P1834= (0.0022%)  
p.S914R (0.0022%)  
p.V1776G (0.0022%)  
p.T3303P (0.0022%)  
p.P1856= (0.0022%)  
p.T1837P (0.0022%)  
p.G4842R (0.0022%)  
p.C370Y (0.0022%)  
p.L418V (0.0022%)  
p.Q1771\* (0.0022%)  
p.V781M (0.0022%)  
p.C438Y (0.0022%)  
p.G1294= (0.0022%)  
p.N621Kfs\*6 (0.0022%)  
p.V3284= (0.0022%)  
p.Q1787Lfs\*18 (0.0022%)  
p.E495Dfs\*42 (0.0022%)  
p.S1712\* (0.0022%)  
p.D1896Qfs\*40 (0.0022%)  
p.E3874= (0.0022%)  
p.K4222= (0.0022%)  
p.Q1105= (0.0022%)  
p.Q982K (0.0022%)  
p.D599V (0.0022%)  
p.D599= (0.0022%)  
p.R2596= (0.0022%)  
p.S1334C (0.0022%)  
p.E3873Q (0.0022%)  
p.Q203H (0.0022%)  
p.E1992Q (0.0022%)  
p.E3845Q (0.0022%)  
p.Y4580S (0.0022%)  
p.G3834R (0.0022%)  
p.V3524A (0.0022%)  
p.A3700Vfs\*26 (0.0022%)  
p.I1223F (0.0022%)  
p.W1002\* (0.0022%)  
p.L1217Rfs\*7 (0.0022%)  
p.E2776\* (0.0022%)  
p.S4190N (0.0022%)  
p.K832= (0.0022%)  
p.M2531\* (0.0022%)  
p.G722E (0.0022%)  
p.K4391\* (0.0022%)  
p.G429D (0.0022%)  
p.Q3151\* (0.0022%)  
p.L687F (0.0022%)  
p.N169D (0.0022%)  
p.H4484L (0.0022%)  
p.Q587= (0.0022%)  
p.P3496L (0.0022%)  
p.E1260\* (0.0022%)  
p.Q3476\* (0.0022%)  
p.W880\* (0.0022%)  
p.R4211W (0.0022%)  
p.S2411= (0.0022%)  
p.R4194T (0.0022%)  
p.W4197\* (0.0022%)  
p.A311G (0.0022%)  
p.S1889\* (0.0022%)  
p.R1351Gfs\*23 (0.0022%)  
p.K3784Ifs\*8 (0.0022%)  
p.G4542A (0.0022%)  
p.P2794Q (0.0022%)  
p.G3438A (0.0022%)  
p.S2937T (0.0022%)  
p.Q666K (0.0022%)  
p.T1650= (0.0022%)  
p.D457G (0.0022%)  
p.G3106D (0.0022%)  
p.Q396\* (0.0022%)  
p.A4100T (0.0022%)  
p.Q1677\* (0.0022%)  
p.P2042L (0.0022%)  
p.E648Vfs\*8 (0.0022%)  
p.T1191K (0.0022%)  
p.Q220\* (0.0022%)  
p.E1165Q (0.0022%)  
p.S4066L (0.0022%)  
p.R4270\* (0.0022%)  
p.H2111Ifs\*32 (0.0022%)  
p.E329K (0.0022%)  
p.P3278Lfs\*3 (0.0022%)  
p.Q2147\* (0.0022%)  
p.F2190V (0.0022%)  
p.T3711Yfs\*14 (0.0022%)  
p.C134Y (0.0022%)  
p.E4515K (0.0022%)  
p.Q2632E (0.0022%)  
p.H414Y (0.0022%)  
p.R1986= (0.0022%)  
p.V346= (0.0022%)  
p.C391\* (0.0022%)  
p.I3637= (0.0022%)  
p.E718A (0.0022%)  
p.D2567Y (0.0022%)  
p.H2540Lfs\*22 (0.0022%)  
p.T1171S (0.0022%)  
p.P2467S (0.0022%)  
p.E2379\* (0.0022%)  
p.Y987H (0.0022%)  
p.C988F (0.0022%)  
p.S4255P (0.0022%)  
p.G917R (0.0022%)  
p.K1832\* (0.0022%)  
p.V4633Rfs\*5 (0.0022%)  
p.S143Vfs\*3 (0.0022%)  
p.L3346V (0.0022%)  
p.C417\* (0.0022%)  
p.Q2018Sfs\*7 (0.0022%)  
p.S3394N (0.0022%)  
p.L699\* (0.0022%)  
p.R1917T (0.0022%)  
p.C4493Y (0.0022%)  
p.G2232D (0.0022%)  
p.P1280= (0.0022%)  
p.T1358A (0.0022%)  
p.P1863A (0.0022%)  
p.P711A (0.0022%)  
p.P1606L (0.0022%)  
p.E1666\* (0.0022%)  
p.L3048= (0.0022%)  
p.M305Dfs\*28 (0.0022%)  
p.S3660Wfs\*21 (0.0022%)  
p.K4764Gfs\*3 (0.0022%)  
p.P2029H (0.0022%)  
p.K3870Rfs\*19 (0.0022%)  
p.H2205P (0.0022%)  
p.Q3315\* (0.0022%)  
p.G2329Rfs\*38 (0.0022%)  
p.S2330Ffs\*36 (0.0022%)  
p.S1336F (0.0022%)  
p.D4425A (0.0022%)  
p.L3104F (0.0022%)  
p.A4252V (0.0022%)  
p.T316N (0.0022%)  
p.E1120\* (0.0022%)  
p.R895\* (0.0022%)  
p.S753\* (0.0022%)  
p.L527\* (0.0022%)  
p.M422I (0.0022%)  
p.D2700Mfs\*13 (0.0022%)  
p.L1187S (0.0022%)  
p.T3698Ifs\*4 (0.0022%)  
p.K629\* (0.0022%)  
p.Y1963H (0.0022%)  
p.V3284F (0.0022%)  
p.I323= (0.0022%)  
p.S4081Ifs\*12 (0.0022%)  
p.Q1775H (0.0022%)  
p.Q3591\* (0.0022%)  
p.V3938I (0.0022%)  
p.A3756Hfs\*22 (0.0022%)  
p.Q1688\* (0.0022%)  
p.N621\* (0.0022%)  
p.E340K (0.0022%)  
p.C310\* (0.0022%)  
p.Y2174H (0.0022%)  
p.S2362Wfs\*4 (0.0022%)  
p.R907Pfs\*7 (0.0022%)  
p.T1545I (0.0022%)  
p.R2296H (0.0022%)  
p.S2816Ifs\*6 (0.0022%)  
p.K3100R (0.0022%)  
p.S122Cfs\*9 (0.0022%)  
p.G964R (0.0022%)  
p.A3103S (0.0022%)  
p.H252Y (0.0022%)  
p.W225\* (0.0022%)  
p.E1486\* (0.0022%)  
p.L1793F (0.0022%)  
p.E2838K (0.0022%)  
p.R284\* (0.0022%)  
p.K4332Sfs\*4 (0.0022%)  
p.R904Efs\*9 (0.0022%)  
p.K3735Nfs\*10 (0.0022%)  
p.I3267Dfs\*59 (0.0022%)  
p.M2475\* (0.0022%)  
p.C1025S (0.0022%)  
p.Q11\* (0.0022%)  
p.E2231\* (0.0022%)  
p.R1634S (0.0022%)  
p.N4811K (0.0022%)  
p.A3148S (0.0022%)  
p.I3149Ffs\*7 (0.0022%)  
p.E1642\* (0.0022%)  
p.P3459Tfs\*3 (0.0022%)  
p.C385F (0.0022%)  
p.P3555T (0.0022%)  
p.E633Kfs\*2 (0.0022%)  
p.L4193H (0.0022%)  
p.E3724\* (0.0022%)  
p.P4035T (0.0022%)  
p.K4391Nfs\*22 (0.0022%)  
p.I4055M (0.0022%)  
p.Q1977\* (0.0022%)  
p.P1891T (0.0022%)  
p.Q3189\* (0.0022%)  
p.S793= (0.0022%)  
p.N2990Ifs\*4 (0.0022%)  
p.L145\* (0.0022%)  
p.Q1392\* (0.0022%)  
p.P1877T (0.0022%)  
p.L224Nfs\*34 (0.0022%)  
p.T2824Nfs\*9 (0.0022%)  
p.Q1813\* (0.0022%)  
p.R4595P (0.0022%)  
p.Y3699Mfs\*6 (0.0022%)  
p.S1733L (0.0022%)  
p.E1356V (0.0022%)  
p.R2515K (0.0022%)  
p.R4779W (0.0022%)  
p.C977Y (0.0022%)  
p.L3957= (0.0022%)  
p.G4415E (0.0022%)  
p.E66\* (0.0022%)  
p.C517Lfs\*2 (0.0022%)  
p.S207Ffs\*3 (0.0022%)  
p.L804Sfs\*2 (0.0022%)  
p.Y4483\* (0.0022%)  
p.S2930\* (0.0022%)  
p.S130Rfs\*39 (0.0022%)  
p.S854R (0.0022%)  
p.Q1186E (0.0022%)  
p.P2901Lfs\*5 (0.0022%)  
p.I1381V (0.0022%)  
p.P3286Dfs\*6 (0.0022%)  
p.K4215\* (0.0022%)  
p.R1718S (0.0022%)  
p.S3585Pfs\*11 (0.0022%)  
p.S4247\* (0.0022%)  
p.Q3255\* (0.0022%)  
p.M524R (0.0022%)  
p.Q3147\* (0.0022%)  
p.Q109Sfs\*6 (0.0022%)  
p.E1748K (0.0022%)  
p.E1746\* (0.0022%)  
p.I4613F (0.0022%)  
p.Q3696Rfs\*7 (0.0022%)  
p.A2223V (0.0022%)  
p.R526L (0.0022%)  
p.P787R (0.0022%)  
p.S1686N (0.0022%)  
p.L791Ffs\*5 (0.0022%)  
p.Q2895Rfs\*11 (0.0022%)  
p.P3375Hfs\*9 (0.0022%)  
p.H4290Y (0.0022%)  
p.K4647Vfs\*2 (0.0022%)  
p.R904\* (0.0022%)  
p.C1926Yfs\*8 (0.0022%)  
p.Q3587\* (0.0022%)  
p.Q2985Gfs\*16 (0.0022%)  
p.C310S (0.0022%)  
p.Q3792\* (0.0022%)  
p.C441Wfs\*5 (0.0022%)  
p.S3449Pfs\*18 (0.0022%)  
p.E4531Rfs\*95 (0.0022%)  
p.C359S (0.0022%)  
p.E1744\* (0.0022%)  
p.M3306Wfs\*55 (0.0022%)  
p.C1114F (0.0022%)  
p.L2265Vfs\*6 (0.0022%)  
p.I3629Nfs\*22 (0.0022%)  
p.T79M (0.0022%)  
p.E2231K (0.0022%)  
p.T2433Qfs\*11 (0.0022%)  
p.N2372Yfs\*17 (0.0022%)  
p.Q3068\* (0.0022%)  
p.D348E (0.0022%)  
p.E257\* (0.0022%)  
p.F2190Lfs\*5 (0.0022%)  
p.R2388H (0.0022%)  
p.N1612D (0.0022%)  
p.D4425Y (0.0022%)  
p.S397L (0.0022%)  
p.E1096V (0.0022%)  
p.G2002Efs\*30 (0.0022%)  
p.H367D (0.0022%)  
p.N486Ifs\*9 (0.0022%)  
p.E1152G (0.0022%)  
p.N3108Kfs\*2 (0.0022%)  
p.R894Q (0.0022%)  
p.E4049\* (0.0022%)  
p.G3843Vfs\*45 (0.0022%)  
p.L2662Cfs\*16 (0.0022%)  
p.N2980Pfs\*21 (0.0022%)  
p.I1344Nfs\*11 (0.0022%)  
p.L3248Nfs\*13 (0.0022%)  
p.T1119Nfs\*2 (0.0022%)  
p.L4420R (0.0022%)  
p.E4880K (0.0022%)  
p.M3827I (0.0022%)  
p.T1969I (0.0022%)  
p.I4780Dfs\*13 (0.0022%)  
p.N2967T (0.0022%)  
p.Q3545\* (0.0022%)  
p.S4517Vfs\*109 (0.0022%)  
p.L4157\* (0.0022%)  
p.C467\* (0.0022%)  
p.G1309Afs\*22 (0.0022%)  
p.S2362\* (0.0022%)  
p.P4700Lfs\*16 (0.0022%)  
p.S1860C (0.0022%)  
p.C4198W (0.0022%)  
p.P2538Lfs\*24 (0.0022%)  
p.Q3427\* (0.0022%)  
p.T3884Nfs\*10 (0.0022%)  
p.Q3158\* (0.0022%)  
p.D2876Ifs\*30 (0.0022%)  
p.T1536A (0.0022%)  
p.P801Tfs\*5 (0.0022%)  
p.H4512R (0.0022%)  
p.C302Y (0.0022%)  
p.Q3137Vfs\*17 (0.0022%)  
p.A241G (0.0022%)  
p.E1097D (0.0022%)  
p.I4379\* (0.0022%)  
p.P3289L (0.0022%)  
p.P1472L (0.0022%)  
p.W4587\* (0.0022%)  
p.E765G (0.0022%)  
p.E2687D (0.0022%)  
p.D274E (0.0022%)  
p.E3738\* (0.0022%)  
p.R719M (0.0022%)  
p.Q2421\* (0.0022%)  
p.R4595G (0.0022%)  
p.I1030Kfs\*40 (0.0022%)  
p.R4828Afs\*7 (0.0022%)  
p.W383\* (0.0022%)  
p.T4468M (0.0022%)  
p.I3092L (0.0022%)  
p.E20Rfs\*85 (0.0022%)  
p.R3868M (0.0022%)  
p.W1053Mfs\*18 (0.0022%)  
p.Q1870Lfs\*68 (0.0022%)  
p.K4384\* (0.0022%)  
p.Q3147Tfs\*15 (0.0022%)  
p.F4277S (0.0022%)  
p.E4712\* (0.0022%)  
p.V1694Cfs\*7 (0.0022%)  
p.E746\* (0.0022%)  
p.K4253\* (0.0022%)  
p.S2494Rfs\*28 (0.0022%)  
p.A1432T (0.0022%)  
p.R4597C (0.0022%)  
p.Q2495Afs\*24 (0.0022%)  
p.E1642Rfs\*23 (0.0022%)  
p.E95Dfs\*11 (0.0022%)  
p.A2001Gfs\*4 (0.0022%)  
p.P468A (0.0022%)  
p.I811= (0.0022%)  
p.H484L (0.0022%)  
p.Q2368\* (0.0022%)  
p.E937del (0.0022%)  
p.Y984\* (0.0022%)  
p.D1029N (0.0022%)  
p.L3680\* (0.0022%)  
p.L4136V (0.0022%)  
p.P2268S (0.0022%)  
p.Q2375fs\*? (0.0022%)  
p.D4892G (0.0022%)  
p.A286P (0.0022%)  
p.N4431D (0.0022%)  
p.G981D (0.0022%)  
p.T1957Rfs\*17 (0.0022%)  
p.N2339Lfs\*27 (0.0022%)  
p.A96Sfs\*20 (0.0022%)  
p.K4499R (0.0022%)  
p.H4895Q (0.0022%)  
p.K4298Rfs\*29 (0.0022%)  
p.S1416L (0.0022%)  
p.Q2186Nfs\*2 (0.0022%)  
p.Q3185Rfs\*55 (0.0022%)  
p.S771\* (0.0022%)  
p.T2305Hfs\*7 (0.0022%)  
p.F4371\* (0.0022%)  
p.Y516Ifs\*20 (0.0022%)  
p.S2984Lfs\*6 (0.0022%)  
p.T1957M (0.0022%)  
p.I1311Yfs\*10 (0.0022%)  
p.L715Wfs\*3 (0.0022%)  
p.R3252Vfs\*10 (0.0022%)  
p.P4577Cfs\*4 (0.0022%)  
p.Q4739\* (0.0022%)  
p.N1477Rfs\*6 (0.0022%)  
p.Q3142R (0.0022%)  
p.P3712fs\*? (0.0022%)  
p.M515Ifs\*3 (0.0022%)  
p.A3930= (0.0022%)  
p.H609Ifs\*3 (0.0022%)  
p.L2870Cfs\*36 (0.0022%)  
p.D2693\* (0.0022%)  
p.R4418G (0.0022%)  
p.I237V (0.0022%)  
p.A1685Qfs\*32 (0.0022%)  
p.E2798Gfs\*11 (0.0022%)  
p.P3794R (0.0022%)  
p.R3400C (0.0022%)  
p.G382V (0.0022%)  
p.P1544L (0.0022%)  
p.C4474F (0.0022%)  
p.T1329Nfs\*4 (0.0022%)  
p.V278I (0.0022%)  
p.A241S (0.0022%)  
p.R3995\* (0.0022%)  
p.Q668Rfs\*3 (0.0022%)  
p.E681K (0.0022%)  
p.V1846M (0.0022%)  
p.P2437Tfs\*8 (0.0022%)  
p.H4833Qfs\*2 (0.0022%)  
p.Q2048\* (0.0022%)  
p.R3606Efs\*24 (0.0022%)  
p.H2604R (0.0022%)  
p.E87Rfs\*9 (0.0022%)  
p.T2851Nfs\*14 (0.0022%)  
p.P12S (0.0022%)  
p.E4863\* (0.0022%)  
p.S1840C (0.0022%)  
p.S818\* (0.0022%)  
p.W258Cfs\*3 (0.0022%)  
p.L4666Rfs\*9 (0.0022%)  
p.R3224L (0.0022%)  
p.I823Nfs\*5 (0.0022%)  
p.S806= (0.0022%)  
p.H658Qfs\*17 (0.0022%)  
p.T2195A (0.0022%)  
p.L3483Tfs\*11 (0.0022%)  
p.Q2186\* (0.0022%)  
p.T4272Nfs\*43 (0.0022%)  
p.E3681\* (0.0022%)  
p.T2378Rfs\*11 (0.0022%)  
p.S863Qfs\*50 (0.0022%)  
p.S4300A (0.0022%)  
p.S4022\* (0.0022%)  
p.C1103\* (0.0022%)  
p.C302\* (0.0022%)  
p.Q3396\* (0.0022%)  
p.K2797fs\*? (0.0022%)  
p.H365Q (0.0022%)  
p.F1736S (0.0022%)  
p.Q642\* (0.0022%)  
p.I868T (0.0022%)  
p.K832\* (0.0022%)  
p.V576F (0.0022%)  
p.E704\* (0.0022%)  
p.G4542del (0.0022%)  
p.R3421Kfs\*20 (0.0022%)  
p.H367Y (0.0022%)  
p.Y3699Vfs\*26 (0.0022%)  
p.R2963C (0.0022%)  
p.R3868Gfs\*21 (0.0022%)  
p.G3584R (0.0022%)  
p.L732F (0.0022%)  
p.P377= (0.0022%)  
p.S1459\* (0.0022%)  
p.T1941= (0.0022%)  
p.Q2550\* (0.0022%)  
p.G2282R (0.0022%)  
p.R2571W (0.0022%)  
p.S3371\* (0.0022%)  
p.K3604R (0.0022%)  
p.S2935L (0.0022%)  
p.R1481\* (0.0022%)  
p.T2367Nfs\*23 (0.0022%)  
p.P409Afs\*99 (0.2819%)  
p.D336Gfs\*17 (0.1387%)  
p.M294K (0.0947%)  
p.N332Efs\*21 (0.0506%)  
p.P409Sfs\*99 (0.0352%)  
p.R367\* (0.0352%)  
p.S427Ifs\*81 (0.0286%)  
p.H435Pfs\*42 (0.0264%)  
p.S414Qfs\*94 (0.0286%)  
p.H435Pfs\*73 (0.022%)  
p.E360Afs\*44 (0.0264%)  
p.H424Afs\*84 (0.0198%)  
p.D336Gfs\*21 (0.022%)  
p.S437Pfs\*39 (0.0242%)  
p.S408Afs\*99 (0.022%)  
p.S402Vfs\*106 (0.0176%)  
p.R331Efs\*22 (0.0198%)  
p.M294R (0.0198%)  
p.C321Lfs\*32 (0.0198%)  
p.P409Tfs\*99 (0.0198%)  
p.C339Lfs\*14 (0.0198%)  
p.S137L (0.0198%)  
p.\*445Lfs\*63 (0.0154%)  
p.T419Hfs\*89 (0.0176%)  
p.P409Qfs\*97 (0.0176%)  
p.R367Q (0.0176%)  
p.T356Qfs\*97 (0.0154%)  
p.K359del (0.0154%)  
p.S437Lfs\*71 (0.011%)  
p.Y346\* (0.011%)  
p.A333Cfs\*20 (0.0132%)  
p.R365T (0.011%)  
p.G444Vfs\*32 (0.011%)  
p.D336Pfs\*16 (0.011%)  
p.S427Afs\*82 (0.011%)  
p.M357I (0.011%)  
p.S93F (0.011%)  
p.W329Lfs\*24 (0.0066%)  
p.R330Efs\*23 (0.0066%)  
p.M401Nfs\*107 (0.0066%)  
p.D336Efs\*17 (0.0088%)  
p.P409Lfs\*98 (0.0088%)  
p.M423Dfs\*85 (0.0088%)  
p.G432Wfs\*76 (0.0088%)  
p.L301= (0.0088%)  
p.M357V (0.0088%)  
p.Y345Lfs\*8 (0.0088%)  
p.R331Mfs\*24 (0.0088%)  
p.R306L (0.0088%)  
p.T418Dfs\*90 (0.0088%)  
p.G335Wfs\*18 (0.0088%)  
p.L404Efs\*103 (0.0088%)  
p.R365G (0.0088%)  
p.A395Lfs\*110 (0.0088%)  
p.S402Ffs\*106 (0.0088%)  
p.M357\_K388del (0.0088%)  
p.W329Efs\*23 (0.0066%)  
p.R330Kfs\*22 (0.0044%)  
p.H282R (0.0066%)  
p.R331Kfs\*22 (0.0066%)  
p.S437Pfs\*40 (0.0044%)  
p.V47Gfs\*6 (0.0066%)  
p.S138= (0.0066%)  
p.N352Dfs\*3 (0.0044%)  
p.A442Pfs\*35 (0.0066%)  
p.R331Lfs\*24 (0.0066%)  
p.L397Hfs\*107 (0.0066%)  
p.A333Gfs\*20 (0.0066%)  
p.R365S (0.0066%)  
p.N334Cfs\*15 (0.0066%)  
p.L190P (0.0066%)  
p.M357Efs\*14 (0.0066%)  
p.N352Kfs\*20 (0.0066%)  
p.T323Dfs\*30 (0.0066%)  
p.R331Mfs\*20 (0.0066%)  
p.N320Efs\*33 (0.0066%)  
p.H406Efs\*103 (0.0066%)  
p.P409Cfs\*10 (0.0066%)  
p.G432Tfs\*41 (0.0066%)  
p.L397Qfs\*109 (0.0066%)  
p.M443Pfs\*34 (0.0066%)  
p.T323Rfs\*34 (0.0066%)  
p.P425Rfs\*51 (0.0066%)  
p.G315Rfs\*38 (0.0066%)  
p.L417Pfs\*83 (0.0066%)  
p.E360\* (0.0066%)  
p.R69Qfs\*235 (0.0066%)  
p.A442Rfs\*66 (0.0066%)  
p.E360G (0.0066%)  
p.T316Kfs\*37 (0.0066%)  
p.M357Nfs\*15 (0.0066%)  
p.L348R (0.0066%)  
p.Q73L (0.0066%)  
p.A442Pfs\*34 (0.0066%)  
p.Y346del (0.0066%)  
p.S391Rfs\*112 (0.0066%)  
p.S403F (0.0066%)  
p.M439Wfs\*37 (0.0066%)  
p.P433Tfs\*75 (0.0022%)  
p.K375Vfs\*6 (0.0022%)  
p.V3= (0.0044%)  
p.T421Nfs\*87 (0.0022%)  
p.C376\* (0.0022%)  
p.H415Pfs\*93 (0.0022%)  
p.\*445Rfs\*31 (0.0022%)  
p.M439Ifs\*39 (0.0044%)  
p.N352Kfs\*19 (0.0022%)  
p.L344Afs\*9 (0.0022%)  
p.M401Lfs\*105 (0.0044%)  
p.K358Lfs\*2 (0.0044%)  
p.R9C (0.0044%)  
p.M416V (0.0044%)  
p.L141= (0.0044%)  
p.N332Sfs\*20 (0.0044%)  
p.H406Q (0.0044%)  
p.L355Pfs\*2 (0.0044%)  
p.S438Rfs\*38 (0.0044%)  
p.N352S (0.0022%)  
p.F431Wfs\*76 (0.0044%)  
p.N334Kfs\*19 (0.0044%)  
p.P422Rfs\*54 (0.0044%)  
p.C321Sfs\*31 (0.0044%)  
p.S408Ffs\*100 (0.0044%)  
p.P163S (0.0044%)  
p.N352Tfs\*4 (0.0044%)  
p.K388Rfs\*17 (0.0044%)  
p.S118F (0.0044%)  
p.N332Mfs\*24 (0.0044%)  
p.R365K (0.0044%)  
p.K368Nfs\*98 (0.0044%)  
p.S405Efs\*103 (0.0044%)  
p.K358\* (0.0044%)  
p.S427Yfs\*81 (0.0044%)  
p.V338D (0.0044%)  
p.A396Rfs\*112 (0.0044%)  
p.R330Gfs\*17 (0.0044%)  
p.R399Qfs\*109 (0.0044%)  
p.R399Tfs\*108 (0.0044%)  
p.P433Tfs\*74 (0.0044%)  
p.S121F (0.0044%)  
p.I362Rfs\*11 (0.0044%)  
p.T356\* (0.0044%)  
p.Q297K (0.0044%)  
p.P426Afs\*83 (0.0044%)  
p.S411Qfs\*97 (0.0044%)  
p.H435Rfs\*66 (0.0044%)  
p.P420Afs\*88 (0.0044%)  
p.E263V (0.0044%)  
p.P354T (0.0044%)  
p.E360Gfs\*12 (0.0044%)  
p.S138F (0.0044%)  
p.T419Afs\*86 (0.0044%)  
p.S391\* (0.0044%)  
p.D336fs\*? (0.0044%)  
p.P409fs\*? (0.0044%)  
p.T324Hfs\*29 (0.0044%)  
p.S408Lfs\*100 (0.0044%)  
p.Y75= (0.0044%)  
p.F431Sfs\*38 (0.0044%)  
p.A314Sfs\*39 (0.0044%)  
p.H412Pfs\*96 (0.0044%)  
p.M443Hfs\*65 (0.0044%)  
p.F431Lfs\*77 (0.0044%)  
p.C321Wfs\*18 (0.0044%)  
p.M401Ifs\*106 (0.0044%)  
p.M357Hfs\*16 (0.0044%)  
p.R331del (0.0044%)  
p.N332Gfs\*17 (0.0044%)  
p.R331Qfs\*19 (0.0044%)  
p.D179E (0.0044%)  
p.L348V (0.0022%)  
p.E46Tfs\*143 (0.0022%)  
p.I407Vfs\*106 (0.0022%)  
p.M401Hfs\*112 (0.0022%)  
p.S237Afs\*29 (0.0022%)  
p.N320= (0.0022%)  
p.K347Lfs\*7 (0.0022%)  
p.W329Nfs\*27 (0.0022%)  
p.P354R (0.0022%)  
p.K388Nfs\*112 (0.0022%)  
p.H349Sfs\*8 (0.0022%)  
p.H349Lfs\*8 (0.0022%)  
p.T169= (0.0022%)  
p.E263K (0.0022%)  
p.R365Hfs\*87 (0.0022%)  
p.S438Kfs\*40 (0.0022%)  
p.R330Efs\*28 (0.0022%)  
p.N332Gfs\*26 (0.0022%)  
p.I219Hfs\*85 (0.0022%)  
p.I122T (0.0022%)  
p.M294I (0.0022%)  
p.S438Pfs\*39 (0.0022%)  
p.R330= (0.0022%)  
p.P223Q (0.0022%)  
p.P16H (0.0022%)  
p.W96L (0.0022%)  
p.R331Efs\*23 (0.0022%)  
p.Y63Lfs\*241 (0.0022%)  
p.S317Vfs\*36 (0.0022%)  
p.M401Vfs\*106 (0.0022%)  
p.H435Pfs\*41 (0.0022%)  
p.H27Y (0.0022%)  
p.M439Nfs\*69 (0.0022%)  
p.R399Dfs\*6 (0.0022%)  
p.H59R (0.0022%)  
p.P387Qfs\*6 (0.0022%)  
p.T316Dfs\*37 (0.0022%)  
p.Y75fs\*? (0.0022%)  
p.P42K (0.0022%)  
p.P42L (0.0022%)  
p.L348Afs\*5 (0.0022%)  
p.S427Lfs\*77 (0.0022%)  
p.S212A (0.0022%)  
p.K358Gfs\*12 (0.0022%)  
p.A442Cfs\*47 (0.0022%)  
p.K358Ifs\*2 (0.0022%)  
p.L141del (0.0022%)  
p.T441Sfs\*36 (0.0022%)  
p.G57D (0.0022%)  
p.P409H (0.0022%)  
p.P409Rfs\*99 (0.0022%)  
p.R331Sfs\*20 (0.0022%)  
p.M423Pfs\*83 (0.0022%)  
p.Q363Hfs\*8 (0.0022%)  
p.S34A (0.0022%)  
p.R399Mfs\*109 (0.0022%)  
p.N334Qfs\*19 (0.0022%)  
p.N352Qfs\*19 (0.0022%)  
p.L344Pfs\*13 (0.0022%)  
p.Y345Sfs\*12 (0.0022%)  
p.I362Hfs\*10 (0.0022%)  
p.R365Hfs\*10 (0.0022%)  
p.D179G (0.0022%)  
p.P426Afs\*82 (0.0022%)  
p.L355Pfs\*17 (0.0022%)  
p.H91R (0.0022%)  
p.D48N (0.0022%)  
p.G281\_H282insQ (0.0022%)  
p.P191H (0.0022%)  
p.A70D (0.0022%)  
p.K347\* (0.0022%)  
p.I302dup (0.0022%)  
p.S408Qfs\*97 (0.0022%)  
p.A333Pfs\*23 (0.0022%)  
p.S438Afs\*38 (0.0022%)  
p.L301Pfs\*56 (0.0022%)  
p.R353Qfs\*5 (0.0022%)  
p.K195R (0.0022%)  
p.A395Gfs\*113 (0.0022%)  
p.K378R (0.0022%)  
p.G361Rfs\*12 (0.0022%)  
p.W112\* (0.0022%)  
p.A442Cfs\*66 (0.0022%)  
p.R365\* (0.0022%)  
p.C339Afs\*17 (0.0022%)  
p.S403Lfs\*105 (0.0022%)  
p.S405Qfs\*109 (0.0022%)  
p.S427Pfs\*49 (0.0022%)  
p.R307Kfs\*46 (0.0022%)  
p.R365Efs\*40 (0.0022%)  
p.A442Wfs\*33 (0.0022%)  
p.T356dup (0.0022%)  
p.W329R (0.0022%)  
p.A395V (0.0022%)  
p.K119M (0.0022%)  
p.P129Afs\*175 (0.0022%)  
p.T326Lfs\*24 (0.0022%)  
p.P422L (0.0022%)  
p.C321Lfs\*50 (0.0022%)  
p.S408Rfs\*10 (0.0022%)  
p.S408Cfs\*10 (0.0022%)  
p.S405Efs\*104 (0.0022%)  
p.S403Ffs\*106 (0.0022%)  
p.W329C (0.0022%)  
p.S67W (0.0022%)  
p.D336Vfs\*35 (0.0022%)  
p.E182Vfs\*121 (0.0022%)  
p.T327Pfs\*30 (0.0022%)  
p.A442Ifs\*51 (0.0022%)  
p.D336Gfs\*23 (0.0022%)  
p.R331Sfs\*22 (0.0022%)  
p.K359Ifs\*2 (0.0022%)  
p.V338Gfs\*21 (0.0022%)  
p.S126Y (0.0022%)  
p.W329\* (0.0022%)  
p.S131Cfs\*172 (0.0022%)  
p.F234Sfs\*32 (0.0022%)  
p.I362Afs\*44 (0.0022%)  
p.S403Yfs\*107 (0.0022%)  
p.A314Efs\*42 (0.0022%)  
p.H349Qfs\*4 (0.0022%)  
p.I362M (0.0022%)  
p.M357\_K358dup (0.0022%)  
p.R202C (0.0022%)  
p.L328H (0.0022%)  
p.L348Pfs\*5 (0.0022%)  
p.R313fs\*? (0.0022%)  
p.H435Tfs\*42 (0.0022%)  
p.\*445Yfs\*63 (0.0022%)  
p.P95S (0.0022%)  
p.M357Yfs\*15 (0.0022%)  
p.A442Gfs\*66 (0.0022%)  
p.W329L (0.0022%)  
p.S405Hfs\*107 (0.0022%)  
p.Y346Lfs\*7 (0.0022%)  
p.Q363\* (0.0022%)  
p.C342F (0.0022%)  
p.H400Qfs\*112 (0.0022%)  
p.I351Kfs\*3 (0.0022%)  
p.C342Wfs\*11 (0.0022%)  
p.S428Qfs\*80 (0.0022%)  
p.S427Yfs\*50 (0.0022%)  
p.S438Qfs\*70 (0.0022%)  
p.P436Tfs\*41 (0.0022%)  
p.L89Afs\*214 (0.0022%)  
p.Y346fs\*? (0.0022%)  
p.S430Qfs\*80 (0.0022%)  
p.N350Qfs\*3 (0.0022%)  
p.G361Rfs\*11 (0.0022%)  
p.R365I (0.0022%)  
p.R330Mfs\*24 (0.0022%)  
p.I122Sfs\*73 (0.0022%)  
p.A333Xfs\*? (0.0022%)  
p.P436Rfs\*42 (0.0022%)  
p.A211Sfs\*93 (0.0022%)  
p.S414fs\*? (0.0022%)  
p.G444Pfs\*34 (0.0022%)  
p.T441Kfs\*68 (0.0022%)  
p.H424fs\*? (0.0022%)  
p.N332Kfs\*21 (0.0022%)  
p.L383Tfs\*11 (0.0022%)  
p.V440Gfs\*68 (0.0022%)  
p.Q363H (0.0022%)  
p.T323Pfs\*33 (0.0022%)  
p.P409Ffs\*100 (0.0022%)  
p.N332fs\*? (0.0022%)  
p.P433Wfs\*76 (0.0022%)  
p.T441Sfs\*68 (0.0022%)  
p.P88L (0.0022%)  
p.S237Qfs\*67 (0.0022%)  
p.R330K (0.0022%)  
p.S437Vfs\*41 (0.0022%)  
p.T419Rfs\*57 (0.0022%)  
p.T326Gfs\*27 (0.0022%)  
p.C321fs\*? (0.0022%)  
p.P436Tfs\*42 (0.0022%)  
p.M357Ifs\*2 (0.0022%)  
p.D48V (0.0022%)  
p.L348Tfs\*5 (0.0022%)  
p.M423Ifs\*51 (0.0022%)  
p.R331fs\*? (0.0022%)  
p.G361Afs\*44 (0.0022%)  
p.A442Gfs\*36 (0.0022%)  
p.V440Gfs\*66 (0.0022%)  
p.V440Cfs\*68 (0.0022%)  
p.M416Tfs\*91 (0.0022%)  
p.D48Y (0.0022%)  
p.S437X\*9 (0.0022%)  
p.L344F (0.0022%)  
p.R330Efs\*22 (0.0022%)  
p.C318Vfs\*38 (0.0022%)  
p.M439Nfs\*38 (0.0022%)  
p.T441Gfs\*68 (0.0022%)  
p.R353\_P354dup (0.0022%)  
p.A396T (0.0022%)  
p.L355Rfs\*3 (0.0022%)  
p.P436dup (0.0022%)  
p.G315Efs\*38 (0.0022%)  
p.K359Efs\*13 (0.0022%)  
p.A341Lfs\*8 (0.0022%)  
p.V379Sfs\*3 (0.0022%)  
p.R367L (0.0022%)  
p.A395Qfs\*115 (0.0022%)  
p.T441Nfs\*67 (0.0022%)  
p.M443Ifs\*65 (0.0022%)  
p.T419Nfs\*89 (0.0022%)  
p.TAMG\*441delext\*23 (0.0022%)  
p.S428Xfs\*? (0.0022%)  
p.T316Nfs\*37 (0.0022%)  
p.L344Rfs\*13 (0.0022%)  
p.T421Afs\*82 (0.0022%)  
p.G44D (0.5131%)  
p.G44S (0.2951%)  
p.G44V (0.207%)  
p.G44C (0.1035%)  
p.G44R (0.0683%)  
p.G44A (0.0639%)  
p.V41\_P49del (0.033%)  
p.L36R (0.0308%)  
p.E79K (0.0176%)  
p.Q43P (0.0176%)  
p.K42\_V51del (0.0176%)  
p.F45\_G53del (0.0176%)  
p.K42\_G53del (0.0176%)  
p.Q2120H (0.0154%)  
p.P49\_E55del (0.0132%)  
p.F45\_P49del (0.0132%)  
p.N40\_V51del (0.0132%)  
p.V41\_S52del (0.011%)  
p.F45\_A50del (0.011%)  
p.Q48\_H56del (0.011%)  
p.V41\_N46del (0.011%)  
p.E1421Q (0.0088%)  
p.D1204E (0.0088%)  
p.S1359F (0.0088%)  
p.V41\_P49delinsA (0.0066%)  
p.R1496H (0.0088%)  
p.L39\_A50del (0.0088%)  
p.V41\_D54del (0.0088%)  
p.Q48\_E55del (0.0088%)  
p.F45\_Q48del (0.0088%)  
p.N40\_G53del (0.0088%)  
p.R1912C (0.0066%)  
p.E968Q (0.0066%)  
p.Q2109\* (0.0066%)  
p.E543K (0.0066%)  
p.G1218A (0.0066%)  
p.N40\_V41del (0.0066%)  
p.K42\_A50del (0.0066%)  
p.E1497\* (0.0066%)  
p.N46\_E55delinsK (0.0066%)  
p.N46\_V51del (0.0066%)  
p.D34\_Q43del (0.0066%)  
p.L39\_S52del (0.0066%)  
p.A38\_S52del (0.0066%)  
p.E35\_N46del (0.0066%)  
p.N40\_P49delinsT (0.0066%)  
p.L39\_D54del (0.0066%)  
p.R1467\* (0.0044%)  
p.D499H (0.0022%)  
p.S1438L (0.0044%)  
p.E253K (0.0044%)  
p.E589K (0.0044%)  
p.S700F (0.0044%)  
p.S555Y (0.0044%)  
p.E1362K (0.0044%)  
p.E408Q (0.0044%)  
p.A1774D (0.0044%)  
p.Q1916H (0.0044%)  
p.A38\_F45del (0.0022%)  
p.P13Efs\*22 (0.0044%)  
p.N1591S (0.0044%)  
p.N40\_K42del (0.0044%)  
p.N46\_S52del (0.0044%)  
p.H2116\_Q2119dup (0.0044%)  
p.Q2086del (0.0044%)  
p.E172K (0.0044%)  
p.R1266H (0.0044%)  
p.D100N (0.0044%)  
p.C746Sfs\*33 (0.0044%)  
p.Q43\_G44delinsR (0.0044%)  
p.Q1289L (0.0044%)  
p.Q43= (0.0044%)  
p.Q2076del (0.0044%)  
p.V41\_N46delinsD (0.0044%)  
p.A38D (0.0044%)  
p.R1611H (0.0044%)  
p.R155L (0.0044%)  
p.A50T (0.0044%)  
p.N46\_A50del (0.0044%)  
p.N40I (0.0044%)  
p.K42\_N46del (0.0044%)  
p.D34\_N46del (0.0044%)  
p.?fs\*? (0.0044%)  
p.L39\_N47del (0.0044%)  
p.K42\_H56delinsN (0.0044%)  
p.Q43\_N46delinsH (0.0044%)  
p.N40\_G44del (0.0044%)  
p.N47\_D54del (0.0044%)  
p.L39\_G44del (0.0044%)  
p.D34Xfs\*? (0.0044%)  
p.T37\_V41del (0.0044%)  
p.V41\_F45del (0.0044%)  
p.N40\_A50delinsT (0.0044%)  
p.V41E (0.0044%)  
p.L36P (0.0044%)  
p.Q48\_S52del (0.0044%)  
p.Q415P (0.0022%)  
p.H1178Y (0.0022%)  
p.E1626D (0.0022%)  
p.Q1455\* (0.0022%)  
p.R2139C (0.0022%)  
p.M944I (0.0022%)  
p.V760G (0.0022%)  
p.E899V (0.0022%)  
p.A935= (0.0022%)  
p.S1686L (0.0022%)  
p.E260\* (0.0022%)  
p.V1428G (0.0022%)  
p.K1225T (0.0022%)  
p.E461K (0.0022%)  
p.D913Y (0.0022%)  
p.R1733= (0.0022%)  
p.G220R (0.0022%)  
p.Q27E (0.0022%)  
p.L39F (0.0022%)  
p.D1204N (0.0022%)  
p.V462= (0.0022%)  
p.I190= (0.0022%)  
p.P1310= (0.0022%)  
p.F833L (0.0022%)  
p.G1958= (0.0022%)  
p.K1412N (0.0022%)  
p.V724I (0.0022%)  
p.E1251K (0.0022%)  
p.R1899Q (0.0022%)  
p.R1646\* (0.0022%)  
p.S1975= (0.0022%)  
p.D1332N (0.0022%)  
p.R1713Q (0.0022%)  
p.L366= (0.0022%)  
p.Q415K (0.0022%)  
p.K715E (0.0022%)  
p.Q1836Lfs\*57 (0.0022%)  
p.C1108S (0.0022%)  
p.V1439= (0.0022%)  
p.Q2119\_Q2120insHQQQ (0.0022%)  
p.Q323\* (0.0022%)  
p.K1345= (0.0022%)  
p.S1969P (0.0022%)  
p.P1966A (0.0022%)  
p.Q2092K (0.0022%)  
p.N1381Y (0.0022%)  
p.Q1917H (0.0022%)  
p.Y9\* (0.0022%)  
p.N2164D (0.0022%)  
p.R206W (0.0022%)  
p.R1709P (0.0022%)  
p.N1186K (0.0022%)  
p.V62A (0.0022%)  
p.P1869= (0.0022%)  
p.Q43\_P49delinsH (0.0022%)  
p.K174N (0.0022%)  
p.M1572I (0.0022%)  
p.R753W (0.0022%)  
p.V1223I (0.0022%)  
p.E1556K (0.0022%)  
p.L1176= (0.0022%)  
p.P182S (0.0022%)  
p.L1077Q (0.0022%)  
p.R1422P (0.0022%)  
p.R1343H (0.0022%)  
p.G1424D (0.0022%)  
p.A1048D (0.0022%)  
p.R1912H (0.0022%)  
p.A1736T (0.0022%)  
p.W439L (0.0022%)  
p.T2151Qfs\*68 (0.0022%)  
p.Q2076\* (0.0022%)  
p.D234V (0.0022%)  
p.K762= (0.0022%)  
p.I1344dup (0.0022%)  
p.R1357H (0.0022%)  
p.E1497K (0.0022%)  
p.N1111Y (0.0022%)  
p.A50P (0.0022%)  
p.T37Kfs\*8 (0.0022%)  
p.K42T (0.0022%)  
p.I856= (0.0022%)  
p.V41\_Q48>E (0.0022%)  
p.P713S (0.0022%)  
p.K420\* (0.0022%)  
p.M1407T (0.0022%)  
p.L1224F (0.0022%)  
p.L1730Tfs\*2 (0.0022%)  
p.(D34\_K68)? (0.0022%)  
p.S1892F (0.0022%)  
p.P1746Qfs\*12 (0.0022%)  
p.R1716Q (0.0022%)  
p.T1546M (0.0022%)  
p.R1709\* (0.0022%)  
p.R540C (0.0022%)  
p.R266C (0.0022%)  
p.Q2159R (0.0022%)  
p.D803E (0.0022%)  
p.E587E (0.0022%)  
p.L39\_D54delinsF (0.0022%)  
p.R1295C (0.0022%)  
p.A38T (0.0022%)  
p.Q2144R (0.0022%)  
p.D34\_T37del (0.0022%)  
p.V41A (0.0022%)  
p.Q43E (0.0022%)  
p.G44Wfs\*4 (0.0022%)  
p.A38V (0.0022%)  
p.N40T (0.0022%)  
p.N40D (0.0022%)  
p.S58Vfs\*39 (0.0022%)  
p.G1813S (0.0022%)  
p.I6V (0.0022%)  
p.A38\_Q43delinsE (0.0022%)  
p.A50= (0.0022%)  
p.E658Q (0.0022%)  
p.K42\_V51delinsI (0.0022%)  
p.T1403\_S1405del (0.0022%)  
p.N40\_Q48delinsK (0.0022%)  
p.P1872Q (0.0022%)  
p.Q27P (0.0022%)  
p.K717N (0.0022%)  
p.T2145del (0.0022%)  
p.G1837A (0.0022%)  
p.R1713\* (0.0022%)  
p.D395Afs\*13 (0.0022%)  
p.Q232\* (0.0022%)  
p.F45Lfs\*47 (0.0022%)  
p.N47\_E55delinsK (0.0022%)  
p.D34G (0.0022%)  
p.E35\_T37del (0.0022%)  
p.T150A (0.0022%)  
p.G1441R (0.0022%)  
p.R1808Qfs\*25 (0.0022%)  
p.G44H (0.0022%)  
p.K42N (0.0022%)  
p.D34\_F45delinsV (0.0022%)  
p.D34Qfs\*2 (0.0022%)  
p.D34\_L36delinsV (0.0022%)  
p.L36\_Q43del (0.0022%)  
p.T37\_V41delinsI (0.0022%)  
p.K42\_E55del (0.0022%)  
p.E35\_N40dup (0.0022%)  
p.A50\_S63del (0.0022%)  
p.K42\_P49delinsT (0.0022%)  
p.D34\_L39del (0.0022%)  
p.N47\_S52del (0.0022%)  
p.T37P (0.0022%)  
p.N40\_Q43delinsK (0.0022%)  
p.K32del (0.0022%)  
p.K42\_Q43del (0.0022%)  
p.A38\_N40del (0.0022%)  
p.K68N (0.0022%)  
p.E35\_G44delinsD (0.0022%)  
p.M1865V (0.0022%)  
p.Q43\_G44del (0.0022%)  
p.P26\_E33delinsQ (0.0022%)  
p.T37\_V51del (0.0022%)  
p.E35\_T37delinsA (0.0022%)  
p.G44\_P49del (0.0022%)  
p.D28\_K32del (0.0022%)  
p.P2129A (0.0022%)  
p.L1249F (0.0022%)  
p.K42\_G44del (0.0022%)  
p.N40\_Q48del (0.0022%)  
p.K42\_Q43dup (0.0022%)  
p.A38\_V41del (0.0022%)  
p.L39\_P49del (0.0022%)  
p.A38\_A50del (0.0022%)  
p.T37\_L39del (0.0022%)  
p.K42\_Q48del (0.0022%)  
p.T37\_L39dup (0.0022%)  
p.F45\_V51del (0.0022%)  
p.F45>CV (0.0022%)  
p.V41\_N47del (0.0022%)  
p.A38Dfs\*3 (0.0022%)  
p.V41Afs\*6 (0.0022%)  
p.G44\_Q48del (0.0022%)  
p.L36Qfs\*56 (0.0022%)  
p.T37M (0.0022%)  
p.D34Pfs\*2 (0.0022%)  
p.D34\_Q48del (0.0022%)  
p.T857M (0.0022%)  
p.N40Kfs\*8 (0.0022%)  
p.V41Sfs\*6 (0.0022%)  
p.L39\_G44delinsF (0.0022%)  
p.E35Gfs\*10 (0.0022%)  
p.Q43\_G44delinsH (0.0022%)  
p.V41\_N47delinsD (0.0022%)  
p.L39\_A50delinsF (0.0022%)  
p.E55D (0.0022%)  
p.A38\_F45delinsV (0.0022%)  
p.V41\_G44del (0.0022%)  
p.E35\_N40delinsD (0.0022%)  
p.F45\_S52del (0.0022%)  
p.K42\_F45del (0.0022%)  
p.K42\_P49delinsN (0.0022%)  
p.Q43H (0.0022%)  
p.N47Xfs\*? (0.0022%)  
p.V41\_V51del (0.0022%)  
p.N40\_G44delinsS (0.0022%)  
p.K42\_S52del (0.0022%)  
p.D34\_N40del (0.0022%)  
p.L39\_V51del (0.0022%)  
p.A1317V (0.0022%)  
p.K42\_F45delinsN (0.0022%)  
p.E35\_N40del (0.0022%)  
p.R273Sfs\*27 (0.0462%)  
p.R763Cfs\*35 (0.022%)  
p.R1385Kfs\*35 (0.0176%)  
p.L319Tfs\*7 (0.0176%)  
p.N305Tfs\*7 (0.0176%)  
p.T457Nfs\*4 (0.011%)  
p.Q1494\* (0.0154%)  
p.L380S (0.0154%)  
p.S1039\* (0.0132%)  
p.R364W (0.0132%)  
p.Q1259\* (0.0132%)  
p.Q367\* (0.0088%)  
p.Q345\* (0.011%)  
p.S258L (0.011%)  
p.S1330W (0.011%)  
p.T457Yfs\*4 (0.011%)  
p.Q1020\* (0.011%)  
p.E1419K (0.011%)  
p.M857Ifs\*39 (0.011%)  
p.Y553\* (0.011%)  
p.Q1220\* (0.0088%)  
p.G914Dfs\*7 (0.0066%)  
p.E1294Kfs\*13 (0.0066%)  
p.Q1207\* (0.0088%)  
p.T1145Nfs\*6 (0.0088%)  
p.Q1048\* (0.0088%)  
p.Q535Rfs\*5 (0.0088%)  
p.T457Sfs\*3 (0.0088%)  
p.E484Tfs\*8 (0.0088%)  
p.N599Mfs\*57 (0.0088%)  
p.K919Nfs\*2 (0.0088%)  
p.P550Lfs\*7 (0.0088%)  
p.S371\* (0.0088%)  
p.L318Cfs\*4 (0.0044%)  
p.I776Cfs\*4 (0.0044%)  
p.N1374S (0.0066%)  
p.S1077\* (0.0066%)  
p.Q624Rfs\*32 (0.0044%)  
p.N891Tfs\*18 (0.0066%)  
p.W376\* (0.0066%)  
p.E384K (0.0066%)  
p.K1272T (0.0066%)  
p.H1454Tfs\*10 (0.0066%)  
p.R532Q (0.0066%)  
p.L319\* (0.0066%)  
p.S431\* (0.0066%)  
p.V1346del (0.0066%)  
p.S748\* (0.0066%)  
p.E454K (0.0066%)  
p.P1206Lfs\*39 (0.0066%)  
p.Q977\* (0.0066%)  
p.V211Cfs\*9 (0.0066%)  
p.E601D (0.0066%)  
p.M566Nfs\*10 (0.0066%)  
p.C1120Sfs\*24 (0.0066%)  
p.L375V (0.0066%)  
p.P444Lfs\*43 (0.0066%)  
p.I1366del (0.0066%)  
p.W475\* (0.0044%)  
p.L556\* (0.0066%)  
p.S620Kfs\*26 (0.0066%)  
p.L328Pfs\*10 (0.0066%)  
p.G1436S (0.0066%)  
p.Q562\* (0.0066%)  
p.L1477Cfs\*13 (0.0066%)  
p.F1046\_Q1048delinsE\* (0.0066%)  
p.Q677\* (0.0066%)  
p.Q1492\* (0.0066%)  
p.E265Ifs\*35 (0.0066%)  
p.Q547\* (0.0066%)  
p.Q535\* (0.0066%)  
p.L766Wfs\*33 (0.0066%)  
p.P1011Lfs\*66 (0.0066%)  
p.Q951\* (0.0066%)  
p.E839Rfs\*24 (0.0066%)  
p.R405Vfs\*31 (0.0066%)  
p.Q1199\* (0.0066%)  
p.A594Gfs\*52 (0.0066%)  
p.G1339E (0.0066%)  
p.I1204V (0.0066%)  
p.T657Hfs\*2 (0.0066%)  
p.L515Sfs\*42 (0.0066%)  
p.R1064= (0.0044%)  
p.V906I (0.0044%)  
p.K1150Sfs\*22 (0.0022%)  
p.P298Hfs\*14 (0.0022%)  
p.G1252Wfs\*21 (0.0022%)  
p.R270Efs\*30 (0.0022%)  
p.R763\* (0.0022%)  
p.Q1273Tfs\*11 (0.0022%)  
p.E633\* (0.0022%)  
p.K1168Ifs\*18 (0.0022%)  
p.F1508I (0.0022%)  
p.R1385Efs\*37 (0.0022%)  
p.N749Kfs\*14 (0.0022%)  
p.Y651\* (0.0022%)  
p.E1137Kfs\*11 (0.0022%)  
p.H357Cfs\*4 (0.0022%)  
p.D1483Efs\*40 (0.0022%)  
p.S640\* (0.0022%)  
p.L877Wfs\*32 (0.0022%)  
p.E1315\* (0.0022%)  
p.M1195V (0.0044%)  
p.T847Lfs\*10 (0.0022%)  
p.L920Ffs\*10 (0.0022%)  
p.N1079Kfs\*2 (0.0022%)  
p.S622Dfs\*21 (0.0022%)  
p.Q1382\* (0.0022%)  
p.P1062Afs\*3 (0.0044%)  
p.P559Afs\*17 (0.0044%)  
p.K1119Nfs\*4 (0.0044%)  
p.A1414Dfs\*8 (0.0022%)  
p.E1286\* (0.0044%)  
p.Q1259E (0.0044%)  
p.A1387Cfs\*33 (0.0044%)  
p.S1002\* (0.0044%)  
p.E785K (0.0044%)  
p.E909D (0.0044%)  
p.Y791C (0.0044%)  
p.S514= (0.0044%)  
p.L738Ffs\*21 (0.0044%)  
p.L584= (0.0044%)  
p.S292L (0.0044%)  
p.R532\* (0.0044%)  
p.R273Kfs\*28 (0.0044%)  
p.S1344\* (0.0044%)  
p.N482Kfs\*10 (0.0044%)  
p.L1128= (0.0044%)  
p.R1278Sfs\*11 (0.0044%)  
p.F1149Kfs\*25 (0.0044%)  
p.I1347Yfs\*2 (0.0044%)  
p.P1474Lfs\*16 (0.0044%)  
p.R1368\* (0.0044%)  
p.E165= (0.0044%)  
p.A1290Sfs\*19 (0.0044%)  
p.I1307del (0.0044%)  
p.F1149L (0.0044%)  
p.G1229Rfs\*10 (0.0044%)  
p.G234Rfs\*66 (0.0044%)  
p.Q1235Tfs\*11 (0.0044%)  
p.N1305D (0.0044%)  
p.G879Vfs\*30 (0.0044%)  
p.K188Nfs\*2 (0.0044%)  
p.Y1319\* (0.0044%)  
p.R364Q (0.0044%)  
p.F360C (0.0044%)  
p.C571Mfs\*4 (0.0044%)  
p.R162Lfs\*2 (0.0044%)  
p.P1076A (0.0044%)  
p.N807Gfs\*15 (0.0044%)  
p.R315K (0.0044%)  
p.G608Afs\*48 (0.0044%)  
p.I1216Nfs\*23 (0.0044%)  
p.M362I (0.0044%)  
p.T304Qfs\*8 (0.0044%)  
p.S939Ffs\*2 (0.0044%)  
p.Q280Efs\*20 (0.0044%)  
p.R1482\* (0.0044%)  
p.S796Vfs\*11 (0.0044%)  
p.P301\_N325del (0.0044%)  
p.P1304Tfs\*31 (0.0044%)  
p.K690\* (0.0044%)  
p.R399Sfs\*5 (0.0044%)  
p.D1038Rfs\*4 (0.0044%)  
p.L318Ffs\*8 (0.0044%)  
p.D1164Vfs\*8 (0.0044%)  
p.Q390Cfs\*48 (0.0044%)  
p.T1148Nfs\*3 (0.0044%)  
p.Y773Lfs\*8 (0.0044%)  
p.N1125Kfs\*24 (0.0044%)  
p.W1325\* (0.0044%)  
p.M1442I (0.0044%)  
p.N1456S (0.0044%)  
p.R313G (0.0044%)  
p.N749Kfs\*15 (0.0044%)  
p.S628\* (0.0044%)  
p.R248\* (0.0044%)  
p.Q700\* (0.0044%)  
p.S637T (0.0044%)  
p.S704Qfs\*21 (0.0044%)  
p.A1154Gfs\*6 (0.0044%)  
p.E1179\* (0.0044%)  
p.Y773\* (0.0044%)  
p.E1293Rfs\*16 (0.0044%)  
p.G1252R (0.0044%)  
p.P278Afs\*23 (0.0044%)  
p.Y392C (0.0044%)  
p.F354Lfs\*2 (0.0044%)  
p.Q519\* (0.0044%)  
p.A1414Gfs\*6 (0.0044%)  
p.L1353Ffs\*10 (0.0044%)  
p.V1147Ifs\*23 (0.0044%)  
p.L515Pfs\*26 (0.0044%)  
p.I435Nfs\*4 (0.0022%)  
p.E1441K (0.0044%)  
p.Q520\* (0.0044%)  
p.A1465T (0.0044%)  
p.P1228Tfs\*11 (0.0044%)  
p.E168Lfs\*16 (0.0044%)  
p.S748Tfs\*13 (0.0044%)  
p.S823= (0.0044%)  
p.K1234Ifs\*11 (0.0044%)  
p.T1148A (0.0044%)  
p.I1464M (0.0044%)  
p.H1361Y (0.0044%)  
p.Q1273\* (0.0044%)  
p.A1417V (0.0044%)  
p.Q1175\* (0.0044%)  
p.R283T (0.0022%)  
p.S1026Y (0.0022%)  
p.F279Y (0.0022%)  
p.S531\* (0.0022%)  
p.A130Rfs\*49 (0.0022%)  
p.S333I (0.0022%)  
p.V632Afs\*19 (0.0022%)  
p.Q1425\* (0.0022%)  
p.D762= (0.0022%)  
p.G1356\_H1361del (0.0022%)  
p.I1216Gfs\*17 (0.0022%)  
p.I356Mfs\*38 (0.0022%)  
p.N749K (0.0022%)  
p.A314Gfs\*12 (0.0022%)  
p.R313Qfs\*13 (0.0022%)  
p.S1049\* (0.0022%)  
p.P324Lfs\*2 (0.0022%)  
p.P324Sfs\*2 (0.0022%)  
p.C479Ifs\*5 (0.0022%)  
p.Q957\* (0.0022%)  
p.E1286del (0.0022%)  
p.H469Pfs\*12 (0.0022%)  
p.S992Lfs\*85 (0.0022%)  
p.C1257del (0.0022%)  
p.S592Mfs\*67 (0.0022%)  
p.H1361Ffs\*20 (0.0022%)  
p.L1357Pfs\*24 (0.0022%)  
p.A887Pfs\*19 (0.0022%)  
p.S782\* (0.0022%)  
p.A1417T (0.0022%)  
p.I342Dfs\*43 (0.0022%)  
p.F341Lfs\*44 (0.0022%)  
p.P233Qfs\*30 (0.0022%)  
p.N1320Kfs\*5 (0.0022%)  
p.S1330L (0.0022%)  
p.H1173D (0.0022%)  
p.R8= (0.0022%)  
p.E231Q (0.0022%)  
p.L639P (0.0022%)  
p.R307Qfs\*8 (0.0022%)  
p.G268Qfs\*36 (0.0022%)  
p.P403Hfs\*33 (0.0022%)  
p.S1358= (0.0022%)  
p.H357Y (0.0022%)  
p.T1070Kfs\*12 (0.0022%)  
p.S606Ffs\*40 (0.0022%)  
p.H393Qfs\*3 (0.0022%)  
p.A1194E (0.0022%)  
p.N968S (0.0022%)  
p.F1095Lfs\*22 (0.0022%)  
p.G1250Sfs\*14 (0.0022%)  
p.S704\* (0.0022%)  
p.L1136R (0.0022%)  
p.E1110Dfs\*23 (0.0022%)  
p.A117= (0.0022%)  
p.D806N (0.0022%)  
p.S10L (0.0022%)  
p.N325K (0.0022%)  
p.S398\* (0.0022%)  
p.F1254\_S1256del (0.0022%)  
p.A402Sfs\*5 (0.0022%)  
p.E601\* (0.0022%)  
p.G570Afs\*10 (0.0022%)  
p.Q280P (0.0022%)  
p.A858Lfs\*16 (0.0022%)  
p.Y1359Ifs\*18 (0.0022%)  
p.P614L (0.0022%)  
p.I1217Kfs\*31 (0.0022%)  
p.S1077Qfs\*5 (0.0022%)  
p.R825\* (0.0022%)  
p.L838Rfs\*24 (0.0022%)  
p.Q345= (0.0022%)  
p.R1385K (0.0022%)  
p.L1491= (0.0022%)  
p.L1489S (0.0022%)  
p.N1125\* (0.0022%)  
p.N1125D (0.0022%)  
p.L1409Yfs\*4 (0.0022%)  
p.C1012G (0.0022%)  
p.I216N (0.0022%)  
p.R273Efs\*39 (0.0022%)  
p.D1388G (0.0022%)  
p.G222Dfs\*4 (0.0022%)  
p.F1462V (0.0022%)  
p.Y1276Lfs\*8 (0.0022%)  
p.L972Ffs\*32 (0.0022%)  
p.C1437F (0.0022%)  
p.S497Ffs\*60 (0.0022%)  
p.E1419Q (0.0022%)  
p.S602Rfs\*55 (0.0022%)  
p.L380Ffs\*2 (0.0022%)  
p.S371Lfs\*11 (0.0022%)  
p.L1491H (0.0022%)  
p.S1455P (0.0022%)  
p.G1436D (0.0022%)  
p.M1269R (0.0022%)  
p.S1039L (0.0022%)  
p.S1002F (0.0022%)  
p.K1371E (0.0022%)  
p.I1218Sfs\*29 (0.0022%)  
p.H1058Tfs\*7 (0.0022%)  
p.P298Nfs\*15 (0.0022%)  
p.D926Tfs\*11 (0.0022%)  
p.H832Pfs\*31 (0.0022%)  
p.E1159Afs\*4 (0.0022%)  
p.R1496I (0.0022%)  
p.K1037Tfs\*44 (0.0022%)  
p.I1347del (0.0022%)  
p.F1389Lfs\*33 (0.0022%)  
p.V579Efs\*11 (0.0022%)  
p.E504Rfs\*37 (0.0022%)  
p.Y317\* (0.0022%)  
p.Y317N (0.0022%)  
p.A1459Gfs\*5 (0.0022%)  
p.E771Vfs\*29 (0.0022%)  
p.R288\* (0.0022%)  
p.L1156Pfs\*7 (0.0022%)  
p.V873I (0.0022%)  
p.Y736\* (0.0022%)  
p.M312L (0.0022%)  
p.C710R (0.0022%)  
p.Y1258Ifs\*11 (0.0022%)  
p.R313Afs\*13 (0.0022%)  
p.K410Sfs\*26 (0.0022%)  
p.W1433\* (0.0022%)  
p.Y1167Tfs\*5 (0.0022%)  
p.Q624Pfs\*22 (0.0022%)  
p.P1506S (0.0022%)  
p.S1434Tfs\*8 (0.0022%)  
p.Q1352L (0.0022%)  
p.N1279Kfs\*5 (0.0022%)  
p.R516Kfs\*25 (0.0022%)  
p.I1386Vfs\*25 (0.0022%)  
p.W1433S (0.0022%)  
p.R1385Kfs\*37 (0.0022%)  
p.E1137\* (0.0022%)  
p.V1045Lfs\*11 (0.0022%)  
p.G172Rfs\*7 (0.0022%)  
p.E1419= (0.0022%)  
p.P1034S (0.0022%)  
p.S976F (0.0022%)  
p.S984\* (0.0022%)  
p.T779Qfs\*3 (0.0022%)  
p.S1281Lfs\*7 (0.0022%)  
p.C1488del (0.0022%)  
p.T1148Ifs\*24 (0.0022%)  
p.Q1247Sfs\*26 (0.0022%)  
p.G102R (0.0022%)  
p.N1125Sfs\*24 (0.0022%)  
p.R1278Kfs\*5 (0.0022%)  
p.R208P (0.0022%)  
p.E1184Kfs\*6 (0.0022%)  
p.D510Efs\*31 (0.0022%)  
p.L358V (0.0022%)  
p.S989Yfs\*14 (0.0022%)  
p.S292\* (0.0022%)  
p.I703Mfs\*34 (0.0022%)  
p.C463S (0.0022%)  
p.D875Mfs\*31 (0.0022%)  
p.Q1406\* (0.0022%)  
p.R1013Kfs\*23 (0.0022%)  
p.F1149Kfs\*3 (0.0022%)  
p.R307Vfs\*5 (0.0022%)  
p.M1442R (0.0022%)  
p.S1151Vfs\*9 (0.0022%)  
p.P1206Sfs\*6 (0.0022%)  
p.S1455F (0.0022%)  
p.L316R (0.0022%)  
p.E672Rfs\*14 (0.0022%)  
p.N325Lfs\*3 (0.0022%)  
p.T285K (0.0022%)  
p.L380Kfs\*4 (0.0022%)  
p.S281Efs\*20 (0.0022%)  
p.R399Kfs\*8 (0.0022%)  
p.L328P (0.0022%)  
p.K959Nfs\*46 (0.0022%)  
p.N1456Qfs\*8 (0.0022%)  
p.Q1007Hfs\*74 (0.0022%)  
p.L1353Yfs\*24 (0.0022%)  
p.K337Tfs\*24 (0.0022%)  
p.G570Lfs\*5 (0.0022%)  
p.V569Wfs\*6 (0.0022%)  
p.V863A (0.0022%)  
p.S1080\* (0.0022%)  
p.E716\* (0.0022%)  
p.L319Pfs\*2 (0.0022%)  
p.R480Kfs\*7 (0.0022%)  
p.A240V (0.0022%)  
p.R483Kfs\*10 (0.0022%)  
p.K1041Q (0.0022%)  
p.D1040Ifs\*42 (0.0022%)  
p.C1437S (0.0022%)  
p.I1217Nfs\*23 (0.0022%)  
p.A801T (0.0022%)  
p.N749Ifs\*12 (0.0022%)  
p.Q1352Hfs\*24 (0.0022%)  
p.R273Kfs\*40 (0.0022%)  
p.P962Dfs\*7 (0.0022%)  
p.I761Nfs\*3 (0.0022%)  
p.G712Rfs\*24 (0.0022%)  
p.Q1364\_H1367del (0.0022%)  
p.G1266R (0.0022%)  
p.K1504Sfs\*56 (0.0022%)  
p.D461Efs\*26 (0.0022%)  
p.P769S (0.0022%)  
p.D1000Sfs\*81 (0.0022%)  
p.N309Tfs\*6 (0.0022%)  
p.Q677Hfs\*6 (0.0022%)  
p.Y1237Vfs\*2 (0.0022%)  
p.R306Qfs\*8 (0.0022%)  
p.S1255F (0.0022%)  
p.E1182\* (0.0022%)  
p.L1477Ffs\*46 (0.0022%)  
p.H419Pfs\*7 (0.0022%)  
p.R1428Vfs\*7 (0.0022%)  
p.P276Qfs\*36 (0.0022%)  
p.R533Ifs\*23 (0.0022%)  
p.E708Nfs\*17 (0.0022%)  
p.R186Gfs\*4 (0.0022%)  
p.I1347Sfs\*3 (0.0022%)  
p.M1269Nfs\*4 (0.0022%)  
p.R364G (0.0022%)  
p.L707Cfs\*19 (0.0022%)  
p.S844Pfs\*13 (0.0022%)  
p.D1215Gfs\*26 (0.0022%)  
p.Y317\_L319del (0.0022%)  
p.L1052Cfs\*30 (0.0022%)  
p.F1462L (0.0022%)  
p.S1049Qfs\*33 (0.0022%)  
p.E1118\* (0.0022%)  
p.I1106Yfs\*4 (0.0022%)  
p.S537Qfs\*3 (0.0022%)  
p.Y1319Lfs\*6 (0.0022%)  
p.H393Q (0.0022%)  
p.H393Lfs\*44 (0.0022%)  
p.Q886Afs\*18 (0.0022%)  
p.R1355Wfs\*7 (0.0022%)  
p.D1084N (0.0022%)  
p.K1234\_D1240del (0.0022%)  
p.E708\* (0.0022%)  
p.Q1247\* (0.0022%)  
p.A653Gfs\*44 (0.0022%)  
p.S588Ffs\*3 (0.0022%)  
p.Q1007Rfs\*75 (0.0022%)  
p.A230Vfs\*69 (0.0022%)  
p.R678Efs\*19 (0.0022%)  
p.M415Qfs\*20 (0.0022%)  
p.P301Lfs\*11 (0.0022%)  
p.S822Qfs\*15 (0.0022%)  
p.E1117\* (0.0022%)  
p.F1046Lfs\*36 (0.0022%)  
p.Y1237\_T1241del (0.0022%)  
p.Y544Ffs\*17 (0.0022%)  
p.R1368G (0.0022%)  
p.R1496T (0.0022%)  
p.L1354Tfs\*9 (0.0022%)  
p.G1250R (0.0022%)  
p.N1348Kfs\*31 (0.0022%)  
p.H1303L (0.0022%)  
p.L717Sfs\*9 (0.0022%)  
p.E1184\* (0.0022%)  
p.P251Qfs\*5 (0.0022%)  
p.I1413Nfs\*7 (0.0022%)  
p.E1404Rfs\*16 (0.0022%)  
p.P251T (0.0022%)  
p.Q1492Nfs\*12 (0.0022%)  
p.V1432A (0.0022%)  
p.L1491Sfs\*3 (0.0022%)  
p.S394N (0.0022%)  
p.G1407Dfs\*15 (0.0022%)  
p.V569I (0.0022%)  
p.K1119\* (0.0022%)  
p.T428Yfs\*3 (0.0022%)  
p.P769Sfs\*3 (0.0022%)  
p.R306Pfs\*7 (0.0022%)  
p.I1386\_A1387insG (0.0022%)  
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p.C349Lfs\*14 (0.0022%)  
p.N206Kfs\*13 (0.0022%)  
p.R307P (0.0022%)  
p.D630Rfs\*16 (0.0022%)  
p.F341L (0.0022%)  
p.E1441\* (0.0022%)  
p.E1187del (0.0022%)  
p.E672V (0.0022%)  
p.E672Kfs\*13 (0.0022%)  
p.Y648\* (0.0022%)  
p.Q870\* (0.0022%)  
p.L1360Sfs\*17 (0.0022%)  
p.S292Ffs\*9 (0.0022%)  
p.V218Sfs\*2 (0.0022%)  
p.L1375\_D1378del (0.0022%)  
p.C1314Vfs\*2 (0.0022%)  
p.L1156Sfs\*2 (0.0022%)  
p.G1401Wfs\*19 (0.0022%)  
p.E536Rfs\*21 (0.0022%)  
p.F539S (0.0022%)  
p.F1462del (0.0022%)  
p.L675Xfs\*? (0.0022%)  
p.R110Xfs\*? (0.0022%)  
p.N346Kfs\*39 (0.0022%)  
p.L217Xfs\*? (0.0022%)  
p.P1311Xfs\*? (0.0022%)  
p.A1467Ifs\*51 (0.0022%)  
p.D1038Tfs\*44 (0.0022%)  
p.K1234Nfs\*11 (0.0022%)  
p.W197Lfs\*11 (0.0022%)  
p.L707Vfs\*29 (0.0022%)  
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p.Q1408Nfs\*14 (0.0022%)  
p.D1040Vfs\*42 (0.0022%)  
p.K1041Nfs\*40 (0.0022%)  
p.P1011Sfs\*25 (0.0022%)  
p.E1035\* (0.0022%)  
p.L316P (0.0022%)  
p.K310E (0.0022%)  
p.R249H (0.0022%)  
p.K1024R (0.0022%)  
p.Y1276Mfs\*12 (0.0022%)  
p.Y1237N (0.0022%)  
p.R790M (0.0022%)  
p.L228Efs\*6 (0.0022%)  
p.I1377F (0.0022%)  
p.R248Lfs\*12 (0.0022%)  
p.Q525\* (0.0022%)  
p.S1434R (0.0022%)  
p.M1442V (0.0022%)  
p.L658Wfs\*9 (0.0022%)  
p.V308Gfs\*10 (0.0022%)  
p.N406\* (0.0022%)  
p.G715Rfs\*21 (0.0022%)  
p.N739Kfs\*9 (0.0022%)  
p.Q1022Afs\*13 (0.0022%)  
p.N749Lfs\*5 (0.0022%)  
p.C349R (0.0022%)  
p.A241Cfs\*60 (0.0022%)  
p.D780N (0.0022%)  
p.Q1220Lfs\*27 (0.0022%)  
p.A1332Gfs\*6 (0.0022%)  
p.Y1276\* (0.0022%)  
p.L1189\* (0.0022%)  
p.I561Nfs\*15 (0.0022%)  
p.S810\* (0.0022%)  
p.N1363Tfs\*14 (0.0022%)  
p.R930Tfs\*10 (0.0022%)  
p.T542Ifs\*14 (0.0022%)  
p.F1415C (0.0022%)  
p.E1242Gfs\*2 (0.0022%)  
p.E581Dfs\*9 (0.0022%)  
p.Q1044\* (0.0022%)  
p.A694V (0.0022%)  
p.N226Efs\*8 (0.0022%)  
p.P1471S (0.0022%)  
p.N1069S (0.0022%)  
p.L319V (0.0022%)  
p.M1309Cfs\*27 (0.0022%)  
p.L967\* (0.0022%)  
p.L380\* (0.0022%)  
p.L765Vfs\*6 (0.0022%)  
p.Q886\* (0.0022%)  
p.R1509C (0.0022%)  
p.A1387P (0.0022%)  
p.R313\_L319del (0.0022%)  
p.S1472Ifs\*51 (0.0022%)  
p.F360Lfs\*2 (0.0022%)  
p.L764\* (0.0022%)  
p.W201R (0.0022%)  
p.K913Ifs\*15 (0.0022%)  
p.I1413N (0.0022%)  
p.A1396V (0.0022%)  
p.E1286V (0.0022%)  
p.P938T (0.0022%)  
p.N1456Ifs\*4 (0.0022%)  
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p.R8Pfs\*16 (0.0022%)  
p.C443Wfs\*10 (0.0022%)  
p.I1365N (0.0022%)  
p.L1122= (0.0022%)  
p.S1143G (0.0022%)  
p.I761\* (0.0022%)  
p.L1477Ifs\*14 (0.0022%)  
p.S935\* (0.0022%)  
p.V1168Xfs\*9 (0.0022%)  
p.N1320K (0.0022%)  
p.I1295Kfs\*13 (0.0022%)  
p.T1145Kfs\*4 (0.0022%)  
p.Q1261\* (0.0022%)  
p.S940Kfs\*64 (0.0022%)  
p.K1003\* (0.0022%)  
p.L1268\* (0.0022%)  
p.I741Hfs\*7 (0.0022%)  
p.R1487Vfs\*2 (0.0022%)  
p.D510Gfs\*31 (0.0022%)  
p.T1267P (0.0022%)  
p.V274Ffs\*38 (0.0022%)  
p.P286Tfs\*14 (0.0022%)  
p.A1233Qfs\*7 (0.0022%)  
p.I1204Sfs\*7 (0.0022%)  
p.T420Ifs\*17 (0.0022%)  
p.V719Efs\*4 (0.0022%)  
p.E740Xfs\*1 (0.0022%)  
p.Y791Vfs\*2 (0.0022%)  
p.S1499\* (0.0022%)  
p.L1122\* (0.0022%)  
p.S1256del (0.0022%)  
p.S427Lfs\*9 (0.0022%)  
p.L1384P (0.0022%)  
p.V1420G (0.0022%)  
p.K337E (0.0022%)  
p.M472Ifs\*14 (0.0022%)  
p.S326P (0.0022%)  
p.S431Rfs\*7 (0.0022%)  
p.S939\_K953delins\* (0.0022%)  
p.I322L (0.0022%)  
p.Q681\* (0.0022%)  
p.E950Afs\*53 (0.0022%)  
p.S297\* (0.0022%)  
p.C347G (0.0022%)  
p.S1043Pfs\*39 (0.0022%)  
p.Y317H (0.0022%)  
p.A1387E (0.0022%)  
p.F327Sfs\*2 (0.0022%)  
p.Q965\* (0.0022%)  
p.D1040Rfs\*2 (0.0022%)  
p.R51H (0.0022%)  
p.R64T (0.0022%)  
p.S22P (0.0022%)  
p.R1275\* (0.011%)  
p.R179H (0.0088%)  
p.L560F (0.0066%)  
p.E859D (0.0066%)  
p.G89S (0.0066%)  
p.R209H (0.0066%)  
p.R291P (0.0066%)  
p.P37= (0.0044%)  
p.S131F (0.0044%)  
p.E1371K (0.0022%)  
p.E1154K (0.0044%)  
p.R311H (0.0044%)  
p.T680K (0.0044%)  
p.D525N (0.0044%)  
p.E802K (0.0044%)  
p.D951= (0.0044%)  
p.K1491R (0.0044%)  
p.E296K (0.0044%)  
p.Q1428\* (0.0044%)  
p.Q1482K (0.0044%)  
p.G22R (0.0044%)  
p.V349I (0.0044%)  
p.H281D (0.0044%)  
p.G940D (0.0044%)  
p.E1110D (0.0044%)  
p.P1215T (0.0044%)  
p.N1497K (0.0044%)  
p.S1487L (0.0044%)  
p.R1214H (0.0044%)  
p.A206V (0.0044%)  
p.D525Y (0.0044%)  
p.E570D (0.0044%)  
p.G845= (0.0022%)  
p.Y1282= (0.0022%)  
p.G1121D (0.0022%)  
p.R1209P (0.0022%)  
p.A1601T (0.0022%)  
p.A851T (0.0022%)  
p.V681F (0.0022%)  
p.S1332N (0.0022%)  
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p.E780D (0.0022%)  
p.P213L (0.0022%)  
p.E576Q (0.0022%)  
p.F856= (0.0022%)  
p.D239H (0.0022%)  
p.K1612= (0.0022%)  
p.E1409D (0.0022%)  
p.I1378= (0.0022%)  
p.I1379N (0.0022%)  
p.E1241Q (0.0022%)  
p.F1271\_M1273delinsL (0.0022%)  
p.F1127L (0.0022%)  
p.R551Q (0.0022%)  
p.M301I (0.0022%)  
p.V476A (0.0022%)  
p.K748= (0.0022%)  
p.D768Y (0.0022%)  
p.E1340V (0.0022%)  
p.R317T (0.0022%)  
p.N873S (0.0022%)  
p.V163L (0.0022%)  
p.E1299K (0.0022%)  
p.H368Q (0.0022%)  
p.R806= (0.0022%)  
p.N1544= (0.0022%)  
p.R186K (0.0022%)  
p.D1529E (0.0022%)  
p.R1209Q (0.0022%)  
p.Q778H (0.0022%)  
p.L1048= (0.0022%)  
p.G843R (0.0022%)  
p.Q286= (0.0022%)  
p.R121W (0.0022%)  
p.R360K (0.0022%)  
p.I1194= (0.0022%)  
p.R311S (0.0022%)  
p.I839T (0.0022%)  
p.L1169= (0.0022%)  
p.G1125V (0.0022%)  
p.L6V (0.0022%)  
p.E1028G (0.0022%)  
p.A900T (0.0022%)  
p.L560= (0.0022%)  
p.G616V (0.0022%)  
p.P1542Hfs\*16 (0.0022%)  
p.K1285N (0.0022%)  
p.H458Q (0.0022%)  
p.G939A (0.0022%)  
p.R1275Q (0.0022%)  
p.D768E (0.0022%)  
p.I393N (0.0022%)  
p.W288\* (0.0022%)  
p.T319\* (0.1035%)  
p.R130Q (0.0286%)  
p.T319Kfs\*24 (0.022%)  
p.R233\* (0.022%)  
p.R130\* (0.0198%)  
p.Q171\* (0.022%)  
p.Q245\* (0.0176%)  
p.H93R (0.0198%)  
p.C124S (0.0198%)  
p.N329Kfs\*14 (0.0154%)  
p.Q298\* (0.0132%)  
p.K128N (0.0132%)  
p.D92Y (0.0154%)  
p.R130G (0.0132%)  
p.I33del (0.0132%)  
p.C136Mfs\*44 (0.0132%)  
p.D107N (0.0132%)  
p.Y16\* (0.0088%)  
p.D92H (0.011%)  
p.R130P (0.011%)  
p.H61R (0.011%)  
p.Y88\* (0.011%)  
p.A126S (0.011%)  
p.Y155C (0.0088%)  
p.C136R (0.011%)  
p.D24Rfs\*20 (0.0066%)  
p.Y68H (0.0088%)  
p.K263N (0.0088%)  
p.L182\* (0.0088%)  
p.L108R (0.0088%)  
p.D92E (0.0088%)  
p.R130\_T131delinsP (0.0088%)  
p.A126D (0.0088%)  
p.M134I (0.0088%)  
p.Y174\* (0.0088%)  
p.K60Sfs\*39 (0.0088%)  
p.P95L (0.0088%)  
p.C136Y (0.0088%)  
p.Y68N (0.0044%)  
p.L139= (0.0066%)  
p.D24N (0.0066%)  
p.E256\* (0.0066%)  
p.L23V (0.0066%)  
p.G129R (0.0066%)  
p.D24G (0.0066%)  
p.A126V (0.0066%)  
p.D22Gfs\*4 (0.0066%)  
p.D92V (0.0066%)  
p.I253Nfs\*45 (0.0066%)  
p.D109\* (0.0066%)  
p.V54\_R55delinsG (0.0066%)  
p.Y174D (0.0066%)  
p.C250Sfs\*4 (0.0066%)  
p.C105Vfs\*8 (0.0066%)  
p.K13\* (0.0066%)  
p.N334Tfs\*10 (0.0066%)  
p.L112Q (0.0066%)  
p.D52Vfs\*2 (0.0066%)  
p.T319Nfs\*6 (0.0066%)  
p.Q171R (0.0066%)  
p.T321Qfs\*23 (0.0066%)  
p.I135V (0.0066%)  
p.R14Ifs\*8 (0.0022%)  
p.V191\_S207del (0.0022%)  
p.I135= (0.0044%)  
p.S294Kfs\*4 (0.0022%)  
p.S287\* (0.0044%)  
p.S170I (0.0022%)  
p.G132D (0.0022%)  
p.E256Sfs\*8 (0.0022%)  
p.V133Efs\*2 (0.0044%)  
p.V290Sfs\*8 (0.0044%)  
p.M35V (0.0044%)  
p.R234L (0.0044%)  
p.D268E (0.0044%)  
p.S227F (0.0044%)  
p.A151D (0.0044%)  
p.A126G (0.0044%)  
p.I101Nfs\*6 (0.0022%)  
p.G129E (0.0044%)  
p.E73K (0.0044%)  
p.H259Tfs\*7 (0.0044%)  
p.H123R (0.0044%)  
p.D326E (0.0044%)  
p.D326Efs\*5 (0.0044%)  
p.A328Sfs\*3 (0.0044%)  
p.I50Sfs\*9 (0.0044%)  
p.H123Y (0.0044%)  
p.E114Dfs\*17 (0.0044%)  
p.R234Pfs\*9 (0.0044%)  
p.V166Sfs\*14 (0.0044%)  
p.A126T (0.0044%)  
p.I67T (0.0044%)  
p.K344\* (0.0044%)  
p.F341\* (0.0044%)  
p.G127E (0.0044%)  
p.K221R (0.0044%)  
p.V222\_K223delinsE (0.0044%)  
p.Y225Ifs\*28 (0.0044%)  
p.V45Yfs\*9 (0.0044%)  
p.Q17\* (0.0044%)  
p.V275\* (0.0044%)  
p.L57Xfs\*6 (0.0044%)  
p.N48Tfs\*6 (0.0044%)  
p.Y178Lfs\*2 (0.0044%)  
p.I33S (0.0044%)  
p.Y65\* (0.0044%)  
p.R14Nfs\*9 (0.0044%)  
p.W274\* (0.0044%)  
p.E235\* (0.0044%)  
p.D331Tfs\*13 (0.0044%)  
p.C296\* (0.0044%)  
p.H196Tfs\*3 (0.0044%)  
p.P248Tfs\*5 (0.0044%)  
p.P103Tfs\*4 (0.0044%)  
p.Q219\* (0.0044%)  
p.K13E (0.0044%)  
p.E242Xfs\*? (0.0022%)  
p.Q261\* (0.0044%)  
p.Y46\* (0.0044%)  
p.L100\_K102del (0.0044%)  
p.D268\_F279delinsVGQNVSLLGKYI (0.0044%)  
p.S338Lfs\*6 (0.0044%)  
p.F21Wfs\*24 (0.0044%)  
p.N292Mfs\*15 (0.0044%)  
p.D24del (0.0044%)  
p.G132S (0.0044%)  
p.N311Kfs\*2 (0.0044%)  
p.N63Kfs\*11 (0.0044%)  
p.N323Kfs\*2 (0.0044%)  
p.Y336\* (0.0044%)  
p.E99\* (0.0044%)  
p.E242\* (0.0044%)  
p.A328Xfs\*15 (0.0044%)  
p.R161K (0.0044%)  
p.R161I (0.0044%)  
p.R130L (0.0044%)  
p.S59\* (0.0022%)  
p.K330N (0.0022%)  
p.G20A (0.0022%)  
p.E157Pfs\*7 (0.0022%)  
p.N311Tfs\*7 (0.0022%)  
p.D109H (0.0022%)  
p.I32S (0.0022%)  
p.S226A (0.0022%)  
p.C124G (0.0022%)  
p.M264V (0.0022%)  
p.G293R (0.0022%)  
p.V9I (0.0022%)  
p.H196Y (0.0022%)  
p.D326Y (0.0022%)  
p.K267Rfs\*9 (0.0022%)  
p.N48I (0.0022%)  
p.V133Wfs\*48 (0.0022%)  
p.H123D (0.0022%)  
p.F347L (0.0022%)  
p.V217G (0.0022%)  
p.L325F (0.0022%)  
p.Y76\* (0.0022%)  
p.L139F (0.0022%)  
p.H93L (0.0022%)  
p.I135Nfs\*12 (0.0022%)  
p.K183Efs\*6 (0.0022%)  
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p.Y176Ifs\*5 (0.0022%)  
p.G293V (0.0022%)  
p.G230R (0.0022%)  
p.I50T (0.0022%)  
p.E73Kfs\*4 (0.0022%)  
p.E73Dfs\*25 (0.0022%)  
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p.G293Efs\*14 (0.0022%)  
p.Q261Tfs\*37 (0.0022%)  
p.Q87\* (0.0022%)  
p.I135K (0.0022%)  
p.F257Vfs\*41 (0.0022%)  
p.N117Kfs\*9 (0.0022%)  
p.H259Qfs\*7 (0.0022%)  
p.L193Vfs\*7 (0.0022%)  
p.L146\* (0.0022%)  
p.D326Efs\*4 (0.0022%)  
p.D24A (0.0022%)  
p.G165E (0.0022%)  
p.E40\* (0.0022%)  
p.E114Gfs\*10 (0.0022%)  
p.C250Wfs\*2 (0.0022%)  
p.R308H (0.0022%)  
p.M199del (0.0022%)  
p.H64\_Y65del (0.0022%)  
p.G132V (0.0022%)  
p.S338C (0.0022%)  
p.P89T (0.0022%)  
p.T319fs\*? (0.0022%)  
p.R47Xfs\*8 (0.0022%)  
p.R55Xfs\*44 (0.0022%)  
p.N48S (0.0022%)  
p.I253N (0.0022%)  
p.K266\* (0.0022%)  
p.K342N (0.0022%)  
p.T319del (0.0022%)  
p.K260\* (0.0022%)  
p.L140\* (0.0022%)  
p.D19Gfs\*25 (0.0022%)  
p.Y88C (0.0022%)  
p.F215S (0.0022%)  
p.K327\* (0.0022%)  
p.E314X\*9 (0.0022%)  
p.P339Qfs\*3 (0.0022%)  
p.L108\_A151delinsP (0.0022%)  
p.P367Hfs\*50 (0.0022%)  
p.Y336Tfs\*8 (0.0022%)  
p.V45Ifs\*6 (0.0022%)  
p.H61Q (0.0022%)  
p.E201Dfs\*40 (0.0022%)  
p.K327Xfs\*16 (0.0022%)  
p.E18Rfs\*26 (0.0022%)  
p.F258Y (0.0022%)  
p.F258L (0.0022%)  
p.I32fs\*? (0.0022%)  
p.M198K (0.0022%)  
p.S10R (0.0022%)  
p.H123Q (0.0022%)  
p.M1\_K267del (0.0022%)  
p.C296Yfs\*12 (0.0022%)  
p.I50N (0.0022%)  
p.Q214\* (0.0022%)  
p.D324Gfs\*3 (0.0022%)  
p.K144Qfs\*36 (0.0022%)  
p.P204Qfs\*17 (0.0022%)  
p.K144fs\*? (0.0022%)  
p.H61Tfs\*36 (0.0022%)  
p.F215\* (0.0022%)  
p.G132del (0.0022%)  
p.N329Kfs\*2 (0.0022%)  
p.T321Nfs\*4 (0.0022%)  
p.C211Lfs\*32 (0.0022%)  
p.I32Lfs\*22 (0.0022%)  
p.E43Gfs\*9 (0.0022%)  
p.W111\* (0.0022%)  
p.Y240\* (0.0022%)  
p.R15fs\*? (0.0022%)  
p.L25S (0.0022%)  
p.T319Ffs\*2 (0.0022%)  
p.Y16Sfs\*27 (0.0022%)  
p.R15\* (0.0022%)  
p.H61Lfs\*38 (0.0022%)  
p.S179Mfs\*11 (0.0022%)  
p.R14Xfs\*10 (0.0022%)  
p.H118Mfs\*16 (0.0022%)  
p.P95Sfs\*2 (0.0022%)  
p.D236Tfs\*20 (0.0022%)  
p.T160S (0.0022%)  
p.C250Rfs\*7 (0.0022%)  
p.I4Xfs\*20 (0.0022%)  
p.F243\_P246delinsS (0.0022%)  
p.E242Dfs\*23 (0.0022%)  
p.L25fs\*? (0.0022%)  
p.R234Tfs\*31 (0.0022%)  
p.C218\* (0.0022%)  
p.Y176C (0.0022%)  
p.S229\* (0.0022%)  
p.Y16\_Q17delins\* (0.0022%)  
p.Y27D (0.0022%)  
p.E307K (0.0022%)  
p.C105Y (0.0022%)  
p.Q17Ffs\*8 (0.0022%)  
p.C296G (0.0022%)  
p.H93D (0.0022%)  
p.T348Qfs\*4 (0.0022%)  
p.V365I (0.0022%)  
p.F273S (0.0022%)  
p.G251Vfs\*6 (0.0022%)  
p.V119A (0.0022%)  
p.I67R (0.0022%)  
p.K13Rfs\*10 (0.0022%)  
p.K6Nfs\*19 (0.0022%)  
p.C71F (0.0022%)  
p.G165\_\*404del (0.0022%)  
p.I253\_F258del (0.0022%)  
p.Q245Lfs\*6 (0.0022%)  
p.I135del (0.0022%)  
p.N329Kfs\*12 (0.0022%)  
p.K237\_Y240delinsN (0.0022%)  
p.T167P (0.0022%)  
p.D92N (0.0022%)  
p.R55S (0.0022%)  
p.R159C (0.0022%)  
p.Y138D (0.0022%)  
p.S385\* (0.0022%)  
p.C105W (0.0022%)  
p.R172Tfs\*10 (0.0022%)  
p.H118Vfs\*10 (0.0022%)  
p.N323Mfs\*21 (0.0022%)  
p.S338\* (0.0022%)  
p.M35L (0.0022%)  
p.A121P (0.0022%)  
p.R74Nfs\*25 (0.0022%)  
p.A72= (0.0022%)  
p.K60fs\*9 (0.0022%)  
p.Q17Rfs\*26 (0.0022%)  
p.E256K (0.0022%)  
p.K197Rfs\*2 (0.0022%)  
p.S59P (0.0022%)  
p.L247Ffs\*6 (0.0022%)  
p.E314\* (0.0022%)  
p.S309= (0.0066%)  
p.E135Q (0.0066%)  
p.A416T (0.0066%)  
p.L1516V (0.0044%)  
p.K1669= (0.0044%)  
p.T132= (0.0044%)  
p.E1269K (0.0044%)  
p.N1461K (0.0044%)  
p.K50Q (0.0022%)  
p.A1441T (0.0022%)  
p.S774= (0.0022%)  
p.I777= (0.0022%)  
p.I174= (0.0022%)  
p.E1497Q (0.0022%)  
p.S656R (0.0022%)  
p.E1235= (0.0022%)  
p.E879Q (0.0022%)  
p.S287W (0.0022%)  
p.L1300F (0.0022%)  
p.S450= (0.0022%)  
p.I51= (0.0022%)  
p.N327= (0.0022%)  
p.G1010S (0.0022%)  
p.I512= (0.0022%)  
p.L1080= (0.0022%)  
p.V187I (0.0088%)  
p.V713I (0.0066%)  
p.F708Y (0.0066%)  
p.P699T (0.0066%)  
p.T888M (0.0066%)  
p.L607I (0.0066%)  
p.R1169Q (0.0066%)  
p.E1202Q (0.0044%)  
p.S1440C (0.0044%)  
p.E691D (0.0044%)  
p.R1067W (0.0044%)  
p.K1281N (0.0044%)  
p.I222M (0.0044%)  
p.S397Y (0.0044%)  
p.R1417W (0.0044%)  
p.R1159H (0.0044%)  
p.F613L (0.0044%)  
p.G873A (0.0044%)  
p.G1347C (0.0044%)  
p.N802= (0.0044%)  
p.G1197V (0.0044%)  
p.R76H (0.0044%)  
p.G591W (0.0044%)  
p.P1074L (0.0044%)  
p.V659L (0.0044%)  
p.T84= (0.0044%)  
p.Q1023H (0.0044%)  
p.M934I (0.0044%)  
p.R1309Q (0.0044%)  
p.V573D (0.0044%)  
p.A155T (0.0044%)  
p.E1156K (0.0044%)  
p.V417I (0.0022%)  
p.D1121H (0.0022%)  
p.P673H (0.0022%)  
p.P401S (0.0022%)  
p.L963F (0.0022%)  
p.A764V (0.0022%)  
p.L1279F (0.0022%)  
p.E50K (0.0022%)  
p.L897= (0.0022%)  
p.S1341Afs\*56 (0.0022%)  
p.D523Y (0.0022%)  
p.H1369= (0.0022%)  
p.T834P (0.0022%)  
p.R1241W (0.0022%)  
p.V99M (0.0022%)  
p.M960I (0.0022%)  
p.V169= (0.0022%)  
p.S445L (0.0022%)  
p.N1085Kfs\*20 (0.0022%)  
p.F524L (0.0022%)  
p.E1176Q (0.0022%)  
p.E1175K (0.0022%)  
p.R586K (0.0022%)  
p.E1176\* (0.0022%)  
p.C745W (0.0022%)  
p.N946= (0.0022%)  
p.L425= (0.0022%)  
p.W606\* (0.0022%)  
p.Q356P (0.0022%)  
p.W1271R (0.0022%)  
p.H405D (0.0022%)  
p.I775T (0.0022%)  
p.N1210K (0.0022%)  
p.R1288H (0.0022%)  
p.V526A (0.0022%)  
p.K1116T (0.0022%)  
p.P581L (0.0022%)  
p.V1378L (0.0022%)  
p.A1068T (0.0022%)  
p.G510= (0.0022%)  
p.P13L (0.0022%)  
p.T850= (0.0022%)  
p.V529L (0.0022%)  
p.Q323R (0.0022%)  
p.A33T (0.0022%)  
p.P1095H (0.0022%)  
p.S1390L (0.0022%)  
p.E448\* (0.0022%)  
p.N961K (0.0022%)  
p.G322W (0.0022%)  
p.K438R (0.0022%)  
p.I418N (0.0022%)  
p.Q323H (0.0022%)  
p.R681P (0.0022%)  
p.I836T (0.0022%)  
p.G510A (0.0022%)  
p.T995M (0.0022%)  
p.T470Yfs\*21 (0.0022%)  
p.D1303Y (0.0022%)  
p.A570T (0.0022%)  
p.R518C (0.0022%)  
p.G740W (0.0022%)  
p.S402L (0.0198%)  
p.Q1272\* (0.0132%)  
p.Q83\* (0.0132%)  
p.Q1815Pfs\*4 (0.011%)  
p.I679Dfs\*21 (0.011%)  
p.E2748K (0.011%)  
p.R2450\* (0.0066%)  
p.Q2492\* (0.0088%)  
p.E648\* (0.0088%)  
p.R440\* (0.0088%)  
p.F1464L (0.0088%)  
p.E1816\* (0.0066%)  
p.Q1017\* (0.0088%)  
p.S2817F (0.0022%)  
p.E1333\* (0.0066%)  
p.F1479= (0.0066%)  
p.A219V (0.0066%)  
p.L508H (0.0044%)  
p.S365\* (0.0066%)  
p.R416\* (0.0066%)  
p.Y628Lfs\*6 (0.0066%)  
p.E775K (0.0066%)  
p.V2420Xfs\*? (0.0066%)  
p.E318Kfs\*11 (0.0066%)  
p.G1774E (0.0066%)  
p.T1923M (0.0066%)  
p.K1036\* (0.0066%)  
p.K1283Sfs\*22 (0.0066%)  
p.W1997Rfs\*15 (0.0066%)  
p.Y2285Tfs\*5 (0.0066%)  
p.Q1399\* (0.0066%)  
p.R2517\* (0.0066%)  
p.E1929Q (0.0022%)  
p.E540Q (0.0044%)  
p.Q589\* (0.0022%)  
p.I1641Sfs\*9 (0.0022%)  
p.C1960Lfs\*4 (0.0022%)  
p.Q2531E (0.0044%)  
p.S749\* (0.0044%)  
p.L2149F (0.0044%)  
p.N78Y (0.0044%)  
p.S2670\* (0.0044%)  
p.L43V (0.0044%)  
p.E1330Q (0.0022%)  
p.N2659I (0.0044%)  
p.P268\_L273del (0.0044%)  
p.Q400= (0.0044%)  
p.G751\* (0.0044%)  
p.L2394P (0.0044%)  
p.R2150G (0.0044%)  
p.R1000C (0.0044%)  
p.Q347\* (0.0044%)  
p.Q1341H (0.0044%)  
p.W1258\* (0.0044%)  
p.E1459\* (0.0022%)  
p.S1443L (0.0044%)  
p.R125Qfs\*39 (0.0044%)  
p.S1053\* (0.0044%)  
p.Q756H (0.0044%)  
p.L552F (0.0044%)  
p.E1570\* (0.0044%)  
p.R1306\* (0.0044%)  
p.P1084S (0.0044%)  
p.S139C (0.0044%)  
p.E1264K (0.0044%)  
p.K2664\* (0.0044%)  
p.Q1987Tfs\*22 (0.0044%)  
p.V2259= (0.0022%)  
p.P115L (0.0044%)  
p.G1133Kfs\*63 (0.0044%)  
p.Q1891L (0.0044%)  
p.W2075\* (0.0044%)  
p.D2427G (0.0044%)  
p.R1276\* (0.0044%)  
p.A771S (0.0044%)  
p.A771V (0.0044%)  
p.T2507I (0.0044%)  
p.W571\* (0.0044%)  
p.G2745R (0.0044%)  
p.N1984S (0.0044%)  
p.F394\* (0.0044%)  
p.L142\* (0.0044%)  
p.R1612T (0.0044%)  
p.R1250W (0.0044%)  
p.Q950\* (0.0044%)  
p.I117\_E126del (0.0022%)  
p.R1362\* (0.0044%)  
p.G751R (0.0044%)  
p.D2095H (0.0044%)  
p.V530I (0.0044%)  
p.R304\* (0.0044%)  
p.W561\* (0.0044%)  
p.S1838C (0.0044%)  
p.D1490N (0.0044%)  
p.K1913M (0.0044%)  
p.R1509Gfs\*62 (0.0044%)  
p.S340F (0.0044%)  
p.M1162Nfs\*33 (0.0044%)  
p.K615N (0.0044%)  
p.L1274V (0.0044%)  
p.G1502S (0.0044%)  
p.D1028Y (0.0044%)  
p.L2439\* (0.0044%)  
p.V212L (0.0044%)  
p.L21R (0.0044%)  
p.E318\* (0.0044%)  
p.T2061Ifs\*9 (0.0044%)  
p.D1657H (0.0044%)  
p.W1314\* (0.0044%)  
p.Q514Rfs\*43 (0.0044%)  
p.N1493I (0.0044%)  
p.P678= (0.0022%)  
p.E1734\* (0.0022%)  
p.S1896L (0.0022%)  
p.E279\* (0.0022%)  
p.F1275L (0.0022%)  
p.E2358\* (0.0022%)  
p.V1049= (0.0022%)  
p.Y1607Ifs\*17 (0.0022%)  
p.R1846= (0.0022%)  
p.Q853\* (0.0022%)  
p.R1204W (0.0022%)  
p.S168\* (0.0022%)  
p.E41Dfs\*3 (0.0022%)  
p.N2833= (0.0022%)  
p.D1322H (0.0022%)  
p.F2351L (0.0022%)  
p.D1672N (0.0022%)  
p.L2073V (0.0022%)  
p.E524Q (0.0022%)  
p.F2382= (0.0022%)  
p.Q209\* (0.0022%)  
p.G848= (0.0022%)  
p.R1695Q (0.0022%)  
p.L1587F (0.0022%)  
p.S1420\* (0.0022%)  
p.S1443\* (0.0022%)  
p.R2247= (0.0022%)  
p.L121P (0.0022%)  
p.T1648I (0.0022%)  
p.D301H (0.0022%)  
p.P2696Tfs\*14 (0.0022%)  
p.I1791M (0.0022%)  
p.S1352G (0.0022%)  
p.K609\* (0.0022%)  
p.R1970Sfs\*6 (0.0022%)  
p.P1084T (0.0022%)  
p.R366\* (0.0022%)  
p.P360A (0.0022%)  
p.I396= (0.0022%)  
p.I418= (0.0022%)  
p.D2059Rfs\*10 (0.0022%)  
p.L1153= (0.0022%)  
p.D1537H (0.0022%)  
p.H389R (0.0022%)  
p.L2100V (0.0022%)  
p.M707\_H712delinsN (0.0022%)  
p.E716V (0.0022%)  
p.L852= (0.0022%)  
p.N1151= (0.0022%)  
p.V2649Sfs\*9 (0.0022%)  
p.F1247Ifs\*18 (0.0022%)  
p.S1312\* (0.0022%)  
p.S2601\* (0.0022%)  
p.N78Ifs\*7 (0.0022%)  
p.F1287L (0.0022%)  
p.D2736H (0.0022%)  
p.K40R (0.0022%)  
p.D2375H (0.0022%)  
p.C1016Xfs\*4 (0.0022%)  
p.S2586L (0.0022%)  
p.R125P (0.0022%)  
p.S361Kfs\*17 (0.0022%)  
p.L529P (0.0022%)  
p.Q682\* (0.0022%)  
p.E163Dfs\*2 (0.0022%)  
p.E163Gfs\*2 (0.0022%)  
p.V2259E (0.0022%)  
p.V2259L (0.0022%)  
p.K2595Sfs\*5 (0.0022%)  
p.C1032\* (0.0022%)  
p.P698R (0.0022%)  
p.L2330Cfs\*16 (0.0022%)  
p.E1894Q (0.0022%)  
p.A1716Lfs\*4 (0.0022%)  
p.D176E (0.0022%)  
p.Q1447H (0.0022%)  
p.L298= (0.0022%)  
p.S1354Pfs\*24 (0.0022%)  
p.Q2324\* (0.0022%)  
p.R1828Q (0.0022%)  
p.Y2285\* (0.0022%)  
p.F1740L (0.0022%)  
p.N2679S (0.0022%)  
p.G2052Kfs\*7 (0.0022%)  
p.L704Sfs\*14 (0.0022%)  
p.D283Y (0.0022%)  
p.E2633K (0.0022%)  
p.I2681V (0.0022%)  
p.R659W (0.0022%)  
p.R2832H (0.0022%)  
p.Q554\* (0.0022%)  
p.R2119Qfs\*10 (0.0022%)  
p.W1048\* (0.0022%)  
p.W777Y (0.0022%)  
p.E1356Tfs\*19 (0.0022%)  
p.R2637\* (0.0022%)  
p.E524\* (0.0022%)  
p.R1306Q (0.0022%)  
p.V891Xfs\*10 (0.0022%)  
p.D176\_I177delinsV (0.0022%)  
p.E178Dfs\*22 (0.0022%)  
p.L923P (0.0022%)  
p.Y628Tfs\*3 (0.0022%)  
p.L179Yfs\*18 (0.0022%)  
p.Q1515\* (0.0022%)  
p.R2258\* (0.0022%)  
p.A2553Gfs\*3 (0.0022%)  
p.D724G (0.0022%)  
p.P2310Afs\*17 (0.0022%)  
p.Q181H (0.0022%)  
p.R1132C (0.0022%)  
p.V1146I (0.0022%)  
p.V141Ffs\*24 (0.0022%)  
p.K1014\* (0.0022%)  
p.E1796K (0.0022%)  
p.N222= (0.0022%)  
p.Q162\* (0.0022%)  
p.Y1784Mfs\*10 (0.0022%)  
p.Y2640Lfs\*18 (0.0022%)  
p.S82Xfs\*25 (0.0022%)  
p.N1903= (0.0022%)  
p.Q2582\* (0.0022%)  
p.S1954\* (0.0022%)  
p.N78Kfs\*29 (0.0022%)  
p.I526Qfs\*29 (0.0022%)  
p.T1245I (0.0022%)  
p.Q2636\* (0.0022%)  
p.Y1106H (0.0022%)  
p.S665Pfs\*23 (0.0022%)  
p.A2827T (0.0022%)  
p.T1589M (0.0022%)  
p.I417M (0.0022%)  
p.D1750N (0.0022%)  
p.Q950Rfs\*4 (0.0022%)  
p.E2327K (0.0022%)  
p.L423F (0.0022%)  
p.L1793= (0.0022%)  
p.L2660Xfs\*5 (0.0022%)  
p.I61V (0.0022%)  
p.Q531Hfs\*25 (0.0022%)  
p.V2148I (0.0022%)  
p.Q1370\* (0.0022%)  
p.Y2285fs\*1 (0.0022%)  
p.W696\* (0.0022%)  
p.C1117\* (0.0022%)  
p.A1224= (0.0022%)  
p.A2532T (0.0022%)  
p.L2461I (0.0022%)  
p.F51L (0.0022%)  
p.N2775Y (0.0022%)  
p.L1153Mfs\*4 (0.0022%)  
p.S1262C (0.0022%)  
p.G663R (0.0022%)  
p.Y1369\* (0.0022%)  
p.S1910Lfs\*15 (0.0022%)  
p.I988T (0.0022%)  
p.D1058Mfs\*4 (0.0022%)  
p.R1830Yfs\*23 (0.0022%)  
p.N1525Y (0.0022%)  
p.E19G (0.0022%)  
p.G629R (0.0022%)  
p.Q948\* (0.0022%)  
p.T770Xfs\*? (0.0022%)  
p.K1752N (0.0022%)  
p.K1429\* (0.0022%)  
p.S2435del (0.0022%)  
p.S536L (0.0022%)  
p.P504Xfs\*? (0.0022%)  
p.S340Xfs\*12 (0.0022%)  
p.A1098Xfs\*? (0.0022%)  
p.Q1515K (0.0022%)  
p.R192\* (0.0022%)  
p.V2622A (0.0022%)  
p.R897W (0.0022%)  
p.S1078\* (0.0022%)  
p.G2683A (0.0022%)  
p.S1329\* (0.0022%)  
p.V54F (0.0022%)  
p.L508= (0.0044%)  
p.E673K (0.0044%)  
p.S1154= (0.0044%)  
p.H914Q (0.0022%)  
p.V525= (0.0022%)  
p.E898\* (0.0022%)  
p.M900Nfs\*11 (0.0022%)  
p.E1209K (0.0022%)  
p.S307C (0.0022%)  
p.L782V (0.0022%)  
p.F78L (0.0022%)  
p.E547= (0.0022%)  
p.G1075= (0.0022%)  
p.Q205E (0.0022%)  
p.I1037= (0.0022%)  
p.D264= (0.0022%)  
p.S946R (0.0022%)  
p.D419V (0.0022%)  
p.D419Y (0.0022%)  
p.M1019V (0.0022%)  
p.I150= (0.0022%)  
p.P506T (0.0022%)  
p.R789S (0.0022%)  
p.M263V (0.0022%)  
p.M900Ifs\*11 (0.0022%)  
p.I905M (0.0022%)  
p.C988del (0.0022%)  
p.D987Lfs\*10 (0.0022%)  
p.P973= (0.0022%)  
p.S1146Y (0.0022%)  
p.P1169L (0.0022%)  
p.L755S (0.2863%)  
p.V777L (0.174%)  
p.S310F (0.0837%)  
p.D769Y (0.0705%)  
p.G778\_P780dup (0.0639%)  
p.L869R (0.0462%)  
p.S310Y (0.044%)  
p.Y772\_A775dup (0.0352%)  
p.R678Q (0.0242%)  
p.I767M (0.022%)  
p.E770\_A771insGIRD (0.0198%)  
p.D769H (0.0176%)  
p.G778\_S779insLPS (0.0154%)  
p.V842I (0.0154%)  
p.G778\_S779insLPG (0.0132%)  
p.R1153L (0.0088%)  
p.G776V (0.0088%)  
p.T862A (0.0088%)  
p.D873G (0.0088%)  
p.L755\_T759del (0.0088%)  
p.E717K (0.0088%)  
p.H878Y (0.0066%)  
p.L662V (0.0066%)  
p.W825\* (0.0066%)  
p.M833I (0.0066%)  
p.I886M (0.0066%)  
p.L15= (0.0066%)  
p.G292R (0.0044%)  
p.Q568\* (0.0066%)  
p.I788= (0.0066%)  
p.V1181I (0.0066%)  
p.A37T (0.0066%)  
p.W906C (0.0066%)  
p.R203C (0.0066%)  
p.R1006C (0.0044%)  
p.P1033A (0.0044%)  
p.P36S (0.0044%)  
p.R545Q (0.0044%)  
p.Y772= (0.0044%)  
p.Q1206K (0.0044%)  
p.\*1256Sext\*10 (0.0044%)  
p.S305C (0.0044%)  
p.S653C (0.0044%)  
p.R487W (0.0044%)  
p.?\_?ins? (0.0022%)  
p.S310= (0.0044%)  
p.L755\_T759delinsAQSQQ (0.0044%)  
p.L786M (0.0044%)  
p.T297I (0.0044%)  
p.K1182Q (0.0044%)  
p.G1201V (0.0044%)  
p.S1050\* (0.0044%)  
p.R34W (0.0044%)  
p.V777M (0.0044%)  
p.P702L (0.0044%)  
p.L1197F (0.0044%)  
p.R190Q (0.0044%)  
p.P562L (0.0044%)  
p.V697L (0.0044%)  
p.T306M (0.0022%)  
p.C789Y (0.0022%)  
p.E693K (0.0022%)  
p.L181= (0.0022%)  
p.L49= (0.0022%)  
p.N427K (0.0022%)  
p.A1190= (0.0022%)  
p.V91= (0.0022%)  
p.V797A (0.0022%)  
p.A848T (0.0022%)  
p.I628M (0.0022%)  
p.L1173V (0.0022%)  
p.R1048C (0.0022%)  
p.A1160V (0.0022%)  
p.L377= (0.0022%)  
p.S1174F (0.0022%)  
p.P489L (0.0022%)  
p.L823= (0.0022%)  
p.C227Y (0.0022%)  
p.T652= (0.0022%)  
p.E975Nfs\*85 (0.0022%)  
p.L841V (0.0022%)  
p.P1156= (0.0022%)  
p.R143G (0.0022%)  
p.L785F (0.0022%)  
p.P416T (0.0022%)  
p.Y835F (0.0022%)  
p.L755W (0.0022%)  
p.L755M (0.0022%)  
p.E874K (0.0022%)  
p.I961T (0.0022%)  
p.F279I (0.0022%)  
p.V670G (0.0022%)  
p.V153Sfs\*2 (0.0022%)  
p.P134Rfs\*66 (0.0022%)  
p.L608= (0.0022%)  
p.G1056S (0.0022%)  
p.L43Q (0.0022%)  
p.S1051F (0.0022%)  
p.P1074A (0.0022%)  
p.R340G (0.0022%)  
p.D742H (0.0022%)  
p.A1204T (0.0022%)  
p.H267Pfs\*14 (0.0022%)  
p.G309A (0.0022%)  
p.I468= (0.0022%)  
p.R849W (0.0022%)  
p.R536Q (0.0022%)  
p.E930Rfs\*24 (0.0022%)  
p.H470Q (0.0022%)  
p.E405D (0.0022%)  
p.E939G (0.0022%)  
p.P1162S (0.0022%)  
p.L891P (0.0022%)  
p.Q548H (0.0022%)  
p.G309E (0.0022%)  
p.G152A (0.0022%)  
p.D638Mfs\*14 (0.0022%)  
p.L60V (0.0022%)  
p.R599C (0.0022%)  
p.E744D (0.0022%)  
p.L755\_E757>PQ (0.0022%)  
p.P269Qfs\*28 (0.0022%)  
p.D924N (0.0022%)  
p.P523S (0.0022%)  
p.A270S (0.0022%)  
p.G1055C (0.0022%)  
p.G104D (0.0022%)  
p.V424I (0.0022%)  
p.R1153\* (0.0022%)  
p.L1075Mfs\*48 (0.0022%)  
p.A847= (0.0022%)  
p.A775\_G776insVA (0.0022%)  
p.L720= (0.0022%)  
p.L1131Dfs\*7 (0.0022%)  
p.R188H (0.0022%)  
p.R217C (0.0022%)  
p.L755\_E757>S (0.0022%)  
p.P416= (0.0022%)  
p.R896C (0.0022%)  
p.F266L (0.0374%)  
p.Q944\* (0.022%)  
p.D1850Gfs\*4 (0.0154%)  
p.Q529\* (0.0154%)  
p.G314= (0.0154%)  
p.Q372Afs\*28 (0.011%)  
p.Q268\* (0.0132%)  
p.R1989\* (0.0088%)  
p.Q515\* (0.011%)  
p.Q420\* (0.011%)  
p.R693\* (0.011%)  
p.E2145\* (0.011%)  
p.Q1334del (0.0066%)  
p.Y534\* (0.0066%)  
p.Q1212\* (0.0088%)  
p.H137Y (0.0088%)  
p.Q1856\* (0.0088%)  
p.S138\* (0.0088%)  
p.G1062D (0.0088%)  
p.E1780K (0.0088%)  
p.E1964\* (0.0088%)  
p.Q766Sfs\*67 (0.0088%)  
p.Q802Sfs\*15 (0.0088%)  
p.D75N (0.0088%)  
p.Y1055Lfs\*50 (0.0044%)  
p.S645\* (0.0044%)  
p.Q633\* (0.0066%)  
p.Q780Hfs\*34 (0.0066%)  
p.W1670\* (0.0066%)  
p.Q581\* (0.0066%)  
p.P239A (0.0066%)  
p.R1446Dfs\*35 (0.0066%)  
p.A325Rfs\*51 (0.0066%)  
p.H495D (0.0066%)  
p.R1722\* (0.0066%)  
p.S11Afs\*91 (0.0066%)  
p.L192Pfs\*201 (0.0066%)  
p.S634\* (0.0066%)  
p.S103\* (0.0066%)  
p.E1718\_Y1719delinsA\* (0.0066%)  
p.Q1835\* (0.0066%)  
p.S744\* (0.0066%)  
p.Q372\* (0.0066%)  
p.A3V (0.0066%)  
p.S381C (0.0066%)  
p.G623Kfs\*3 (0.0066%)  
p.P1292Efs\*2 (0.0066%)  
p.N833Kfs\*39 (0.0066%)  
p.N1784Sfs\*13 (0.0022%)  
p.Y195H (0.0044%)  
p.D2178Afs\*22 (0.0022%)  
p.D1850Tfs\*33 (0.0044%)  
p.Q2039\* (0.0022%)  
p.S617Qfs\*2 (0.0022%)  
p.G180Rfs\*49 (0.0022%)  
p.G1396Lfs\*81 (0.0044%)  
p.N1229D (0.0044%)  
p.Q379\* (0.0044%)  
p.K1230= (0.0044%)  
p.E1735\* (0.0044%)  
p.P2077S (0.0044%)  
p.Q479\* (0.0044%)  
p.P1898= (0.0044%)  
p.E1596\* (0.0044%)  
p.I908M (0.0044%)  
p.A228Rfs\*2 (0.0044%)  
p.R2057Q (0.0044%)  
p.Q585\* (0.0044%)  
p.Q743\* (0.0044%)  
p.E1764\* (0.0044%)  
p.A770T (0.0044%)  
p.P1266R (0.0044%)  
p.S558Vfs\*65 (0.0044%)  
p.Q1334= (0.0044%)  
p.A1239T (0.0044%)  
p.Q708\* (0.0044%)  
p.L1744Afs\*13 (0.0044%)  
p.Q605\* (0.0044%)  
p.Q428Afs\*195 (0.0044%)  
p.S90Pfs\*11 (0.0044%)  
p.P1244A (0.0044%)  
p.D1193A (0.0044%)  
p.P1162Sfs\*19 (0.0044%)  
p.V1526M (0.0044%)  
p.D315Rfs\*85 (0.0044%)  
p.A900Pfs\*19 (0.0044%)  
p.R1657K (0.0044%)  
p.G945Dfs\*23 (0.0044%)  
p.H170Tfs\*62 (0.0044%)  
p.Y551Lfs\*72 (0.0044%)  
p.R1046\* (0.0044%)  
p.N1313S (0.0044%)  
p.E2250Vfs\*27 (0.0044%)  
p.M940V (0.0044%)  
p.Y2076F (0.0044%)  
p.Y395\* (0.0044%)  
p.A1687Hfs\*2 (0.0044%)  
p.A167dup (0.0044%)  
p.Q1420\* (0.0044%)  
p.Q1131Sfs\*30 (0.0044%)  
p.S571Lfs\*53 (0.0044%)  
p.P1407= (0.0044%)  
p.E1904\* (0.0044%)  
p.S1558Cfs\*11 (0.0044%)  
p.L2011R (0.0044%)  
p.S446Afs\*175 (0.0044%)  
p.R727Sfs\*10 (0.0044%)  
p.Q1331Rfs\*150 (0.0044%)  
p.T1892Kfs\*31 (0.0044%)  
p.E2250fs\*? (0.0044%)  
p.Q743Nfs\*90 (0.0044%)  
p.M1273I (0.0022%)  
p.K1905N (0.0022%)  
p.R1020S (0.0022%)  
p.G624R (0.0022%)  
p.T2105P (0.0022%)  
p.A1626= (0.0022%)  
p.Q393\* (0.0022%)  
p.P1945L (0.0022%)  
p.P728Rfs\*9 (0.0022%)  
p.P1873= (0.0022%)  
p.L1591Cfs\*21 (0.0022%)  
p.T1514Rfs\*13 (0.0022%)  
p.V1834A (0.0022%)  
p.R1511K (0.0022%)  
p.S536P (0.0022%)  
p.E2200K (0.0022%)  
p.S241\* (0.0022%)  
p.A861T (0.0022%)  
p.Q1200\* (0.0022%)  
p.P1349Lfs\*132 (0.0022%)  
p.G882W (0.0022%)  
p.D648N (0.0022%)  
p.I1008= (0.0022%)  
p.E1033D (0.0022%)  
p.D1231N (0.0022%)  
p.R1637Q (0.0022%)  
p.S711\* (0.0022%)  
p.P431= (0.0022%)  
p.G1234C (0.0022%)  
p.K1034R (0.0022%)  
p.G276Efs\*87 (0.0022%)  
p.Y1233= (0.0022%)  
p.S587A (0.0022%)  
p.F1030= (0.0022%)  
p.F1030S (0.0022%)  
p.A615= (0.0022%)  
p.P1113H (0.0022%)  
p.P848S (0.0022%)  
p.N2220Kfs\*5 (0.0022%)  
p.E1111K (0.0022%)  
p.L2241= (0.0022%)  
p.G319Qfs\*51 (0.0022%)  
p.S2269\* (0.0022%)  
p.Q758Pfs\*59 (0.0022%)  
p.K1072Nfs\*21 (0.0022%)  
p.Y1339\* (0.0022%)  
p.Y1324Lfs\*7 (0.0022%)  
p.E1032G (0.0022%)  
p.D1315Rfs\*8 (0.0022%)  
p.A962T (0.0022%)  
p.S614\* (0.0022%)  
p.I908Tfs\*9 (0.0022%)  
p.Q1947H (0.0022%)  
p.Q1403Afs\*42 (0.0022%)  
p.Q1631\* (0.0022%)  
p.Q766Xfs\*67 (0.0022%)  
p.G1711A (0.0022%)  
p.Q1631del (0.0022%)  
p.E38\_A39insG (0.0022%)  
p.L192Pfs\*208 (0.0022%)  
p.Q2176Rfs\*48 (0.0022%)  
p.Q288Sfs\*75 (0.0022%)  
p.P1232L (0.0022%)  
p.Q1399R (0.0022%)  
p.Q2037\* (0.0022%)  
p.Q1401\* (0.0022%)  
p.E1779\_E1780del (0.0022%)  
p.G319Rfs\*75 (0.0022%)  
p.T2105I (0.0022%)  
p.L1745Afs\*12 (0.0022%)  
p.R1528\* (0.0022%)  
p.R1323C (0.0022%)  
p.V899= (0.0022%)  
p.Q1552\* (0.0022%)  
p.V1672G (0.0022%)  
p.N1183I (0.0022%)  
p.L2056R (0.0022%)  
p.E2246\* (0.0022%)  
p.W1844\* (0.0022%)  
p.N1299Y (0.0022%)  
p.K71R (0.0022%)  
p.Y1027\* (0.0022%)  
p.P1456Hfs\*25 (0.0022%)  
p.N722K (0.0022%)  
p.S711Lfs\*26 (0.0022%)  
p.E1726\* (0.0022%)  
p.M741Ifs\*92 (0.0022%)  
p.K1804Ifs\*5 (0.0022%)  
p.S1807Rfs\*8 (0.0022%)  
p.Y1285\* (0.0022%)  
p.Y1285Lfs\*2 (0.0022%)  
p.Q2207\* (0.0022%)  
p.P508S (0.0022%)  
p.W337\* (0.0022%)  
p.R1262H (0.0022%)  
p.T1206I (0.0022%)  
p.S1577Kfs\*26 (0.0022%)  
p.Q1363\* (0.0022%)  
p.Q557\* (0.0022%)  
p.P1560A (0.0022%)  
p.N106Tfs\*4 (0.0022%)  
p.S1261G (0.0022%)  
p.P977Xfs\*30 (0.0022%)  
p.P504A (0.0022%)  
p.Y1101\* (0.0022%)  
p.G864\_M872del (0.0022%)  
p.A139Pfs\*93 (0.0022%)  
p.P1627A (0.0022%)  
p.T1917A (0.0022%)  
p.Q1573\* (0.0022%)  
p.R1383Q (0.0022%)  
p.P21del (0.0022%)  
p.S1992P (0.0022%)  
p.P2265fs\*? (0.0022%)  
p.Q1327\* (0.0022%)  
p.Q386\* (0.0022%)  
p.A985Qfs\*54 (0.0022%)  
p.Q1329\* (0.0022%)  
p.Y470Sfs\*154 (0.0022%)  
p.L2016Afs\*16 (0.0022%)  
p.H688Sfs\*129 (0.0022%)  
p.T1892I (0.0022%)  
p.S2249\* (0.0022%)  
p.S1138Ifs\*55 (0.0022%)  
p.A342P (0.0022%)  
p.E672= (0.0022%)  
p.S1791\* (0.0022%)  
p.A88\_G93del (0.0022%)  
p.P776A (0.0022%)  
p.P580L (0.0022%)  
p.S2068W (0.0022%)  
p.H1336Xfs\*102 (0.0022%)  
p.P885L (0.0022%)  
p.E1760Rfs\*10 (0.0022%)  
p.Y2031\* (0.0022%)  
p.L1831V (0.0022%)  
p.G655Vfs\*4 (0.0022%)  
p.M875I (0.0022%)  
p.A45del (0.0022%)  
p.Q557Lfs\*63 (0.0022%)  
p.G2087E (0.0022%)  
p.E1864Afs\*36 (0.0022%)  
p.M1179I (0.0022%)  
p.K2159Rfs\*39 (0.0022%)  
p.V2274Mfs\*5 (0.0022%)  
p.Q789\* (0.0022%)  
p.T1150Pfs\*11 (0.0022%)  
p.G836C (0.0022%)  
p.Y2254\* (0.0022%)  
p.Q566\* (0.0022%)  
p.N820S (0.0022%)  
p.G127Afs\*265 (0.0022%)  
p.I692V (0.0022%)  
p.G463V (0.0022%)  
p.Q288\* (0.0022%)  
p.E1542K (0.0022%)  
p.P1710Lfs\*15 (0.0022%)  
p.N1433S (0.0022%)  
p.Q309\* (0.0022%)  
p.N1203Kfs\*2 (0.0022%)  
p.P1406T (0.0022%)  
p.S1600\* (0.0022%)  
p.L1768P (0.0022%)  
p.A43del (0.0022%)  
p.E2250Rfs\*28 (0.0022%)  
p.S304\* (0.0022%)  
p.M1154Wfs\*7 (0.0022%)  
p.Q1333\_Q1334dup (0.0022%)  
p.V1781\* (0.0022%)  
p.G927A (0.0022%)  
p.Q723\* (0.0022%)  
p.G1762Wfs\*11 (0.0022%)  
p.R2143C (0.0022%)  
p.N209Qfs\*191 (0.0022%)  
p.T988Dfs\*19 (0.0022%)  
p.M890Hfs\*46 (0.0022%)  
p.A347\_A349del (0.0022%)  
p.Y154H (0.0022%)  
p.A52Gfs\*51 (0.0022%)  
p.A88P (0.0022%)  
p.A53Wfs\*50 (0.0022%)  
p.G1269R (0.0022%)  
p.E2000D (0.0022%)  
p.K990Q (0.0022%)  
p.P728Vfs\*84 (0.0022%)  
p.L2239Rfs\*38 (0.0022%)  
p.P459H (0.0022%)  
p.N874Y (0.0022%)  
p.E1683K (0.0022%)  
p.Q575Pfs\*49 (0.0022%)  
p.M1022V (0.0022%)  
p.G1045S (0.0022%)  
p.G1045Vfs\*14 (0.0022%)  
p.E1060Dfs\*44 (0.0022%)  
p.P1048H (0.0022%)  
p.A45dup (0.0022%)  
p.K1072Xfs\*21 (0.0022%)  
p.P411L (0.0022%)  
p.Q548\* (0.0022%)  
p.Q553Tfs\*70 (0.0022%)  
p.P1447L (0.0022%)  
p.A345\_A349dup (0.0022%)  
p.G784V (0.0022%)  
p.S1916C (0.0022%)  
p.M741V (0.0022%)  
p.N2220K (0.0022%)  
p.M1036V (0.0022%)  
p.G189Rfs\*211 (0.0022%)  
p.L657Efs\*18 (0.0022%)  
p.E1766\* (0.0022%)  
p.L771Yfs\*62 (0.0022%)  
p.Y2076\* (0.0022%)  
p.E2255\* (0.0022%)  
p.S499Cfs\*120 (0.0022%)  
p.R1501Afs\*2 (0.0022%)  
p.N80S (0.0022%)  
p.A2181Gfs\*44 (0.0022%)  
p.G1375A (0.0022%)  
p.S1544L (0.0022%)  
p.I1907F (0.0022%)  
p.Q2188\* (0.0022%)  
p.S998fs\*? (0.0022%)  
p.R1335\* (0.0022%)  
p.G444S (0.0022%)  
p.A247dup (0.0022%)  
p.G2087R (0.0022%)  
p.L2089I (0.0022%)  
p.Q1095\* (0.0022%)  
p.L1805Qfs\*3 (0.0022%)  
p.M442Wfs\*177 (0.0022%)  
p.P1771S (0.0022%)  
p.Q1424\* (0.0022%)  
p.L299Hfs\*100 (0.0022%)  
p.P531L (0.0022%)  
p.A348D (0.0022%)  
p.D1850Xfs\*4 (0.0022%)  
p.A2240Pfs\*27 (0.0022%)  
p.L113Xfs\*105 (0.0022%)  
p.D1050Tfs\*9 (0.0022%)  
p.E17K (1.0592%)  
p.L52R (0.022%)  
p.L62R (0.0132%)  
p.E98\* (0.011%)  
p.D44N (0.011%)  
p.V4G (0.0088%)  
p.D323G (0.0088%)  
p.C77F (0.0088%)  
p.Q79K (0.0044%)  
p.S151C (0.0066%)  
p.I19M (0.0066%)  
p.E322K (0.0066%)  
p.L52H (0.0066%)  
p.C77\_L78insPGPTPSSSAA (0.0066%)  
p.P92= (0.0044%)  
p.D127N (0.0044%)  
p.F217L (0.0044%)  
p.S381L (0.0044%)  
p.E526K (0.0044%)  
p.T291I (0.0044%)  
p.M63I (0.0044%)  
p.E91D (0.0044%)  
p.C416Y (0.0022%)  
p.F55Y (0.0044%)  
p.R486Q (0.0044%)  
p.P68\_C77dup (0.0044%)  
p.M446I (0.0044%)  
p.K39N (0.0044%)  
p.Y464C (0.0022%)  
p.Q59L (0.0022%)  
p.S205= (0.0022%)  
p.D292E (0.0022%)  
p.A139T (0.0022%)  
p.V416= (0.0022%)  
p.I165= (0.0022%)  
p.L166= (0.0022%)  
p.E466K (0.0022%)  
p.P141L (0.0022%)  
p.K162= (0.0022%)  
p.V4L (0.0022%)  
p.R76\_C77insSGPGPTPSSSR (0.0022%)  
p.G308R (0.0022%)  
p.T65\_I75dup (0.0022%)  
p.P70\_C77dup (0.0022%)  
p.E133= (0.0022%)  
p.P482= (0.0022%)  
p.W80C (0.0022%)  
p.S85C (0.0022%)  
p.G425V (0.0022%)  
p.L612V (0.0022%)  
p.E242= (0.0022%)  
p.T101A (0.0022%)  
p.S381Cfs\*54 (0.0022%)  
p.T21A (0.0022%)  
p.V185D (0.0022%)  
p.W80R (0.0022%)  
p.E234V (0.0022%)  
p.P4R (0.0022%)  
p.Y346H (0.0022%)  
p.C310Afs\*33 (0.0022%)  
p.E85K (0.0022%)  
p.D32Y (0.0022%)  
p.N324S (0.0022%)  
p.D46E (0.0022%)  
p.P42T (0.0022%)  
p.D323H (0.0022%)  
p.L52F (0.0022%)  
p.D123Gfs\*15 (0.0352%)  
p.R169Kfs\*44 (0.0198%)  
p.D123Gfs\*11 (0.0154%)  
p.E316K (0.0176%)  
p.N96Tfs\*26 (0.0132%)  
p.W106\* (0.0132%)  
p.K117N (0.011%)  
p.R169K (0.011%)  
p.L98Sfs\*24 (0.011%)  
p.R201Q (0.011%)  
p.Q397Kfs\*197 (0.011%)  
p.S322\* (0.011%)  
p.K110N (0.0088%)  
p.R320\* (0.0088%)  
p.A134P (0.0088%)  
p.H105Y (0.0088%)  
p.S256F (0.0088%)  
p.L161Pfs\*52 (0.0066%)  
p.S252Ffs\*3 (0.0022%)  
p.R169\_G170insEE (0.0066%)  
p.R169= (0.0066%)  
p.P125Qfs\*8 (0.0066%)  
p.Y355Lfs\*245 (0.0066%)  
p.S218Afs\*19 (0.0066%)  
p.G168E (0.0066%)  
p.A338Rfs\*262 (0.0066%)  
p.R224L (0.0066%)  
p.S218Tfs\*4 (0.0066%)  
p.M368Hfs\*232 (0.0066%)  
p.L339R (0.0066%)  
p.T131Nfs\*7 (0.0066%)  
p.S100F (0.0066%)  
p.G421Afs\*171 (0.0066%)  
p.R427del (0.0066%)  
p.G24A (0.0066%)  
p.A66Cfs\*72 (0.0066%)  
p.E223K (0.0066%)  
p.D126Efs\*12 (0.0022%)  
p.I342Hfs\*258 (0.0044%)  
p.T131= (0.0022%)  
p.R201\* (0.0044%)  
p.R204P (0.0044%)  
p.R201Efs\*10 (0.0044%)  
p.E422K (0.0044%)  
p.R250Sfs\*11 (0.0044%)  
p.F353Afs\*248 (0.0044%)  
p.L210V (0.0044%)  
p.Y403Lfs\*197 (0.0044%)  
p.R306P (0.0044%)  
p.Q264R (0.0044%)  
p.N153Efs\*7 (0.0044%)  
p.S218Rfs\*21 (0.0044%)  
p.A134Gfs\*4 (0.0044%)  
p.S314Cfs\*285 (0.0044%)  
p.D332H (0.0044%)  
p.L339Qfs\*265 (0.0044%)  
p.L339Pfs\*265 (0.0044%)  
p.L253= (0.0044%)  
p.T148Pfs\*4 (0.0044%)  
p.Y403Wfs\*192 (0.0044%)  
p.K194N (0.0044%)  
p.P277Hfs\*34 (0.0044%)  
p.S389Rfs\*203 (0.0044%)  
p.E456K (0.0044%)  
p.A156\_F158del (0.0044%)  
p.L161P (0.0044%)  
p.R72Efs\*66 (0.0044%)  
p.L228Afs\*28 (0.0044%)  
p.D198G (0.0044%)  
p.D160\* (0.0044%)  
p.P425= (0.0022%)  
p.A244V (0.0022%)  
p.F416Vfs\*184 (0.0022%)  
p.V118E (0.0022%)  
p.E138G (0.0022%)  
p.R107L (0.0022%)  
p.T300M (0.0022%)  
p.R166Q (0.0022%)  
p.P337= (0.0022%)  
p.A147Gfs\*11 (0.0022%)  
p.A150Efs\*8 (0.0022%)  
p.L144\_N146delinsH (0.0022%)  
p.A299G (0.0022%)  
p.Y189H (0.0022%)  
p.A251Pfs\*2 (0.0022%)  
p.F330Pfs\*267 (0.0022%)  
p.D332\_P333delinsET (0.0022%)  
p.S220Gfs\*13 (0.0022%)  
p.T196R (0.0022%)  
p.L317F (0.0022%)  
p.K152dup (0.0022%)  
p.L288Tfs\*24 (0.0022%)  
p.P359Lfs\*238 (0.0022%)  
p.R250Vfs\*4 (0.0022%)  
p.F97Y (0.0022%)  
p.D93Y (0.0022%)  
p.D123Mfs\*10 (0.0022%)  
p.E8Q (0.0022%)  
p.P103R (0.0022%)  
p.L225Pfs\*12 (0.0022%)  
p.Q185Pfs\*24 (0.0022%)  
p.T246Hfs\*15 (0.0022%)  
p.Q274Tfs\*325 (0.0022%)  
p.L253Pfs\*8 (0.0022%)  
p.V81Gfs\*57 (0.0022%)  
p.I342fs\*? (0.0022%)  
p.Q213Hfs\*9 (0.0022%)  
p.F396Sfs\*198 (0.0022%)  
p.A352Pfs\*242 (0.0022%)  
p.L405Rfs\*189 (0.0022%)  
p.S322Nfs\*277 (0.0022%)  
p.S140fs\*? (0.0022%)  
p.G170Efs\*8 (0.0022%)  
p.V360Gfs\*240 (0.0022%)  
p.L219Gfs\*20 (0.0022%)  
p.K117\* (0.0022%)  
p.S77G (0.0022%)  
p.R201G (0.0022%)  
p.R250Pfs\*2 (0.0022%)  
p.T270Pfs\*326 (0.0022%)  
p.L112Cfs\*10 (0.0022%)  
p.G170Rfs\*43 (0.0022%)  
p.P103S (0.0022%)  
p.R237Pfs\*8 (0.0022%)  
p.S373fs\*? (0.0022%)  
p.T196Sfs\*16 (0.0022%)  
p.H404Pfs\*196 (0.0022%)  
p.I342Tfs\*258 (0.0022%)  
p.N146T (0.0022%)  
p.N139S (0.0022%)  
p.R224W (0.0022%)  
p.S402F (0.0022%)  
p.S100C (0.0022%)  
p.G168R (0.0022%)  
p.L253Pfs\*2 (0.0022%)  
p.A60V (0.0022%)  
p.G135D (0.0022%)  
p.T270Nfs\*330 (0.0022%)  
p.L144P (0.0022%)  
p.N248Sfs\*11 (0.0022%)  
p.P430L (0.0022%)  
p.G168A (0.0022%)  
p.Y349C (0.0022%)  
p.Q213Rfs\*24 (0.0022%)  
p.R204Q (0.0022%)  
p.S53G (0.0022%)  
p.L144Kfs\*14 (0.0022%)  
p.K117Rfs\*5 (0.0022%)  
p.F259Lfs\*52 (0.0022%)  
p.P261Lfs\*50 (0.0022%)  
p.G122= (0.0022%)  
p.R376C (0.0022%)  
p.R207Q (0.0022%)  
p.E223Afs\*3 (0.0022%)  
p.H404Lfs\*196 (0.0022%)  
p.R169Kfs\*8 (0.0022%)  
p.R145\* (0.0022%)  
p.S222Cfs\*6 (0.0022%)  
p.G122R (0.0022%)  
p.L144R (0.0022%)  
p.V130Cfs\*8 (0.0022%)  
p.W106C (0.0022%)  
p.V419Afs\*174 (0.0022%)  
p.I366\_G367dup (0.0022%)  
p.W279Vfs\*321 (0.0022%)  
p.G309S (0.0022%)  
p.N443T (0.0022%)  
p.S295Cfs\*304 (0.0022%)  
p.R346Pfs\*254 (0.0022%)  
p.R346Afs\*248 (0.0022%)  
p.N448Efs\*152 (0.0022%)  
p.S322Ffs\*278 (0.0022%)  
p.N153Kfs\*7 (0.0022%)  
p.Q266\* (0.0022%)  
p.A147Gfs\*13 (0.0022%)  
p.M371Gfs\*230 (0.0022%)  
p.S362Ffs\*238 (0.0022%)  
p.Q449Pfs\*151 (0.0022%)  
p.S303Yfs\*8 (0.0022%)  
p.E414\* (0.0088%)  
p.C249F (0.0066%)  
p.S285N (0.0066%)  
p.R363Q (0.0066%)  
p.Y1594\* (0.0022%)  
p.V264= (0.0044%)  
p.R155Q (0.0022%)  
p.L660S (0.0022%)  
p.L1476= (0.0044%)  
p.L560R (0.0044%)  
p.R297C (0.0044%)  
p.R1374W (0.0044%)  
p.F795= (0.0022%)  
p.V432= (0.0022%)  
p.K1578E (0.0022%)  
p.S1097Y (0.0022%)  
p.S1512L (0.0022%)  
p.Q1375\* (0.0022%)  
p.Q1443H (0.0022%)  
p.S1322A (0.0022%)  
p.S1322L (0.0022%)  
p.V1229I (0.0022%)  
p.S1531R (0.0022%)  
p.F1133= (0.0022%)  
p.Q392E (0.0022%)  
p.S886R (0.0022%)  
p.D193Y (0.0022%)  
p.R186W (0.0022%)  
p.M579T (0.0022%)  
p.H1552= (0.0022%)  
p.P674L (0.0022%)  
p.R1084W (0.0022%)  
p.R484K (0.0022%)  
p.E779K (0.0022%)  
p.A1312= (0.0022%)  
p.I396M (0.0022%)  
p.S907C (0.0022%)  
p.Q882K (0.0022%)  
p.T952N (0.0022%)  
p.H732P (0.0022%)  
p.G633W (0.0022%)  
p.R1557C (0.0022%)  
p.T1537S (0.0022%)  
p.F1239Y (0.0022%)  
p.I1102T (0.0022%)  
p.K1207N (0.0022%)  
p.L282= (0.0022%)  
p.S1227R (0.0022%)  
p.R488C (0.0022%)  
p.Q102E (0.0022%)  
p.L1014P (0.0022%)  
p.Y1558= (0.0022%)  
p.R155W (0.0022%)  
p.R692Q (0.0022%)  
p.S956= (0.0022%)  
p.I1025V (0.0022%)  
p.L267I (0.0022%)  
p.L1014Q (0.0022%)  
p.V644I (0.0022%)  
p.V1361I (0.0022%)  
p.K905T (0.0022%)  
p.S859N (0.0022%)  
p.C1086R (0.0022%)  
p.E1295K (0.0022%)  
p.V1441= (0.0022%)  
p.N588K (0.0022%)  
p.Q717= (0.0022%)  
p.R362W (0.0022%)  
p.N238D (0.0022%)  
p.H1152D (0.0022%)  
p.K60N (0.0022%)  
p.V1364F (0.0022%)  
p.V1275= (0.0022%)  
p.K178N (0.0484%)  
p.T525Nfs\*11 (0.0286%)  
p.E444K (0.0132%)  
p.E526Kfs\*9 (0.0088%)  
p.Q698\* (0.011%)  
p.K144\* (0.011%)  
p.Y20S (0.011%)  
p.G5V (0.011%)  
p.E693\* (0.011%)  
p.L1627V (0.0088%)  
p.S270\* (0.0066%)  
p.E2280K (0.0044%)  
p.R856K (0.0066%)  
p.W2371\* (0.0066%)  
p.S1697Y (0.0066%)  
p.K683\* (0.0066%)  
p.Q313\* (0.0044%)  
p.E529Kfs\*26 (0.0066%)  
p.T882Sfs\*27 (0.0066%)  
p.R350\* (0.0066%)  
p.E16Vfs\*33 (0.0066%)  
p.V1542M (0.0066%)  
p.S879Ffs\*8 (0.0066%)  
p.V706Kfs\*49 (0.0066%)  
p.E354Tfs\*21 (0.0066%)  
p.Q661\* (0.0066%)  
p.R581S (0.0066%)  
p.K532Rfs\*2 (0.0066%)  
p.K965\* (0.0066%)  
p.Q709\* (0.0066%)  
p.I239Mfs\*45 (0.0066%)  
p.P1570Qfs\*45 (0.0066%)  
p.E529Rfs\*7 (0.0022%)  
p.P1909S (0.0044%)  
p.R627Dfs\*14 (0.0022%)  
p.Q1362\* (0.0022%)  
p.E535\* (0.0022%)  
p.E1095\* (0.0022%)  
p.E379\* (0.0044%)  
p.K2325N (0.0044%)  
p.Q2041\* (0.0022%)  
p.E2280Q (0.0044%)  
p.H1128L (0.0044%)  
p.D1310N (0.0044%)  
p.R1302T (0.0044%)  
p.E752Q (0.0044%)  
p.V810L (0.0044%)  
p.S2380\* (0.0044%)  
p.P1673T (0.0044%)  
p.S903\* (0.0044%)  
p.L2124V (0.0044%)  
p.M1606T (0.0044%)  
p.Y1604N (0.0044%)  
p.L1614\* (0.0044%)  
p.Y1435\* (0.0044%)  
p.E1974\* (0.0044%)  
p.S1196N (0.0044%)  
p.H2111L (0.0022%)  
p.E1005Kfs\*10 (0.0044%)  
p.S2335Y (0.0044%)  
p.I1057M (0.0044%)  
p.Q800\* (0.0044%)  
p.Q698H (0.0044%)  
p.G1134S (0.0044%)  
p.S2300\* (0.0022%)  
p.E529Kfs\*25 (0.0044%)  
p.D555Rfs\*21 (0.0044%)  
p.K280Yfs\*14 (0.0044%)  
p.E1421\* (0.0044%)  
p.K1106N (0.0044%)  
p.Q2154\* (0.0044%)  
p.L291Ffs\*2 (0.0044%)  
p.L400I (0.0044%)  
p.S1099\* (0.0044%)  
p.S103L (0.0044%)  
p.R1432G (0.0044%)  
p.G1208Rfs\*6 (0.0044%)  
p.R2171Sfs\*15 (0.0044%)  
p.R2008\* (0.0044%)  
p.T1991Dfs\*8 (0.0044%)  
p.S1896C (0.0044%)  
p.R361\* (0.0044%)  
p.M2290Yfs\*17 (0.0044%)  
p.S88R (0.0044%)  
p.R1326\* (0.0044%)  
p.H1352Mfs\*9 (0.0044%)  
p.Q59\* (0.0044%)  
p.A599Tfs\*23 (0.0022%)  
p.G151S (0.0022%)  
p.G1683A (0.0022%)  
p.R2418K (0.0022%)  
p.R1854T (0.0022%)  
p.V1873G (0.0022%)  
p.R1755C (0.0022%)  
p.N2099H (0.0022%)  
p.E1845K (0.0022%)  
p.Q120\* (0.0022%)  
p.P132R (0.0022%)  
p.E1109K (0.0022%)  
p.R1628C (0.0022%)  
p.E220= (0.0022%)  
p.P156= (0.0022%)  
p.S158F (0.0022%)  
p.Q978H (0.0022%)  
p.Q2009\* (0.0022%)  
p.R1162= (0.0022%)  
p.H1575Tfs\*40 (0.0022%)  
p.S2337F (0.0022%)  
p.S1394\* (0.0022%)  
p.E693D (0.0022%)  
p.M1499I (0.0022%)  
p.E721K (0.0022%)  
p.A1942= (0.0022%)  
p.L1989M (0.0022%)  
p.Q1993\* (0.0022%)  
p.I2059= (0.0022%)  
p.Q1008\* (0.0022%)  
p.Q1792\* (0.0022%)  
p.F2081= (0.0022%)  
p.S1957C (0.0022%)  
p.Q2230\* (0.0022%)  
p.E220K (0.0022%)  
p.Q1174H (0.0022%)  
p.T574I (0.0022%)  
p.T817\_A819del (0.0022%)  
p.E1841Q (0.0022%)  
p.N2260K (0.0022%)  
p.P2137Qfs\*52 (0.0022%)  
p.P2397L (0.0022%)  
p.E1109Gfs\*16 (0.0022%)  
p.D2439N (0.0022%)  
p.I2235M (0.0022%)  
p.S1046\* (0.0022%)  
p.K524\* (0.0022%)  
p.K1316Nfs\*45 (0.0022%)  
p.S172Hfs\*10 (0.0022%)  
p.S1855R (0.0022%)  
p.E975K (0.0022%)  
p.R1229Q (0.0022%)  
p.P7S (0.0022%)  
p.R414\* (0.0022%)  
p.D839Efs\*9 (0.0022%)  
p.G1634E (0.0022%)  
p.S1050Y (0.0022%)  
p.F1110V (0.0022%)  
p.Q1833Rfs\*17 (0.0022%)  
p.K1215R (0.0022%)  
p.R870Gfs\*39 (0.0022%)  
p.E335\* (0.0022%)  
p.T2080Rfs\*6 (0.0022%)  
p.S2352\* (0.0022%)  
p.V1014M (0.0022%)  
p.K685Nfs\*7 (0.0022%)  
p.H1575Pfs\*40 (0.0022%)  
p.H1575Y (0.0022%)  
p.T1870Pfs\*29 (0.0022%)  
p.P222H (0.0022%)  
p.S1281Vfs\*16 (0.0022%)  
p.I1618Lfs\*8 (0.0022%)  
p.R2349W (0.0022%)  
p.R121= (0.0022%)  
p.G1683Vfs\*79 (0.0022%)  
p.E592\* (0.0022%)  
p.A1710T (0.0022%)  
p.Q1624\* (0.0022%)  
p.E1193\* (0.0022%)  
p.E851= (0.0022%)  
p.M940I (0.0022%)  
p.A1972S (0.0022%)  
p.D312H (0.0022%)  
p.Y1065Afs\*7 (0.0022%)  
p.S1453= (0.0022%)  
p.V188Nfs\*10 (0.0022%)  
p.E537del (0.0022%)  
p.P1419L (0.0022%)  
p.R1794\* (0.0022%)  
p.Q206Tfs\*4 (0.0022%)  
p.E542Rfs\*20 (0.0022%)  
p.Q1167\* (0.0022%)  
p.K689\* (0.0022%)  
p.L2271Qfs\*3 (0.0022%)  
p.R1854\* (0.0022%)  
p.R672Q (0.0022%)  
p.H93Y (0.0022%)  
p.Y2344Nfs\*18 (0.0022%)  
p.S2244Vfs\*5 (0.0022%)  
p.E411\* (0.0022%)  
p.M2226V (0.0022%)  
p.P1029Q (0.0022%)  
p.A1817T (0.0022%)  
p.A1817D (0.0022%)  
p.S1461Ifs\*5 (0.0022%)  
p.P1467Qfs\*10 (0.0022%)  
p.K2323Q (0.0022%)  
p.S1242G (0.0022%)  
p.D2313Hfs\*13 (0.0022%)  
p.E531Q (0.0022%)  
p.W2420R (0.0022%)  
p.G1163D (0.0022%)  
p.S1533C (0.0022%)  
p.S2144L (0.0022%)  
p.E112Nfs\*18 (0.0022%)  
p.E1047Gfs\*24 (0.0022%)  
p.P1159= (0.0022%)  
p.R1375Q (0.0022%)  
p.Q874H (0.0022%)  
p.E854\* (0.0022%)  
p.Q1256H (0.0022%)  
p.V1438Efs\*22 (0.0022%)  
p.E791\* (0.0022%)  
p.R493K (0.0022%)  
p.Q1071\* (0.0022%)  
p.L57\_Q61delins\* (0.0022%)  
p.M397Kfs\*7 (0.0022%)  
p.R2118Gfs\*14 (0.0022%)  
p.Y666\* (0.0022%)  
p.T557I (0.0022%)  
p.C943Y (0.0022%)  
p.N392S (0.0022%)  
p.Q1372\* (0.0022%)  
p.V1124Sfs\*8 (0.0022%)  
p.S1512C (0.0022%)  
p.A558T (0.0022%)  
p.R1747\* (0.0022%)  
p.K2215\* (0.0022%)  
p.Q1127\* (0.0022%)  
p.E394D (0.0022%)  
p.A602V (0.0022%)  
p.P2156L (0.0022%)  
p.Q2113E (0.0022%)  
p.S1195N (0.0022%)  
p.R1718Q (0.0022%)  
p.R933\* (0.0022%)  
p.G1208Afs\*36 (0.0022%)  
p.E724\* (0.0022%)  
p.T686Lfs\*82 (0.0022%)  
p.G78S (0.0022%)  
p.P1323R (0.0022%)  
p.R19H (0.0022%)  
p.Q2108Vfs\*24 (0.0022%)  
p.E354\* (0.0022%)  
p.Q1588\* (0.0022%)  
p.Q2178Rfs\*11 (0.0022%)  
p.S1913Ifs\*4 (0.0022%)  
p.E887\* (0.0022%)  
p.Q1317Kfs\*44 (0.0022%)  
p.T1026Dfs\*45 (0.0022%)  
p.P813S (0.0022%)  
p.E74K (0.0242%)  
p.G319del (0.0088%)  
p.L2020F (0.0088%)  
p.D519N (0.0088%)  
p.D1758N (0.0088%)  
p.Q577\* (0.0088%)  
p.A344V (0.0088%)  
p.Y1148\* (0.0022%)  
p.E1867G (0.0066%)  
p.M644I (0.0066%)  
p.Q125\_Q131del (0.0066%)  
p.E1743K (0.0066%)  
p.E1745K (0.0044%)  
p.Q1897Rfs\*77 (0.0022%)  
p.G1054R (0.0044%)  
p.S425\* (0.0044%)  
p.V1288= (0.0044%)  
p.P1544= (0.0044%)  
p.D1665Y (0.0044%)  
p.S736Ifs\*27 (0.0044%)  
p.S361W (0.0044%)  
p.A780T (0.0044%)  
p.L1647I (0.0044%)  
p.G1482\_P1484del (0.0044%)  
p.G144\_A147del (0.0044%)  
p.S270L (0.0044%)  
p.G351A (0.0044%)  
p.A75P (0.0044%)  
p.Q130\_Q131dup (0.0044%)  
p.G351Mfs\*11 (0.0044%)  
p.P921T (0.0044%)  
p.P1706A (0.0044%)  
p.E665\* (0.0044%)  
p.E185Q (0.0044%)  
p.G246S (0.0044%)  
p.P800A (0.0044%)  
p.P766= (0.0022%)  
p.A2006S (0.0022%)  
p.G2051S (0.0022%)  
p.G903E (0.0022%)  
p.T1058= (0.0022%)  
p.K1155\* (0.0022%)  
p.P1382L (0.0022%)  
p.T1053A (0.0022%)  
p.R2147T (0.0022%)  
p.L1643R (0.0022%)  
p.E1998Q (0.0022%)  
p.A724= (0.0022%)  
p.T1542= (0.0022%)  
p.S2136= (0.0022%)  
p.M916I (0.0022%)  
p.R1337Q (0.0022%)  
p.E1161Q (0.0022%)  
p.A1002= (0.0022%)  
p.E2219K (0.0022%)  
p.G884\* (0.0022%)  
p.Q2152\* (0.0022%)  
p.R1855T (0.0022%)  
p.M265I (0.0022%)  
p.L1063= (0.0022%)  
p.D1242H (0.0022%)  
p.G1646D (0.0022%)  
p.A44Gfs\*187 (0.0022%)  
p.R2207K (0.0022%)  
p.S1628F (0.0022%)  
p.Q823H (0.0022%)  
p.A1184S (0.0022%)  
p.G144D (0.0022%)  
p.Q131dup (0.0022%)  
p.Q121= (0.0022%)  
p.P450dup (0.0022%)  
p.Y2112Mfs\*4 (0.0022%)  
p.P1502H (0.0022%)  
p.A97T (0.0022%)  
p.E1055\* (0.0022%)  
p.E1731Q (0.0022%)  
p.S2131T (0.0022%)  
p.L1888V (0.0022%)  
p.P218A (0.0022%)  
p.G328del (0.0022%)  
p.Q120= (0.0022%)  
p.Q122= (0.0022%)  
p.G474A (0.0022%)  
p.M913I (0.0022%)  
p.K1783T (0.0022%)  
p.K1777N (0.0022%)  
p.P559S (0.0022%)  
p.N1065Qfs\*2 (0.0022%)  
p.G300S (0.0022%)  
p.P1849L (0.0022%)  
p.G827A (0.0022%)  
p.P621Rfs\*47 (0.0022%)  
p.Q124\_Q131del (0.0022%)  
p.D2036H (0.0022%)  
p.A347\_A350del (0.0022%)  
p.H96dup (0.0022%)  
p.H89P (0.0022%)  
p.D2193G (0.0022%)  
p.N1065Tfs\*2 (0.0022%)  
p.E1388K (0.0022%)  
p.R1552K (0.0022%)  
p.A445dup (0.0022%)  
p.A445V (0.0022%)  
p.A78Rfs\*154 (0.0022%)  
p.Y298\* (0.0022%)  
p.V2096L (0.0022%)  
p.V339\_A340dup (0.0022%)  
p.G328dup (0.0022%)  
p.A273\_A274dup (0.0022%)  
p.Q1479R (0.0022%)  
p.M521V (0.0022%)  
p.Q1262P (0.0022%)  
p.H89dup (0.0022%)  
p.N1393Tfs\*55 (0.0022%)  
p.M1529T (0.0022%)  
p.G1442E (0.0022%)  
p.N984K (0.0022%)  
p.A2201V (0.0022%)  
p.G886Wfs\*56 (0.0022%)  
p.T937A (0.0022%)  
p.Y358\_G360del (0.0022%)  
p.S1752R (0.0022%)  
p.Q801Rfs\*44 (0.0022%)  
p.M913R (0.0022%)  
p.D1720Y (0.0022%)  
p.D1268N (0.0022%)  
p.M1523Vfs\*112 (0.0022%)  
p.R1534C (0.0022%)  
p.A345V (0.0022%)  
p.E1160\* (0.0022%)  
p.H93Q (0.0022%)  
p.G922S (0.0022%)  
p.A363V (0.0022%)  
p.E1062G (0.0022%)  
p.K1775\* (0.0022%)  
p.I1934F (0.0022%)  
p.G1324E (0.0022%)  
p.G316\_G319del (0.0022%)  
p.S1882C (0.0022%)  
p.P1576L (0.0022%)  
p.G326A (0.0022%)  
p.G326\_G328del (0.0022%)  
p.A340V (0.0022%)  
p.A329G (0.0022%)  
p.A331G (0.0022%)  
p.T1586M (0.0022%)  
p.N1469H (0.0022%)  
p.Q1780Lfs\*4 (0.0022%)  
p.L1981Ffs\*40 (0.0022%)  
p.M1699V (0.0022%)  
p.H96del (0.0022%)  
p.G660R (0.0022%)  
p.Q129\_Q131dup (0.0022%)  
p.G1822\_H1833del (0.0022%)  
p.E1685Dfs\*7 (0.0022%)  
p.T1542M (0.0022%)  
p.S845N (0.0022%)  
p.M154L (0.0022%)  
p.A350dup (0.0022%)  
p.G377V (0.0022%)  
p.L110P (0.0022%)  
p.V1800F (0.0022%)  
p.E1749K (0.0022%)  
p.K1786R (0.0022%)  
p.P1596Hfs\*18 (0.0022%)  
p.A341V (0.0022%)  
p.S1231N (0.0022%)  
p.G322E (0.0022%)  
p.E314Q (0.0088%)  
p.S290T (0.0066%)  
p.D451H (0.0066%)  
p.F499Hfs\*14 (0.0066%)  
p.R503Hfs\*24 (0.0022%)  
p.E539K (0.0044%)  
p.E690K (0.0044%)  
p.V646M (0.0044%)  
p.Q167Lfs\*38 (0.0044%)  
p.L199\_Q200delinsF\* (0.0044%)  
p.Q56Rfs\*26 (0.0044%)  
p.Q177L (0.0044%)  
p.E375\* (0.0022%)  
p.G39E (0.0022%)  
p.R504G (0.0022%)  
p.Q182\* (0.0022%)  
p.Q124\* (0.0022%)  
p.D441E (0.0022%)  
p.Q118K (0.0022%)  
p.D88Y (0.0022%)  
p.L191\* (0.0022%)  
p.L414Dfs\*46 (0.0022%)  
p.P599Hfs\*34 (0.0022%)  
p.P407A (0.0022%)  
p.A61= (0.0022%)  
p.S98\* (0.0022%)  
p.A15V (0.0022%)  
p.Q162del (0.0022%)  
p.E756K (0.0066%)  
p.D1051N (0.0066%)  
p.R885T (0.0066%)  
p.D775N (0.0066%)  
p.S1206del (0.0044%)  
p.S34F (0.0066%)  
p.I402N (0.0066%)  
p.R466I (0.0066%)  
p.T480K (0.0066%)  
p.K1018N (0.0066%)  
p.S560F (0.0044%)  
p.L653F (0.0044%)  
p.Q2370\* (0.0022%)  
p.R2288= (0.0022%)  
p.S750\* (0.0044%)  
p.S1732F (0.0044%)  
p.V1716G (0.0044%)  
p.D1903G (0.0044%)  
p.Q193\* (0.0044%)  
p.D1287N (0.0044%)  
p.S1991F (0.0044%)  
p.E63\* (0.0044%)  
p.E511\* (0.0044%)  
p.D896N (0.0044%)  
p.K575Nfs\*4 (0.0044%)  
p.I1533V (0.0044%)  
p.Y2391C (0.0044%)  
p.E679K (0.0044%)  
p.S2121Y (0.0044%)  
p.L359Tfs\*3 (0.0044%)  
p.N1975K (0.0044%)  
p.R658C (0.0044%)  
p.F2210L (0.0044%)  
p.R1514\* (0.0044%)  
p.G602D (0.0022%)  
p.D412Y (0.0022%)  
p.E966D (0.0022%)  
p.R1131I (0.0022%)  
p.S1054F (0.0022%)  
p.S1906= (0.0022%)  
p.E1522\* (0.0022%)  
p.D1247H (0.0022%)  
p.E1113Q (0.0022%)  
p.S985C (0.0022%)  
p.K970N (0.0022%)  
p.L738= (0.0022%)  
p.D1111H (0.0022%)  
p.Q984H (0.0022%)  
p.E1090D (0.0022%)  
p.R1372I (0.0022%)  
p.S812Y (0.0022%)  
p.K1640N (0.0022%)  
p.K1091N (0.0022%)  
p.S67F (0.0022%)  
p.R390H (0.0022%)  
p.K297del (0.0022%)  
p.V1557A (0.0022%)  
p.L229V (0.0022%)  
p.N228Y (0.0022%)  
p.E929D (0.0022%)  
p.R1838T (0.0022%)  
p.Q42E (0.0022%)  
p.G226S (0.0022%)  
p.R1138K (0.0022%)  
p.D753N (0.0022%)  
p.S719C (0.0022%)  
p.N2450= (0.0022%)  
p.K1274E (0.0022%)  
p.R571I (0.0022%)  
p.M2456I (0.0022%)  
p.S1980C (0.0022%)  
p.D896H (0.0022%)  
p.T32I (0.0022%)  
p.K1175E (0.0022%)  
p.S996L (0.0022%)  
p.S656F (0.0022%)  
p.K1420I (0.0022%)  
p.K1938E (0.0022%)  
p.R840Nfs\*8 (0.0022%)  
p.S1237L (0.0022%)  
p.L1340V (0.0022%)  
p.S703C (0.0022%)  
p.E1464del (0.0022%)  
p.S1205C (0.0022%)  
p.D139Mfs\*14 (0.0022%)  
p.L229= (0.0022%)  
p.M1596I (0.0022%)  
p.E1223= (0.0022%)  
p.D1327N (0.0022%)  
p.D730N (0.0022%)  
p.E851Q (0.0022%)  
p.A23= (0.0022%)  
p.K1725\* (0.0022%)  
p.E1985K (0.0022%)  
p.R2028P (0.0022%)  
p.N247S (0.0022%)  
p.G1038A (0.0022%)  
p.P2299S (0.0022%)  
p.T810N (0.0022%)  
p.I1773M (0.0022%)  
p.R2197C (0.0022%)  
p.C1122W (0.0022%)  
p.D2217N (0.0022%)  
p.M2362T (0.0022%)  
p.G859Rfs\*4 (0.0022%)  
p.F1384L (0.0022%)  
p.T1582Nfs\*19 (0.0022%)  
p.S819L (0.0022%)  
p.M744L (0.0022%)  
p.G75E (0.0022%)  
p.G2466D (0.0022%)  
p.S1944del (0.0022%)  
p.S1991C (0.0022%)  
p.Q1569R (0.0022%)  
p.A1912D (0.0022%)  
p.A510G (0.0066%)  
p.S178L (0.0066%)  
p.Q196\* (0.0044%)  
p.R416H (0.0044%)  
p.P569H (0.0022%)  
p.T504P (0.0022%)  
p.A278= (0.0022%)  
p.S466L (0.0022%)  
p.R129H (0.0022%)  
p.S550\* (0.0022%)  
p.A404V (0.0022%)  
p.N533T (0.0022%)  
p.T218K (0.0022%)  
p.A495T (0.0022%)  
p.T571I (0.0022%)  
p.N106= (0.0022%)  
p.E798Q (0.0088%)  
p.H254Y (0.0088%)  
p.L574V (0.0088%)  
p.Q177H (0.0066%)  
p.G545A (0.0066%)  
p.L544V (0.0044%)  
p.G235= (0.0044%)  
p.E58K (0.0044%)  
p.L187= (0.0044%)  
p.E412K (0.0044%)  
p.H349R (0.0044%)  
p.N454K (0.0044%)  
p.N714K (0.0044%)  
p.G547R (0.0044%)  
p.R459W (0.0044%)  
p.V413M (0.0022%)  
p.G235R (0.0022%)  
p.A573V (0.0022%)  
p.L146= (0.0022%)  
p.L824= (0.0022%)  
p.R683S (0.0022%)  
p.T369N (0.0022%)  
p.S654= (0.0022%)  
p.A496= (0.0022%)  
p.F585= (0.0022%)  
p.S359= (0.0022%)  
p.K797T (0.0022%)  
p.R582W (0.0022%)  
p.N133Tfs\*18 (0.0022%)  
p.S741I (0.0022%)  
p.A555V (0.0022%)  
p.D208A (0.0022%)  
p.E179G (0.0022%)  
p.P210T (0.0022%)  
p.V552F (0.0022%)  
p.L827F (0.0022%)  
p.K424T (0.0022%)  
p.L629F (0.0022%)  
p.P161S (0.0066%)  
p.L308= (0.0044%)  
p.V207L (0.0022%)  
p.K63N (0.0022%)  
p.L396\* (0.0044%)  
p.V281= (0.0044%)  
p.L301M (0.0022%)  
p.S423I (0.0022%)  
p.A96V (0.0022%)  
p.E143Q (0.0022%)  
p.R199\* (0.0022%)  
p.G530R (0.0022%)  
p.R254\* (0.0022%)  
p.R199Q (0.0022%)  
p.R2734Q (0.011%)  
p.R5501\* (0.0022%)  
p.S1476C (0.0044%)  
p.E668K (0.0088%)  
p.E731\* (0.0088%)  
p.S4657C (0.0088%)  
p.E820A (0.0088%)  
p.E4733K (0.0066%)  
p.V137= (0.0066%)  
p.D3560N (0.0066%)  
p.P2557L (0.0066%)  
p.Q3603= (0.0066%)  
p.A4793T (0.0066%)  
p.L842= (0.0066%)  
p.S5386F (0.0066%)  
p.T2017S (0.0066%)  
p.R321Q (0.0066%)  
p.R2401C (0.0066%)  
p.C1083\* (0.0066%)  
p.P335A (0.0066%)  
p.K3235N (0.0044%)  
p.R2041G (0.0044%)  
p.R5097Q (0.0044%)  
p.S4871R (0.0044%)  
p.R5220H (0.0044%)  
p.Q3531H (0.0044%)  
p.E3529K (0.0044%)  
p.L4950V (0.0044%)  
p.E2879Q (0.0044%)  
p.G179V (0.0044%)  
p.D3165N (0.0044%)  
p.S2296F (0.0044%)  
p.Q733H (0.0044%)  
p.A792\_Q827del (0.0044%)  
p.K11N (0.0044%)  
p.P2502= (0.0044%)  
p.H5200Y (0.0044%)  
p.Q3907= (0.0044%)  
p.Q1029\* (0.0044%)  
p.R3482= (0.0022%)  
p.P666S (0.0044%)  
p.H2565= (0.0044%)  
p.S314C (0.0044%)  
p.S181F (0.0044%)  
p.Q393H (0.0044%)  
p.L730= (0.0044%)  
p.E427Q (0.0044%)  
p.T1593I (0.0044%)  
p.E4061D (0.0044%)  
p.Q3831Sfs\*50 (0.0044%)  
p.Q3913\* (0.0044%)  
p.K1060Efs\*8 (0.0044%)  
p.L3457Afs\*10 (0.0044%)  
p.L1027H (0.0044%)  
p.R5179P (0.0044%)  
p.R2683H (0.0044%)  
p.E262K (0.0044%)  
p.D2034N (0.0044%)  
p.D760= (0.0044%)  
p.Q4500E (0.0044%)  
p.G2599R (0.0044%)  
p.A2119Lfs\*25 (0.0022%)  
p.Q5248Tfs\*18 (0.0044%)  
p.S4411C (0.0044%)  
p.Q5195H (0.0044%)  
p.S4480A (0.0044%)  
p.S1349R (0.0044%)  
p.K1822E (0.0044%)  
p.D3234N (0.0044%)  
p.E1067K (0.0044%)  
p.L68V (0.0044%)  
p.L4296\* (0.0044%)  
p.R4212Q (0.0044%)  
p.L4156Xfs\*6 (0.0044%)  
p.P4338A (0.0044%)  
p.P4098S (0.0044%)  
p.R2535C (0.0044%)  
p.R2041C (0.0044%)  
p.G1864Afs\*12 (0.0044%)  
p.R1304H (0.0044%)  
p.D386N (0.0044%)  
p.K4470N (0.0022%)  
p.G4777Efs\*18 (0.0022%)  
p.S4617I (0.0022%)  
p.R2774W (0.0022%)  
p.R1796L (0.0022%)  
p.V1078D (0.0022%)  
p.G574= (0.0022%)  
p.Y5287= (0.0022%)  
p.P4246T (0.0022%)  
p.Q5365E (0.0022%)  
p.P628= (0.0022%)  
p.V5435G (0.0022%)  
p.Q3471H (0.0022%)  
p.Q5513E (0.0022%)  
p.R3547H (0.0022%)  
p.A221Lfs\*40 (0.0022%)  
p.H769= (0.0022%)  
p.N334I (0.0022%)  
p.A2112Hfs\*32 (0.0022%)  
p.L2498V (0.0022%)  
p.R986C (0.0022%)  
p.S2115T (0.0022%)  
p.R3582Q (0.0022%)  
p.P779= (0.0022%)  
p.S510= (0.0022%)  
p.E3418Q (0.0022%)  
p.D295N (0.0022%)  
p.D1438N (0.0022%)  
p.G798= (0.0022%)  
p.D1848N (0.0022%)  
p.S4359L (0.0022%)  
p.D1825N (0.0022%)  
p.D1824N (0.0022%)  
p.R5439G (0.0022%)  
p.D36= (0.0022%)  
p.H5176N (0.0022%)  
p.E363K (0.0022%)  
p.G3844V (0.0022%)  
p.S5147G (0.0022%)  
p.E4712K (0.0022%)  
p.E5371K (0.0022%)  
p.G1010R (0.0022%)  
p.E5161K (0.0022%)  
p.G1235D (0.0022%)  
p.Q4262E (0.0022%)  
p.F1373I (0.0022%)  
p.R5320H (0.0022%)  
p.S4034F (0.0022%)  
p.F930L (0.0022%)  
p.V1374I (0.0022%)  
p.G2870V (0.0022%)  
p.L1764= (0.0022%)  
p.S627= (0.0022%)  
p.A3459S (0.0022%)  
p.G1975Afs\*12 (0.0022%)  
p.F4576Sfs\*12 (0.0022%)  
p.R4478G (0.0022%)  
p.Q3905L (0.0022%)  
p.G5428D (0.0022%)  
p.R3626W (0.0022%)  
p.D5462G (0.0022%)  
p.E1517K (0.0022%)  
p.S2927L (0.0022%)  
p.L3462= (0.0022%)  
p.Q2816\* (0.0022%)  
p.P1021S (0.0022%)  
p.Y194C (0.0022%)  
p.E1355\* (0.0022%)  
p.P2803A (0.0022%)  
p.S4507Afs\*12 (0.0022%)  
p.R2830Q (0.0022%)  
p.L4089Afs\*17 (0.0022%)  
p.T4787Sfs\*29 (0.0022%)  
p.A899= (0.0022%)  
p.L3220Wfs\*9 (0.0022%)  
p.L2963= (0.0022%)  
p.Q2796E (0.0022%)  
p.S926T (0.0022%)  
p.P1188L (0.0022%)  
p.S2201\_P2209del (0.0022%)  
p.P3557Qfs\*101 (0.0022%)  
p.T4787Qfs\*10 (0.0022%)  
p.L4575I (0.0022%)  
p.Q809Rfs\*121 (0.0022%)  
p.Q3623del (0.0022%)  
p.E1750K (0.0022%)  
p.L4351\* (0.0022%)  
p.R3582W (0.0022%)  
p.G1778Efs\*9 (0.0022%)  
p.T3765R (0.0022%)  
p.L520Cfs\*410 (0.0022%)  
p.N2254K (0.0022%)  
p.R2217C (0.0022%)  
p.D1954H (0.0022%)  
p.P3648L (0.0022%)  
p.I1344T (0.0022%)  
p.P4380Qfs\*4 (0.0022%)  
p.A561= (0.0022%)  
p.Q3813= (0.0022%)  
p.L3931\_Q3937del (0.0022%)  
p.Q3813\* (0.0022%)  
p.P462Lfs\*7 (0.0022%)  
p.S518L (0.0022%)  
p.Q3954del (0.0022%)  
p.Q3960Nfs\*19 (0.0022%)  
p.Q3758Sfs\*72 (0.0022%)  
p.P910R (0.0022%)  
p.Q1134H (0.0022%)  
p.R4288Q (0.0022%)  
p.R3707Kfs\*5 (0.0022%)  
p.S1250C (0.0022%)  
p.S4010P (0.0022%)  
p.M5332I (0.0022%)  
p.Q4235Gfs\*98 (0.0022%)  
p.L2255\* (0.0022%)  
p.P126Cfs\*93 (0.0022%)  
p.T1681N (0.0022%)  
p.Q4417\* (0.0022%)  
p.S1744N (0.0022%)  
p.I4569= (0.0022%)  
p.P3665Lfs\*84 (0.0022%)  
p.S501C (0.0022%)  
p.G1802Dfs\*23 (0.0022%)  
p.Q3799Rfs\*31 (0.0022%)  
p.E4882Rfs\*113 (0.0022%)  
p.N1934= (0.0022%)  
p.D1824Y (0.0022%)  
p.V4395Gfs\*6 (0.0022%)  
p.P2390L (0.0022%)  
p.N2977S (0.0022%)  
p.R2860C (0.0022%)  
p.Q3602P (0.0022%)  
p.K3630Sfs\*28 (0.0022%)  
p.L5417Rfs\*41 (0.0022%)  
p.V782= (0.0022%)  
p.A1163T (0.0022%)  
p.A3037fs\*? (0.0022%)  
p.S3708Afs\*41 (0.0022%)  
p.P1855Qfs\*7 (0.0022%)  
p.Q3910\_Q3911dup (0.0022%)  
p.G2279E (0.0022%)  
p.A1046Tfs\*20 (0.0022%)  
p.P993Lfs\*7 (0.0022%)  
p.R173H (0.0022%)  
p.A5258T (0.0022%)  
p.K3262Efs\*38 (0.0022%)  
p.F2469Xfs\*18 (0.0022%)  
p.S4699Rfs\*4 (0.0022%)  
p.A2119Rfs\*36 (0.0022%)  
p.L851Q (0.0022%)  
p.P4909Lfs\*4 (0.0022%)  
p.S1305N (0.0022%)  
p.S843Pfs\*87 (0.0022%)  
p.D3419G (0.0022%)  
p.E2730Afs\*38 (0.0022%)  
p.E1391Gfs\*26 (0.0022%)  
p.R1524Afs\*38 (0.0022%)  
p.D3058Hfs\*10 (0.0022%)  
p.Q928\* (0.0022%)  
p.E979Dfs\*10 (0.0022%)  
p.Q3278Nfs\*52 (0.0022%)  
p.T1974M (0.0022%)  
p.P4320A (0.0022%)  
p.M5177L (0.0022%)  
p.Q3311R (0.0022%)  
p.V2338I (0.0022%)  
p.N2517Xfs\*26 (0.0022%)  
p.S3373Hfs\*19 (0.0022%)  
p.C5230S (0.0022%)  
p.D1203G (0.0022%)  
p.Q4347Rfs\*24 (0.0022%)  
p.E3587V (0.0022%)  
p.Q3886\* (0.0022%)  
p.P2084Xfs\*30 (0.0022%)  
p.A4965T (0.0022%)  
p.Q3745= (0.0022%)  
p.T3384S (0.0022%)  
p.P3490L (0.0022%)  
p.E748\* (0.0022%)  
p.L4743Sfs\*54 (0.0022%)  
p.V4105Lfs\*15 (0.0022%)  
p.R5106Afs\*41 (0.0022%)  
p.C1024R (0.0022%)  
p.L434\* (0.0022%)  
p.G5075R (0.0022%)  
p.G5075V (0.0022%)  
p.P2271S (0.0022%)  
p.S2309\* (0.0022%)  
p.D3022= (0.0022%)  
p.S660L (0.0022%)  
p.H2365Pfs\*11 (0.0022%)  
p.E122A (0.0022%)  
p.R5323C (0.0022%)  
p.P647Q (0.0022%)  
p.N1934S (0.0022%)  
p.P2234Qfs\*8 (0.0022%)  
p.P647Hfs\*283 (0.0022%)  
p.A4708T (0.0022%)  
p.Q3899K (0.0022%)  
p.D985Y (0.0022%)  
p.T4193M (0.0022%)  
p.Q3918\_Q3919dup (0.0022%)  
p.P406S (0.0022%)  
p.L1721F (0.0022%)  
p.E4481K (0.0022%)  
p.E1158\* (0.0022%)  
p.R4162Q (0.0022%)  
p.W2049\* (0.0022%)  
p.S3184= (0.0022%)  
p.P647T (0.0022%)  
p.Q4102\* (0.0022%)  
p.Q1927Kfs\*120 (0.0022%)  
p.P4269Hfs\*9 (0.0022%)  
p.D1828H (0.0022%)  
p.C1456S (0.0022%)  
p.T2137A (0.0022%)  
p.N3148S (0.0022%)  
p.V3809L (0.0022%)  
p.K4832N (0.0022%)  
p.W1491\* (0.0022%)  
p.A4594P (0.0022%)  
p.A1788T (0.0022%)  
p.P3671A (0.0022%)  
p.Q1139\* (0.0022%)  
p.R1299Pfs\*31 (0.0022%)  
p.P3823R (0.0022%)  
p.C1448S (0.0022%)  
p.G1622A (0.0022%)  
p.Q3229\* (0.0022%)  
p.S4695G (0.0022%)  
p.M5152I (0.0022%)  
p.P711= (0.0022%)  
p.D3017G (0.0022%)  
p.L1721\* (0.0022%)  
p.R2068Q (0.0022%)  
p.A4514Efs\*5 (0.0022%)  
p.S940Tfs\*28 (0.0022%)  
p.V5482Gfs\*7 (0.0022%)  
p.S2039\* (0.0022%)  
p.Q3460Rfs\*42 (0.0022%)  
p.R4162W (0.0022%)  
p.S1013A (0.0022%)  
p.R5184\* (0.0022%)  
p.R2801\* (0.0022%)  
p.I5232V (0.0022%)  
p.K287E (0.0022%)  
p.P3246Tfs\*5 (0.0022%)  
p.L1935P (0.0022%)  
p.S4748N (0.0022%)  
p.M1767V (0.0022%)  
p.S102Afs\*28 (0.0022%)  
p.T2584Qfs\*107 (0.0022%)  
p.V1281Xfs\*48 (0.0022%)  
p.E4646K (0.0022%)  
p.R1956G (0.0022%)  
p.P3102L (0.0022%)  
p.I3532T (0.0022%)  
p.T4368S (0.0022%)  
p.Q3860R (0.0022%)  
p.R3982\* (0.0022%)  
p.Q3959K (0.0022%)  
p.E1171Nfs\*41 (0.0022%)  
p.G2671S (0.0022%)  
p.T5213Rfs\*30 (0.0022%)  
p.A432V (0.0022%)  
p.W268Gfs\*36 (0.0022%)  
p.P4287T (0.0022%)  
p.S4354fs\*? (0.0022%)  
p.Q2553Hfs\*30 (0.0022%)  
p.S4297P (0.0022%)  
p.A3615T (0.0022%)  
p.P3102A (0.0022%)  
p.A1123V (0.0022%)  
p.Y2580\* (0.0022%)  
p.E2676Afs\*47 (0.0022%)  
p.L5417I (0.0022%)  
p.G2668Vfs\*4 (0.0022%)  
p.A2832Dfs\*21 (0.0022%)  
p.Y2378C (0.0022%)  
p.R2789W (0.0022%)  
p.P2839H (0.0022%)  
p.L3220F (0.0022%)  
p.F518Y (0.0022%)  
p.V629M (0.0022%)  
p.Q356\* (0.0022%)  
p.R2105H (0.0022%)  
p.E272K (0.0022%)  
p.L3521V (0.0022%)  
p.K304I (0.0022%)  
p.F4752C (0.0022%)  
p.I358V (0.0022%)  
p.L3220Ffs\*2 (0.0022%)  
p.T2699S (0.0022%)  
p.N3352S (0.0022%)  
p.R4420W (0.0022%)  
p.P2100Q (0.0022%)  
p.S83L (0.0066%)  
p.Y1458= (0.0022%)  
p.P291= (0.0022%)  
p.P69= (0.0022%)  
p.I317= (0.0022%)  
p.T877I (0.0022%)  
p.L1456F (0.0022%)  
p.K496N (0.0022%)  
p.K496\* (0.0022%)  
p.D1236N (0.0022%)  
p.Q451\* (0.0022%)  
p.P1368H (0.0022%)  
p.F558L (0.0022%)  
p.N549K (0.0022%)  
p.G1070S (0.0022%)  
p.A449S (0.0022%)  
p.I884V (0.0022%)  
p.V1367M (0.0022%)  
p.W113\* (0.022%)  
p.N212del (0.022%)  
p.Q590\* (0.0176%)  
p.A51Gfs\*37 (0.0132%)  
p.S214\* (0.0044%)  
p.N297S (0.011%)  
p.K476Qfs\*216 (0.011%)  
p.A43Rfs\*2 (0.011%)  
p.F513= (0.0088%)  
p.K288Rfs\*2 (0.0088%)  
p.S547Vfs\*85 (0.0088%)  
p.R304W (0.0088%)  
p.Y271\* (0.0088%)  
p.Y149C (0.0088%)  
p.T290Nfs\*37 (0.0088%)  
p.E122K (0.0088%)  
p.I645Sfs\*244 (0.0088%)  
p.A357Rfs\*18 (0.0044%)  
p.A418Rfs\*3 (0.0044%)  
p.T121Afs\*19 (0.0066%)  
p.N211T (0.0066%)  
p.E100Wfs\*40 (0.0066%)  
p.E122Lfs\*14 (0.0066%)  
p.V138\_K146del (0.0066%)  
p.M634Afs\*254 (0.0066%)  
p.A431Sfs\*8 (0.0066%)  
p.S615A (0.0066%)  
p.N212I (0.0066%)  
p.R436Tfs\*3 (0.0066%)  
p.N297del (0.0066%)  
p.G448Rfs\*244 (0.0066%)  
p.G120Afs\*19 (0.0066%)  
p.R256Kfs\*4 (0.0066%)  
p.Y149\* (0.0066%)  
p.P48Lfs\*56 (0.0066%)  
p.M245T (0.0066%)  
p.S371C (0.0044%)  
p.T203Nfs\*24 (0.0022%)  
p.N296D (0.0044%)  
p.L498Pfs\*135 (0.0022%)  
p.E420\* (0.0022%)  
p.N211Qfs\*16 (0.0044%)  
p.Q115\* (0.0044%)  
p.E338K (0.0044%)  
p.E73Dfs\*35 (0.0044%)  
p.S554W (0.0044%)  
p.D66Ifs\*22 (0.0044%)  
p.Q524\* (0.0044%)  
p.Y284C (0.0044%)  
p.S396F (0.0044%)  
p.S694R (0.0044%)  
p.I125Vfs\*14 (0.0044%)  
p.H187Y (0.0044%)  
p.W113Kfs\*29 (0.0044%)  
p.M539Ifs\*92 (0.0044%)  
p.L319Afs\*10 (0.0044%)  
p.L112R (0.0044%)  
p.Q84Rfs\*4 (0.0044%)  
p.G730Pfs\*151 (0.0044%)  
p.S438R (0.0044%)  
p.I294\* (0.0044%)  
p.L112F (0.0044%)  
p.Q590Gfs\*104 (0.0044%)  
p.A300V (0.0044%)  
p.H246Qfs\*13 (0.0044%)  
p.V105E (0.0044%)  
p.F136Yfs\*3 (0.0044%)  
p.S244Yfs\*3 (0.0044%)  
p.D295del (0.0044%)  
p.S396Pfs\*236 (0.0044%)  
p.A157Sfs\*3 (0.0044%)  
p.S616Lfs\*16 (0.0044%)  
p.G548Rfs\*78 (0.0044%)  
p.T318Pfs\*6 (0.0044%)  
p.E195Nfs\*13 (0.0044%)  
p.N297H (0.0044%)  
p.L368Yfs\*264 (0.0044%)  
p.I150V (0.0044%)  
p.A573Gfs\*60 (0.0044%)  
p.T267fs\*? (0.0044%)  
p.C369\* (0.0044%)  
p.W113R (0.0044%)  
p.P264Lfs\*18 (0.0044%)  
p.D406Qfs\*8 (0.0044%)  
p.L498M (0.0044%)  
p.S371Afs\*261 (0.0044%)  
p.K91\* (0.0044%)  
p.Q485\* (0.0044%)  
p.L44Dfs\*66 (0.0044%)  
p.A530Rfs\*162 (0.0044%)  
p.E179K (0.0044%)  
p.E720K (0.0022%)  
p.Q285= (0.0022%)  
p.A377T (0.0022%)  
p.T335Wfs\*4 (0.0022%)  
p.G334Dfs\*5 (0.0022%)  
p.D160Gfs\*5 (0.0022%)  
p.A300S (0.0022%)  
p.L68Ffs\*43 (0.0022%)  
p.F325Lfs\*36 (0.0022%)  
p.P650L (0.0022%)  
p.S425G (0.0022%)  
p.N308Kfs\*16 (0.0022%)  
p.N308Efs\*16 (0.0022%)  
p.I125S (0.0022%)  
p.H329Rfs\*10 (0.0022%)  
p.H329Kfs\*10 (0.0022%)  
p.D295G (0.0022%)  
p.P298= (0.0022%)  
p.E97G (0.0022%)  
p.P134S (0.0022%)  
p.K91Pfs\*34 (0.0022%)  
p.H187Sfs\*40 (0.0022%)  
p.W170\* (0.0022%)  
p.L112V (0.0022%)  
p.M539T (0.0022%)  
p.E73D (0.0022%)  
p.M184Gfs\*25 (0.0022%)  
p.D687G (0.0022%)  
p.D160Sfs\*3 (0.0022%)  
p.M123L (0.0022%)  
p.S141Lfs\*12 (0.0022%)  
p.L655V (0.0022%)  
p.N211D (0.0022%)  
p.N296Kfs\*31 (0.0022%)  
p.A257Sfs\*3 (0.0022%)  
p.S653Afs\*237 (0.0022%)  
p.D326Efs\*12 (0.0022%)  
p.N693Tfs\*196 (0.0022%)  
p.D326\* (0.0022%)  
p.R251P (0.0022%)  
p.Q316Hfs\*7 (0.0022%)  
p.A667V (0.0022%)  
p.Y643C (0.0022%)  
p.K366Rfs\*8 (0.0022%)  
p.A565T (0.0022%)  
p.K104Vfs\*8 (0.0022%)  
p.I125Gfs\*14 (0.0022%)  
p.E338Rfs\*5 (0.0022%)  
p.E100Gfs\*40 (0.0022%)  
p.Q343Sfs\*30 (0.0022%)  
p.N211Tfs\*32 (0.0022%)  
p.Y603Sfs\*27 (0.0022%)  
p.M123V (0.0022%)  
p.T121A (0.0022%)  
p.E374\* (0.0022%)  
p.P135L (0.0022%)  
p.M527V (0.0022%)  
p.T483M (0.0022%)  
p.R251W (0.0022%)  
p.T267Ifs\*10 (0.0022%)  
p.F278L (0.0022%)  
p.E327Dfs\*33 (0.0022%)  
p.T210Nfs\*17 (0.0022%)  
p.P602Lfs\*30 (0.0022%)  
p.F219Ifs\*8 (0.0022%)  
p.E122Sfs\*18 (0.0022%)  
p.T210del (0.0022%)  
p.A357fs\*? (0.0022%)  
p.G730Wfs\*158 (0.0022%)  
p.E732\_K734del (0.0022%)  
p.G302V (0.0022%)  
p.S409Qfs\*12 (0.0022%)  
p.K247Afs\*14 (0.0022%)  
p.I294Rfs\*32 (0.0022%)  
p.F78Sfs\*27 (0.0022%)  
p.L242Tfs\*13 (0.0022%)  
p.F531Wfs\*98 (0.0022%)  
p.L263Nfs\*20 (0.0022%)  
p.Y185Ffs\*22 (0.0022%)  
p.S400L (0.0022%)  
p.F133Cfs\*7 (0.0022%)  
p.F204Sfs\*4 (0.0022%)  
p.L242Afs\*6 (0.0022%)  
p.F303fs\*? (0.0022%)  
p.F273\_P274dup (0.0022%)  
p.T441Pfs\*192 (0.0022%)  
p.F204S (0.0022%)  
p.S409Kfs\*12 (0.0022%)  
p.T318Sfs\*6 (0.0022%)  
p.Y149\_L151delins\* (0.0022%)  
p.C161Vfs\*46 (0.0022%)  
p.E402Xfs\*5 (0.0022%)  
p.S363W (0.0022%)  
p.A300G (0.0022%)  
p.L68Ifs\*43 (0.0022%)  
p.K175Nfs\*52 (0.0022%)  
p.A147\* (0.0022%)  
p.R130Kfs\*8 (0.0022%)  
p.L638Gfs\*252 (0.0022%)  
p.A414D (0.0022%)  
p.S340C (0.0022%)  
p.E96Kfs\*43 (0.0022%)  
p.F597Sfs\*35 (0.0022%)  
p.G373S (0.0022%)  
p.F136Ifs\*2 (0.0022%)  
p.K247Tfs\*3 (0.0022%)  
p.I254Kfs\*4 (0.0022%)  
p.F479L (0.0022%)  
p.N347Kfs\*29 (0.0022%)  
p.R310Q (0.0022%)  
p.T193Ffs\*22 (0.0022%)  
p.I279Nfs\*9 (0.0022%)  
p.K175\* (0.0022%)  
p.H166Qfs\*10 (0.0022%)  
p.E372Rfs\*3 (0.0022%)  
p.P433fs\*? (0.0022%)  
p.E195Gfs\*32 (0.0022%)  
p.K175Nfs\*53 (0.0022%)  
p.S353A (0.0022%)  
p.L570Tfs\*122 (0.0022%)  
p.P134fs\*? (0.0022%)  
p.I64fs\*? (0.0022%)  
p.A560Gfs\*73 (0.0022%)  
p.P38= (0.0022%)  
p.I294T (0.0022%)  
p.P264Lfs\*17 (0.0022%)  
p.S533Afs\*99 (0.0022%)  
p.F41\_L44del (0.0022%)  
p.Y248\* (0.0022%)  
p.Q291fs\*? (0.0022%)  
p.L368\* (0.0022%)  
p.I395Dfs\*12 (0.0022%)  
p.L263Tfs\*4 (0.0022%)  
p.R183Kfs\*44 (0.0022%)  
p.F303Sfs\*20 (0.0022%)  
p.L520Cfs\*112 (0.0022%)  
p.N296I (0.0022%)  
p.A280Rfs\*8 (0.0022%)  
p.R183Efs\*44 (0.0022%)  
p.E388D (0.0022%)  
p.H253P (0.0022%)  
p.L90W (0.0022%)  
p.D287G (0.0022%)  
p.S80del (0.0022%)  
p.N211Y (0.0022%)  
p.L209Tfs\*18 (0.0022%)  
p.V69Cfs\*42 (0.0022%)  
p.H106Rfs\*6 (0.0022%)  
p.R314Tfs\*11 (0.0022%)  
p.L207Qfs\*19 (0.0022%)  
p.N296Tfs\*27 (0.0022%)  
p.A173D (0.0022%)  
p.L319Pfs\*5 (0.0022%)  
p.A192Rfs\*35 (0.0022%)  
p.L520Rfs\*112 (0.0022%)  
p.M93Wfs\*46 (0.0022%)  
p.E477Pfs\*154 (0.0022%)  
p.W195\* (0.0154%)  
p.I680T (0.0132%)  
p.Q257\* (0.0132%)  
p.R334K (0.0088%)  
p.E864\* (0.011%)  
p.Q217\* (0.0088%)  
p.E554K (0.0088%)  
p.P253Gfs\*5 (0.0088%)  
p.D346Vfs\*17 (0.0022%)  
p.R698W (0.0044%)  
p.Q395\* (0.0044%)  
p.Q471\* (0.0066%)  
p.Q93\* (0.0066%)  
p.L486Ifs\*6 (0.0066%)  
p.L206\* (0.0066%)  
p.S215\* (0.0066%)  
p.S576\* (0.0066%)  
p.E315\* (0.0066%)  
p.E97\* (0.0066%)  
p.D701N (0.0066%)  
p.N867Sfs\*2 (0.0066%)  
p.E533\* (0.0066%)  
p.F482Sfs\*10 (0.0022%)  
p.R556\* (0.0022%)  
p.S318\* (0.0022%)  
p.S230\* (0.0022%)  
p.R661W (0.0022%)  
p.E79\* (0.0022%)  
p.R255Q (0.0044%)  
p.R255\* (0.0044%)  
p.L550I (0.0044%)  
p.F299L (0.0044%)  
p.Y771Cfs\*23 (0.0044%)  
p.S838\* (0.0044%)  
p.K143Mfs\*19 (0.0044%)  
p.S474T (0.0022%)  
p.S565\* (0.0044%)  
p.E746K (0.0044%)  
p.S474N (0.0044%)  
p.P609Cfs\*43 (0.0044%)  
p.R455\* (0.0044%)  
p.Q504\* (0.0044%)  
p.K63\* (0.0044%)  
p.C61Y (0.0044%)  
p.S751C (0.0044%)  
p.C853\* (0.0044%)  
p.S463\* (0.0044%)  
p.D697Qfs\*23 (0.0044%)  
p.C102Yfs\*7 (0.0044%)  
p.I66Yfs\*11 (0.0044%)  
p.E53K (0.0044%)  
p.E72Vfs\*34 (0.0044%)  
p.E323Kfs\*9 (0.0044%)  
p.M695K (0.0044%)  
p.Y321\* (0.0044%)  
p.R334\* (0.0022%)  
p.P515L (0.0044%)  
p.R251\* (0.0044%)  
p.R621H (0.0044%)  
p.N480del (0.0044%)  
p.M457R (0.0044%)  
p.G617Rfs\*36 (0.0044%)  
p.E364\* (0.0044%)  
p.R467\* (0.0044%)  
p.W99\* (0.0044%)  
p.L343Sfs\*3 (0.0044%)  
p.R876C (0.0044%)  
p.G802= (0.0022%)  
p.Q504H (0.0022%)  
p.S838L (0.0022%)  
p.E884K (0.0022%)  
p.V714= (0.0022%)  
p.S758P (0.0022%)  
p.P232Rfs\*4 (0.0022%)  
p.R908\* (0.0022%)  
p.E894Q (0.0022%)  
p.P777Lfs\*33 (0.0022%)  
p.Q850H (0.0022%)  
p.E843\* (0.0022%)  
p.E551Nfs\*60 (0.0022%)  
p.Y606\* (0.0022%)  
p.A74Efs\*4 (0.0022%)  
p.V288E (0.0022%)  
p.S114= (0.0022%)  
p.E545\* (0.0022%)  
p.H600\_M605delinsQ (0.0022%)  
p.R73Sfs\*36 (0.0022%)  
p.R254Gfs\*10 (0.0022%)  
p.E837\* (0.0022%)  
p.R71Kfs\*7 (0.0022%)  
p.W563C (0.0022%)  
p.L665R (0.0022%)  
p.R798W (0.0022%)  
p.S360Pfs\*2 (0.0022%)  
p.N269\_I273del (0.0022%)  
p.Y498= (0.0022%)  
p.S127Vfs\*9 (0.0022%)  
p.R621S (0.0022%)  
p.C489Lfs\*9 (0.0022%)  
p.Q850\* (0.0022%)  
p.L343F (0.0022%)  
p.R552\* (0.0022%)  
p.C61Ifs\*5 (0.0022%)  
p.Q62\* (0.0022%)  
p.K722\* (0.0022%)  
p.F131Lfs\*15 (0.0022%)  
p.C706F (0.0022%)  
p.N399Ifs\*2 (0.0022%)  
p.F104Lfs\*7 (0.0022%)  
p.F117S (0.0022%)  
p.E119K (0.0022%)  
p.R73Lfs\*3 (0.0022%)  
p.E464\* (0.0022%)  
p.I679Rfs\*15 (0.0022%)  
p.I481F (0.0022%)  
p.A562P (0.0022%)  
p.S888Xfs\*17 (0.0022%)  
p.E837Dfs\*12 (0.0022%)  
p.E137\* (0.0022%)  
p.A264T (0.0022%)  
p.W78Gfs\*33 (0.0022%)  
p.S842\* (0.0022%)  
p.L607V (0.0022%)  
p.M825\* (0.0022%)  
p.I848R (0.0022%)  
p.P250Sfs\*20 (0.0022%)  
p.G310Dfs\*22 (0.0022%)  
p.K417Wfs\*23 (0.0022%)  
p.E440\* (0.0022%)  
p.K4\* (0.0022%)  
p.D286G (0.0022%)  
p.K548= (0.0022%)  
p.K873E (0.0022%)  
p.S393Tfs\*10 (0.0022%)  
p.I388S (0.0022%)  
p.L542Kfs\*11 (0.0022%)  
p.L642\* (0.0022%)  
p.L797S (0.0022%)  
p.S318Nfs\*13 (0.0022%)  
p.E629Dfs\*23 (0.0022%)  
p.K319Xfs\*13 (0.0022%)  
p.K740\* (0.0022%)  
p.Y651Ifs\*7 (0.0022%)  
p.L797Ffs\*14 (0.0022%)  
p.E97Qfs\*5 (0.0022%)  
p.I532N (0.0022%)  
p.S302Lfs\*5 (0.0022%)  
p.R418Sfs\*9 (0.0022%)  
p.N849I (0.0022%)  
p.L174F (0.0022%)  
p.T738\_R775del (0.0022%)  
p.Q850= (0.0022%)  
p.P396S (0.0022%)  
p.P396Nfs\*6 (0.0022%)  
p.T726Nfs\*25 (0.0022%)  
p.E559Afs\*8 (0.0022%)  
p.D156Xfs\*19 (0.0022%)  
p.S513\* (0.0022%)  
p.D156Vfs\*19 (0.0022%)  
p.V654Cfs\*4 (0.0022%)  
p.L694P (0.0022%)  
p.L657P (0.0022%)  
p.L523\* (0.0022%)  
p.P591Lfs\*20 (0.0022%)  
p.L110V (0.0022%)  
p.I196T (0.0022%)  
p.S82del (0.0022%)  
p.E693fs\*? (0.0022%)  
p.M605T (0.0022%)  
p.K530E (0.0022%)  
p.L486\* (0.0022%)  
p.P21Xfs\*? (0.0022%)  
p.K715\* (0.0022%)  
p.P371Tfs\*5 (0.0022%)  
p.L779\* (0.0022%)  
p.S567L (0.0022%)  
p.E747\* (0.0022%)  
p.D1853N (0.0198%)  
p.G873R (0.0154%)  
p.R337H (0.011%)  
p.R2138K (0.011%)  
p.E2094K (0.011%)  
p.E2097K (0.011%)  
p.E277K (0.0088%)  
p.E1129K (0.0088%)  
p.Q513\* (0.0088%)  
p.R2832C (0.0022%)  
p.F858L (0.0066%)  
p.E642K (0.0066%)  
p.T791N (0.0066%)  
p.E2950Q (0.0066%)  
p.E738K (0.0066%)  
p.R2443Q (0.0066%)  
p.E574K (0.0066%)  
p.E2449K (0.0066%)  
p.M1006I (0.0066%)  
p.E16K (0.0066%)  
p.T2947N (0.0066%)  
p.G204R (0.0044%)  
p.R2993\* (0.0044%)  
p.D273N (0.0044%)  
p.E2164Q (0.0044%)  
p.E1800K (0.0044%)  
p.D2720N (0.0044%)  
p.D863Y (0.0044%)  
p.Q1361E (0.0044%)  
p.D2395N (0.0044%)  
p.I280N (0.0044%)  
p.W1805\* (0.0044%)  
p.Q2442R (0.0044%)  
p.E1072K (0.0044%)  
p.R2598\* (0.0044%)  
p.E738Q (0.0044%)  
p.E2245K (0.0044%)  
p.V1729L (0.0044%)  
p.R1575H (0.0044%)  
p.D2841N (0.0044%)  
p.Q1825\* (0.0044%)  
p.F2558L (0.0044%)  
p.M1755I (0.0044%)  
p.V2808A (0.0044%)  
p.I1547Dfs\*4 (0.0044%)  
p.S2812Vfs\*3 (0.0044%)  
p.I735\_Y741del (0.0044%)  
p.N1549Rfs\*2 (0.0044%)  
p.S978P (0.0044%)  
p.R3047\* (0.0044%)  
p.Y2360N (0.0044%)  
p.L1764V (0.0044%)  
p.R250Q (0.0044%)  
p.K750M (0.0022%)  
p.L243S (0.0044%)  
p.T2640I (0.0044%)  
p.Q2733\* (0.0044%)  
p.D1548Mfs\*11 (0.0044%)  
p.F897I (0.0044%)  
p.D2720G (0.0044%)  
p.M2667L (0.0044%)  
p.E1776\* (0.0044%)  
p.Q2399R (0.0044%)  
p.G2072R (0.0044%)  
p.D1963G (0.0044%)  
p.F2558Lfs\*5 (0.0044%)  
p.V2119\* (0.0044%)  
p.H600Y (0.0044%)  
p.L186\* (0.0044%)  
p.S707P (0.0044%)  
p.Y2437C (0.0022%)  
p.L345V (0.0022%)  
p.I105= (0.0022%)  
p.S2184N (0.0022%)  
p.R2642K (0.0022%)  
p.D2650A (0.0022%)  
p.E2895K (0.0022%)  
p.K224N (0.0022%)  
p.G1998E (0.0022%)  
p.V245= (0.0022%)  
p.L2659= (0.0022%)  
p.E2272K (0.0022%)  
p.K1066\_L1078del (0.0022%)  
p.D2916Y (0.0022%)  
p.Q355\* (0.0022%)  
p.A350E (0.0022%)  
p.K1738N (0.0022%)  
p.Q2724\* (0.0022%)  
p.D1320N (0.0022%)  
p.P1797L (0.0022%)  
p.L612F (0.0022%)  
p.C1736Y (0.0022%)  
p.Q3014K (0.0022%)  
p.D1693N (0.0022%)  
p.P1587T (0.0022%)  
p.R1489C (0.0022%)  
p.L2455= (0.0022%)  
p.E1267K (0.0022%)  
p.Q2800\* (0.0022%)  
p.S877T (0.0022%)  
p.L1111P (0.0022%)  
p.R2138T (0.0022%)  
p.A1687T (0.0022%)  
p.D2016N (0.0022%)  
p.L1472F (0.0022%)  
p.V716L (0.0022%)  
p.E2814K (0.0022%)  
p.S378R (0.0022%)  
p.D1963Y (0.0022%)  
p.L1901F (0.0022%)  
p.F1928L (0.0022%)  
p.E1677\* (0.0022%)  
p.N1801D (0.0022%)  
p.R76I (0.0022%)  
p.R2380= (0.0022%)  
p.E1142K (0.0022%)  
p.F1877Y (0.0022%)  
p.T372A (0.0022%)  
p.E1856\* (0.0022%)  
p.T1100= (0.0022%)  
p.R2526T (0.0022%)  
p.H1802Y (0.0022%)  
p.A2067= (0.0022%)  
p.E2164K (0.0022%)  
p.S712\* (0.0022%)  
p.E649Q (0.0022%)  
p.N1739T (0.0022%)  
p.P1639A (0.0022%)  
p.Y137Tfs\*16 (0.0022%)  
p.L1419P (0.0022%)  
p.M1916I (0.0022%)  
p.T935= (0.0022%)  
p.C2464R (0.0022%)  
p.S497Y (0.0022%)  
p.Q2269\* (0.0022%)  
p.R1575Yfs\*10 (0.0022%)  
p.R1575L (0.0022%)  
p.S1492Y (0.0022%)  
p.R805\* (0.0022%)  
p.L3026V (0.0022%)  
p.E2238Gfs\*11 (0.0022%)  
p.E2096Q (0.0022%)  
p.D2085H (0.0022%)  
p.E2895Q (0.0022%)  
p.K2530N (0.0022%)  
p.N796T (0.0022%)  
p.Y454= (0.0022%)  
p.L1517F (0.0022%)  
p.K748E (0.0022%)  
p.A2893V (0.0022%)  
p.V1464L (0.0022%)  
p.E1428\* (0.0022%)  
p.W412\* (0.0022%)  
p.N2565= (0.0022%)  
p.A799V (0.0022%)  
p.L2630\* (0.0022%)  
p.T195Qfs\*8 (0.0022%)  
p.A59S (0.0022%)  
p.M779T (0.0022%)  
p.L432= (0.0022%)  
p.F897S (0.0022%)  
p.R720G (0.0022%)  
p.I68V (0.0022%)  
p.I490V (0.0022%)  
p.V185Ffs\*4 (0.0022%)  
p.F1712I (0.0022%)  
p.P1639L (0.0022%)  
p.G1065Efs\*7 (0.0022%)  
p.W2769R (0.0022%)  
p.N2106I (0.0022%)  
p.F2834= (0.0022%)  
p.G587= (0.0022%)  
p.K2700\* (0.0022%)  
p.I2948F (0.0022%)  
p.C2704\* (0.0022%)  
p.Q2828\* (0.0022%)  
p.R2459G (0.0022%)  
p.T878Rfs\*4 (0.0022%)  
p.L2767I (0.0022%)  
p.G134D (0.0022%)  
p.L176= (0.0022%)  
p.C1899\* (0.0022%)  
p.R1898\* (0.0022%)  
p.I2888T (0.0022%)  
p.K1807= (0.0022%)  
p.N1356D (0.0022%)  
p.K1323\* (0.0022%)  
p.L2492R (0.0022%)  
p.V566G (0.0022%)  
p.E2157Q (0.0022%)  
p.T2396S (0.0022%)  
p.D3041H (0.0022%)  
p.K2810Q (0.0022%)  
p.L2780R (0.0022%)  
p.F2958\* (0.0022%)  
p.K2811Sfs\*46 (0.0022%)  
p.Y380N (0.0022%)  
p.G2772E (0.0022%)  
p.G2765S (0.0022%)  
p.P2974L (0.0022%)  
p.C987Kfs\*4 (0.0022%)  
p.L663Ffs\*42 (0.0022%)  
p.R1882\* (0.0022%)  
p.V410A (0.0022%)  
p.E2039V (0.0022%)  
p.S1056Qfs\*8 (0.0022%)  
p.L3017V (0.0022%)  
p.R250\* (0.0022%)  
p.M1006V (0.0022%)  
p.L1956F (0.0022%)  
p.W2960C (0.0022%)  
p.C1838Vfs\*8 (0.0022%)  
p.N2875S (0.0022%)  
p.T452Nfs\*21 (0.0022%)  
p.R2763Q (0.0022%)  
p.R2486\* (0.0022%)  
p.Y741C (0.0022%)  
p.E2621K (0.0022%)  
p.R2161H (0.0022%)  
p.A2067D (0.0022%)  
p.W1795\* (0.0022%)  
p.L1598Sfs\*3 (0.0022%)  
p.F627C (0.0022%)  
p.K2687Nfs\*4 (0.0022%)  
p.Q1636\* (0.0022%)  
p.L608X\*6 (0.0022%)  
p.V1727I (0.0022%)  
p.M2667Wfs\*15 (0.0022%)  
p.L1231Ffs\*13 (0.0022%)  
p.E647Q (0.0022%)  
p.Y1442H (0.0022%)  
p.P604S (0.0022%)  
p.T1350M (0.0022%)  
p.Q2615H (0.0022%)  
p.Y370\* (0.0022%)  
p.D2016Y (0.0022%)  
p.Y1961C (0.0022%)  
p.S2168L (0.0022%)  
p.R3008C (0.0022%)  
p.I415F (0.0022%)  
p.M855Ifs\*24 (0.0022%)  
p.V1268\* (0.0022%)  
p.S1013\* (0.0154%)  
p.R2842C (0.011%)  
p.T3033Lfs\*29 (0.0088%)  
p.S1982Rfs\*22 (0.0088%)  
p.E2391K (0.0088%)  
p.V1269D (0.0088%)  
p.K3326\* (0.0088%)  
p.Q3394\* (0.0088%)  
p.Q1658\* (0.0044%)  
p.K2404Sfs\*7 (0.0044%)  
p.E1581\* (0.0066%)  
p.E832Q (0.0066%)  
p.Y3049C (0.0066%)  
p.S3389F (0.0066%)  
p.E2650Q (0.0066%)  
p.P2735L (0.0066%)  
p.S1659C (0.0066%)  
p.R2268K (0.0066%)  
p.L1491Kfs\*12 (0.0066%)  
p.N1066Ifs\*11 (0.0066%)  
p.D728V (0.0066%)  
p.D1360N (0.0066%)  
p.S1630\* (0.0066%)  
p.D1868Vfs\*5 (0.0066%)  
p.S2963L (0.0066%)  
p.S3397F (0.0066%)  
p.R118C (0.0066%)  
p.N765H (0.0022%)  
p.Q1987\* (0.0022%)  
p.T3033Nfs\*11 (0.0022%)  
p.E2028\* (0.0022%)  
p.G2760Pfs\*13 (0.0022%)  
p.V1269= (0.0044%)  
p.E3316Q (0.0044%)  
p.P2381S (0.0044%)  
p.F3328L (0.0044%)  
p.D2900N (0.0022%)  
p.S869= (0.0044%)  
p.E1593\* (0.0044%)  
p.E1046Q (0.0044%)  
p.Q73\* (0.0044%)  
p.D2110N (0.0044%)  
p.S1817C (0.0044%)  
p.E816Kfs\*9 (0.0044%)  
p.P2798R (0.0044%)  
p.D3095G (0.0044%)  
p.M408Afs\*24 (0.0044%)  
p.L613R (0.0044%)  
p.E1593D (0.0044%)  
p.S2052\* (0.0044%)  
p.P2257S (0.0044%)  
p.V859I (0.0044%)  
p.I423N (0.0044%)  
p.D224N (0.0044%)  
p.V1045Dfs\*5 (0.0044%)  
p.Y792H (0.0044%)  
p.P1088S (0.0044%)  
p.T515Ifs\*10 (0.0044%)  
p.D3197G (0.0044%)  
p.S1982Xfs\*22 (0.0044%)  
p.A3029V (0.0044%)  
p.L857V (0.0044%)  
p.E621K (0.0044%)  
p.M3181T (0.0044%)  
p.R3384Q (0.0044%)  
p.K437Ifs\*22 (0.0044%)  
p.L2092Pfs\*7 (0.0044%)  
p.L2745Qfs\*31 (0.0044%)  
p.E837\_K838delinsQ\* (0.0044%)  
p.D1476H (0.0044%)  
p.K1018R (0.0044%)  
p.S1968\* (0.0044%)  
p.S3400C (0.0044%)  
p.G1938V (0.0044%)  
p.G1938A (0.0044%)  
p.Y3308\* (0.0044%)  
p.S2148Y (0.0044%)  
p.A2557Vfs\*15 (0.0044%)  
p.K985I (0.0022%)  
p.E3342K (0.0022%)  
p.D1033H (0.0022%)  
p.D687H (0.0022%)  
p.L1952\* (0.0022%)  
p.G4\* (0.0022%)  
p.Q2870H (0.0022%)  
p.A1052T (0.0022%)  
p.T2398N (0.0022%)  
p.E386D (0.0022%)  
p.P983T (0.0022%)  
p.P3281= (0.0022%)  
p.H1918Cfs\*20 (0.0022%)  
p.R3237= (0.0022%)  
p.S879F (0.0022%)  
p.L2803M (0.0022%)  
p.E2175Q (0.0022%)  
p.N372H (0.0022%)  
p.E654\* (0.0022%)  
p.I770N (0.0022%)  
p.P527T (0.0022%)  
p.L1521V (0.0022%)  
p.E2847\* (0.0022%)  
p.E3167Q (0.0022%)  
p.K1094M (0.0022%)  
p.K1132= (0.0022%)  
p.S2414= (0.0022%)  
p.V494= (0.0022%)  
p.E3175K (0.0022%)  
p.E3177Q (0.0022%)  
p.E33= (0.0022%)  
p.E2846Q (0.0022%)  
p.L2926\* (0.0022%)  
p.I1851N (0.0022%)  
p.Y2222C (0.0022%)  
p.N3160= (0.0022%)  
p.E3002K (0.0022%)  
p.E2226Sfs\*6 (0.0022%)  
p.E3111\* (0.0022%)  
p.G1376R (0.0022%)  
p.Y2383F (0.0022%)  
p.D559H (0.0022%)  
p.G2743D (0.0022%)  
p.T3401= (0.0022%)  
p.D596N (0.0022%)  
p.T2564= (0.0022%)  
p.L3333V (0.0022%)  
p.E2210K (0.0022%)  
p.C3069Lfs\*5 (0.0022%)  
p.K1191N (0.0022%)  
p.E1158Q (0.0022%)  
p.R2784Q (0.0022%)  
p.V2109I (0.0022%)  
p.A2786T (0.0022%)  
p.C3304S (0.0022%)  
p.L1776\* (0.0022%)  
p.R2418T (0.0022%)  
p.L1965Ffs\*39 (0.0022%)  
p.G2544= (0.0022%)  
p.P190Gfs\*3 (0.0022%)  
p.D1033N (0.0022%)  
p.S326R (0.0022%)  
p.Q3206E (0.0022%)  
p.P493L (0.0022%)  
p.F2254Y (0.0022%)  
p.A1991G (0.0022%)  
p.T3085Nfs\*26 (0.0022%)  
p.Q1802\_R2034del (0.0022%)  
p.E3053\* (0.0022%)  
p.P94S (0.0022%)  
p.S3131P (0.0022%)  
p.V2969M (0.0022%)  
p.G1529R (0.0022%)  
p.C3287S (0.0022%)  
p.S489C (0.0022%)  
p.F1192\* (0.0022%)  
p.S3366Nfs\*4 (0.0022%)  
p.I2944F (0.0022%)  
p.E1119Rfs\*7 (0.0022%)  
p.Q1089Sfs\*10 (0.0022%)  
p.Q2157Ifs\*18 (0.0022%)  
p.D980H (0.0022%)  
p.D2913E (0.0022%)  
p.K1517Ifs\*23 (0.0022%)  
p.K382Q (0.0022%)  
p.N863X\*11 (0.0022%)  
p.F1870L (0.0022%)  
p.F1870Y (0.0022%)  
p.K2950N (0.0022%)  
p.D806Mfs\*4 (0.0022%)  
p.S450\* (0.0022%)  
p.E718Kfs\*12 (0.0022%)  
p.L2277V (0.0022%)  
p.T2662M (0.0022%)  
p.K1823Nfs\*6 (0.0022%)  
p.H2116R (0.0022%)  
p.T582P (0.0022%)  
p.T1915M (0.0022%)  
p.S2922N (0.0022%)  
p.R2336C (0.0022%)  
p.R324T (0.0022%)  
p.E2641K (0.0022%)  
p.Q2024\* (0.0022%)  
p.A262V (0.0022%)  
p.T544I (0.0022%)  
p.H763Lfs\*2 (0.0022%)  
p.N2019K (0.0022%)  
p.A487E (0.0022%)  
p.M1890Tfs\*15 (0.0022%)  
p.D651Y (0.0022%)  
p.Y3092C (0.0022%)  
p.D1280V (0.0022%)  
p.S2835\* (0.0022%)  
p.P1171L (0.0022%)  
p.Q2354\* (0.0022%)  
p.G995V (0.0022%)  
p.S2148Yfs\*2 (0.0022%)  
p.R2336P (0.0022%)  
p.V1144Cfs\*6 (0.0022%)  
p.V2969Cfs\*7 (0.0022%)  
p.V1804Kfs\*2 (0.0022%)  
p.E1254G (0.0022%)  
p.Y232H (0.0022%)  
p.N1377\_T1378ins\* (0.0022%)  
p.Y949C (0.0022%)  
p.V1270del (0.0022%)  
p.I1929V (0.0022%)  
p.S2127C (0.0022%)  
p.I1957V (0.0022%)  
p.E470Kfs\*15 (0.0022%)  
p.D2723Y (0.0022%)  
p.R2318\* (0.0022%)  
p.C554W (0.0022%)  
p.T582Kfs\*3 (0.0022%)  
p.A2711V (0.0022%)  
p.I1859Kfs\*3 (0.0022%)  
p.K513R (0.0022%)  
p.S2978\* (0.0022%)  
p.L1687P (0.0022%)  
p.R1704T (0.0022%)  
p.N1833Ifs\*7 (0.0022%)  
p.Y1894\* (0.0022%)  
p.I2495T (0.0022%)  
p.N1758\_Y1762del (0.0022%)  
p.V2759L (0.0022%)  
p.A2557V (0.0022%)  
p.K1941\_K2064del (0.0022%)  
p.Q2485Q (0.0022%)  
p.G2837V (0.0022%)  
p.L1292\_Q1295del (0.0022%)  
p.R2991C (0.0022%)  
p.A199G (0.0022%)  
p.K601Rfs\*14 (0.0022%)  
p.I594Yfs\*20 (0.0022%)  
p.G2748D (0.0022%)  
p.K1180N (0.0022%)  
p.V1283Kfs\*2 (0.0022%)  
p.D596H (0.0022%)  
p.L929Ffs\*8 (0.0022%)  
p.G934\* (0.0022%)  
p.L2106P (0.0022%)  
p.H1731N (0.0022%)  
p.E2959K (0.0022%)  
p.L2357Vfs\*2 (0.0022%)  
p.R2034C (0.0022%)  
p.D1355Y (0.0022%)  
p.D420Tfs\*10 (0.0022%)  
p.E2663V (0.0022%)  
p.L834Ffs\*7 (0.0022%)  
p.N2135Kfs\*3 (0.0022%)  
p.P3202= (0.0022%)  
p.T774A (0.0022%)  
p.R2401\* (0.0022%)  
p.S1760A (0.0022%)  
p.Y296C (0.0022%)  
p.R2424S (0.0022%)  
p.R2502Lfs\*24 (0.0022%)  
p.N2553Tfs\*95 (0.0022%)  
p.E1838Q (0.0022%)  
p.T2515I (0.0022%)  
p.G2508S (0.0022%)  
p.K2514E (0.0022%)  
p.T302Nfs\*3 (0.0022%)  
p.T1557S (0.0022%)  
p.T3357R (0.0022%)  
p.N2814S (0.0022%)  
p.E2236Kfs\*5 (0.0022%)  
p.H2415N (0.0022%)  
p.D3095E (0.0022%)  
p.Y3049S (0.0022%)  
p.C1853Vfs\*10 (0.0022%)  
p.H2415R (0.0022%)  
p.S278N (0.0022%)  
p.Y3035C (0.0022%)  
p.G1206D (0.0022%)  
p.D885Afs\*10 (0.0022%)  
p.T2337I (0.0022%)  
p.C419Wfs\*11 (0.0022%)  
p.G2353R (0.0022%)  
p.E305Gfs\*2 (0.0022%)  
p.E64\* (0.0044%)  
p.R737C (0.0022%)  
p.K148= (0.0022%)  
p.E76\* (0.0022%)  
p.D586G (0.0022%)  
p.I266= (0.0022%)  
p.L30I (0.0022%)  
p.R144C (0.0044%)  
p.E921Q (0.0044%)  
p.R638T (0.0044%)  
p.L162= (0.0044%)  
p.R97H (0.0044%)  
p.S948L (0.0022%)  
p.V11G (0.0022%)  
p.S374P (0.0022%)  
p.S694\* (0.0022%)  
p.K778N (0.0022%)  
p.Q705H (0.0022%)  
p.H991N (0.0022%)  
p.P1047S (0.0022%)  
p.S595C (0.0022%)  
p.A106S (0.0022%)  
p.P1006A (0.0022%)  
p.V664= (0.0044%)  
p.T145= (0.0044%)  
p.V379I (0.0044%)  
p.L19V (0.0022%)  
p.Y117N (0.0022%)  
p.V78E (0.0022%)  
p.F368I (0.0022%)  
p.Y740C (0.0022%)  
p.P49R (0.0022%)  
p.A219P (0.0022%)  
p.A650T (0.0022%)  
p.Y415\* (0.0022%)  
p.A505= (0.0022%)  
p.Q583H (0.0022%)  
p.L216V (0.0022%)  
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p.Q648K (0.0022%)  
p.C334S (0.0022%)  
p.L342I (0.0022%)  
p.K261E (0.0022%)  
p.D49N (0.0088%)  
p.E214D (0.0066%)  
p.A191V (0.0044%)  
p.C156F (0.0022%)  
p.R161P (0.0022%)  
p.L186= (0.0022%)  
p.I98L (0.0022%)  
p.R27G (0.0022%)  
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p.E159K (0.0066%)  
p.Q128H (0.0022%)  
p.L212V (0.0022%)  
p.V167A (0.0022%)  
p.I112K (0.0022%)  
p.L858R (0.0352%)  
p.E330K (0.0154%)  
p.A289V (0.0132%)  
p.E282K (0.011%)  
p.E114K (0.011%)  
p.A1118T (0.0044%)  
p.V592I (0.0088%)  
p.R1068Q (0.0066%)  
p.F997= (0.0066%)  
p.G719A (0.0066%)  
p.R138G (0.0066%)  
p.G322S (0.0066%)  
p.E866Q (0.0066%)  
p.A882T (0.0066%)  
p.K860I (0.0066%)  
p.L833M (0.0066%)  
p.E746\_A750del (0.0066%)  
p.T790M (0.0066%)  
p.R669Q (0.0044%)  
p.N413K (0.0044%)  
p.E709K (0.0044%)  
p.R222H (0.0044%)  
p.C636W (0.0044%)  
p.R958H (0.0044%)  
p.A1201V (0.0044%)  
p.A17V (0.0044%)  
p.T1041A (0.0044%)  
p.V774M (0.0044%)  
p.L887I (0.0044%)  
p.Q787= (0.0044%)  
p.(729\_761)del? (0.0044%)  
p.V769L (0.0044%)  
p.T847I (0.0044%)  
p.S752\_I759del (0.0044%)  
p.K846R (0.0044%)  
p.L707= (0.0044%)  
p.P1073T (0.0022%)  
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p.R680Q (0.0022%)  
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p.N422S (0.0022%)  
p.Q218= (0.0022%)  
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p.L119S (0.0022%)  
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p.V599I (0.0022%)  
p.N808K (0.0022%)  
p.I664F (0.0022%)  
p.R1031Q (0.0022%)  
p.T629= (0.0022%)  
p.L815F (0.0022%)  
p.A127T (0.0022%)  
p.E690V (0.0022%)  
p.N552T (0.0022%)  
p.Y610= (0.0022%)  
p.E257K (0.0022%)  
p.A147T (0.0022%)  
p.D837N (0.0022%)  
p.L792= (0.0022%)  
p.R334= (0.0022%)  
p.V765E (0.0022%)  
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p.S768I (0.0022%)  
p.G339E (0.0022%)  
p.I407V (0.0022%)  
p.N1112S (0.0022%)  
p.D314G (0.0022%)  
p.R973Q (0.0022%)  
p.E928V (0.0022%)  
p.C526S (0.0022%)  
p.T638M (0.0022%)  
p.L387V (0.0022%)  
p.A750T (0.0022%)  
p.R831H (0.0022%)  
p.N280K (0.0022%)  
p.D916= (0.0022%)  
p.P596A (0.0022%)  
p.C591\* (0.0022%)  
p.S1064G (0.0022%)  
p.R958= (0.0022%)  
p.Y801Lfs\*41 (0.0022%)  
p.T273A (0.0022%)  
p.S198= (0.0022%)  
p.T847K (0.0022%)  
p.R832L (0.0022%)  
p.D994= (0.0022%)  
p.D247Y (0.0022%)  
p.Q71P (0.0022%)  
p.T263P (0.0022%)  
p.V398I (0.0022%)  
p.E84V (0.0022%)  
p.R836= (0.0022%)  
p.V1200= (0.0022%)  
p.H773\_V774insH (0.0022%)  
p.V786M (0.0022%)  
p.A839T (0.0022%)  
p.H773\_V774insNPH (0.0022%)  
p.A289T (0.0022%)  
p.G857E (0.0022%)  
p.G63R (0.0022%)  
p.Q134\* (0.0088%)  
p.I2304Hfs\*9 (0.011%)  
p.P6Rfs\*27 (0.011%)  
p.A21T (0.0088%)  
p.D2252N (0.0066%)  
p.L2045F (0.0066%)  
p.Y2023C (0.0066%)  
p.R2400\* (0.0066%)  
p.N328Y (0.0066%)  
p.E2266\* (0.0022%)  
p.E2290\* (0.0022%)  
p.S851= (0.0044%)  
p.F1304L (0.0044%)  
p.E1540D (0.0044%)  
p.D2438N (0.0044%)  
p.E2344Q (0.0044%)  
p.E2276K (0.0044%)  
p.S537C (0.0044%)  
p.P1418L (0.0044%)  
p.R5= (0.0044%)  
p.H1724Y (0.0044%)  
p.D2435H (0.0044%)  
p.I2304Lfs\*2 (0.0044%)  
p.R1931H (0.0044%)  
p.S1388T (0.0044%)  
p.A3S (0.0044%)  
p.Q1080\* (0.0044%)  
p.D606Y (0.0044%)  
p.C937\* (0.0044%)  
p.T1754Sfs\*11 (0.0044%)  
p.G1347A (0.0044%)  
p.P2274T (0.0044%)  
p.S2179L (0.0044%)  
p.Q1656P (0.0044%)  
p.T1001S (0.0044%)  
p.D1733Y (0.0044%)  
p.V1064L (0.0044%)  
p.L2199Ifs\*4 (0.0044%)  
p.E2261D (0.0044%)  
p.G1019A (0.0044%)  
p.C444F (0.0044%)  
p.C1002Wfs\*3 (0.0044%)  
p.R2400Qfs\*16 (0.0044%)  
p.A2331S (0.0022%)  
p.G1825D (0.0022%)  
p.Y1414= (0.0022%)  
p.L1737= (0.0022%)  
p.E2261= (0.0022%)  
p.K2132= (0.0022%)  
p.W2253C (0.0022%)  
p.T2355P (0.0022%)  
p.R259S (0.0022%)  
p.Q270H (0.0022%)  
p.V1015A (0.0022%)  
p.I988M (0.0022%)  
p.T2159= (0.0022%)  
p.R1675H (0.0022%)  
p.A422T (0.0022%)  
p.E2143Q (0.0022%)  
p.G278= (0.0022%)  
p.H151Y (0.0022%)  
p.E1174K (0.0022%)  
p.D928H (0.0022%)  
p.G1545D (0.0022%)  
p.D1306N (0.0022%)  
p.S801L (0.0022%)  
p.T2355Lfs\*3 (0.0022%)  
p.D1481= (0.0022%)  
p.Q921= (0.0022%)  
p.K368= (0.0022%)  
p.S2426L (0.0022%)  
p.G1000R (0.0022%)  
p.C2085F (0.0022%)  
p.N311H (0.0022%)  
p.A1951G (0.0022%)  
p.C1342= (0.0022%)  
p.L566F (0.0022%)  
p.D1228H (0.0022%)  
p.A378S (0.0022%)  
p.S1050= (0.0022%)  
p.Q289H (0.0022%)  
p.C1067\* (0.0022%)  
p.R1604S (0.0022%)  
p.G476\* (0.0022%)  
p.S955N (0.0022%)  
p.Y217F (0.0022%)  
p.S1110F (0.0022%)  
p.A862V (0.0022%)  
p.R1630H (0.0022%)  
p.K1514R (0.0022%)  
p.P2297Lfs\*9 (0.0022%)  
p.R268S (0.0022%)  
p.P2297Afs\*11 (0.0022%)  
p.C1496S (0.0022%)  
p.I2084L (0.0022%)  
p.S965C (0.0022%)  
p.T2074= (0.0022%)  
p.P2189Ffs\*34 (0.0022%)  
p.E2420Vfs\*3 (0.0022%)  
p.N989T (0.0022%)  
p.S2215N (0.0022%)  
p.R2256H (0.0022%)  
p.R1567W (0.0022%)  
p.S2153A (0.0022%)  
p.L1690= (0.0022%)  
p.K849Rfs\*6 (0.0022%)  
p.S1804L (0.0022%)  
p.D2152Y (0.0022%)  
p.D1782N (0.0022%)  
p.R1630G (0.0022%)  
p.H2194Wfs\*12 (0.0022%)  
p.S2081Ifs\*15 (0.0022%)  
p.K788E (0.0022%)  
p.D2435G (0.0022%)  
p.Y2414\* (0.0022%)  
p.E2276A (0.0022%)  
p.E2290V (0.0022%)  
p.P1033Hfs\*4 (0.0022%)  
p.Q1634\_D1637dup (0.0022%)  
p.G2381= (0.0022%)  
p.Q1811K (0.0022%)  
p.L1717I (0.0022%)  
p.Y967\* (0.0022%)  
p.V2469I (0.0022%)  
p.C579F (0.0022%)  
p.A2017V (0.0022%)  
p.H2404Tfs\*12 (0.0022%)  
p.K1725R (0.0022%)  
p.V1666F (0.0022%)  
p.Q2367\* (0.0022%)  
p.I1006V (0.0022%)  
p.Q1479X\*72 (0.0022%)  
p.S1836A (0.0022%)  
p.L1569P (0.0022%)  
p.S2136Efs\*2 (0.0022%)  
p.R1158H (0.0066%)  
p.A360V (0.0066%)  
p.W1182\* (0.0022%)  
p.Q180H (0.0044%)  
p.T29M (0.0044%)  
p.K326N (0.0044%)  
p.A388= (0.0044%)  
p.E248\* (0.0044%)  
p.R1508Q (0.0044%)  
p.E824Q (0.0022%)  
p.E354K (0.0022%)  
p.D627N (0.0022%)  
p.R659Q (0.0022%)  
p.T218Lfs\*8 (0.0022%)  
p.R1379Q (0.0022%)  
p.E1503K (0.0022%)  
p.E1286K (0.0022%)  
p.T1296N (0.0022%)  
p.A780Qfs\*39 (0.0022%)  
p.D98= (0.0022%)  
p.E965K (0.0022%)  
p.E850K (0.0022%)  
p.E174D (0.0022%)  
p.P617= (0.0022%)  
p.P769= (0.0022%)  
p.L757= (0.0022%)  
p.G859S (0.0022%)  
p.N33K (0.0022%)  
p.E135\* (0.0022%)  
p.S195L (0.0484%)  
p.R145W (0.0176%)  
p.K198\* (0.0154%)  
p.E93\* (0.011%)  
p.Q80\* (0.011%)  
p.D274Cfs\*4 (0.0132%)  
p.Q327\* (0.011%)  
p.H238D (0.011%)  
p.D300N (0.0088%)  
p.E284K (0.0088%)  
p.R292\* (0.0088%)  
p.R88G (0.0088%)  
p.R315\* (0.0088%)  
p.Y369C (0.0088%)  
p.D197G (0.0088%)  
p.Q293\* (0.0088%)  
p.S291\* (0.0088%)  
p.Q174\* (0.0066%)  
p.R298H (0.0066%)  
p.G260Afs\*27 (0.0066%)  
p.R239K (0.0066%)  
p.W302Gfs\*27 (0.0066%)  
p.P279S (0.0066%)  
p.G334R (0.0066%)  
p.S251Rfs\*36 (0.0022%)  
p.E213Q (0.0044%)  
p.W186\* (0.0044%)  
p.R239T (0.0044%)  
p.L55= (0.0044%)  
p.L247F (0.0044%)  
p.S268C (0.0044%)  
p.S95\* (0.0044%)  
p.K333Tfs\*6 (0.0044%)  
p.F64L (0.0044%)  
p.L248= (0.0044%)  
p.D240V (0.0044%)  
p.N322Kfs\*4 (0.0044%)  
p.L396V (0.0044%)  
p.R145Q (0.0044%)  
p.P102L (0.0044%)  
p.V301F (0.0044%)  
p.S299P (0.0044%)  
p.G78Efs\*7 (0.0044%)  
p.G252\* (0.0044%)  
p.E284G (0.0044%)  
p.P336Lfs\*4 (0.0044%)  
p.K368\* (0.0044%)  
p.Q338\* (0.0044%)  
p.S262I (0.0044%)  
p.S251Kfs\*5 (0.0044%)  
p.D300G (0.0044%)  
p.Y176\* (0.0044%)  
p.R285T (0.0044%)  
p.H90Qfs\*3 (0.0044%)  
p.F351S (0.0044%)  
p.S193C (0.0044%)  
p.E232\* (0.0044%)  
p.E182D (0.0022%)  
p.P283T (0.0022%)  
p.R366T (0.0022%)  
p.E310D (0.0022%)  
p.R121P (0.0022%)  
p.K242I (0.0022%)  
p.P212\_E213delinsQ (0.0022%)  
p.R181K (0.0022%)  
p.H238Qfs\*17 (0.0022%)  
p.D184Tfs\*24 (0.0022%)  
p.R285I (0.0022%)  
p.Y124Lfs\*19 (0.0022%)  
p.S299F (0.0022%)  
p.P288R (0.0022%)  
p.V332E (0.0022%)  
p.E93Mfs\*7 (0.0022%)  
p.L396P (0.0022%)  
p.S18G (0.0022%)  
p.C257R (0.0022%)  
p.T329Nfs\*13 (0.0022%)  
p.N245Y (0.0022%)  
p.E387\_L396del (0.0022%)  
p.L87Qfs\*11 (0.0022%)  
p.I246F (0.0022%)  
p.L247P (0.0022%)  
p.A290T (0.0022%)  
p.D240G (0.0022%)  
p.S244A (0.0022%)  
p.E190Nfs\*18 (0.0022%)  
p.S195P (0.0022%)  
p.A110Qfs\*4 (0.0022%)  
p.S268F (0.0022%)  
p.R366S (0.0022%)  
p.F316I (0.0022%)  
p.R181Nfs\*30 (0.0022%)  
p.E363\* (0.0022%)  
p.Y171Ifs\*14 (0.0022%)  
p.N356\_L357dup (0.0022%)  
p.K218\* (0.0022%)  
p.I84Vfs\*2 (0.0022%)  
p.C358R (0.0022%)  
p.E371Afs\*11 (0.0022%)  
p.H132P (0.0022%)  
p.S340Ifs\*17 (0.0022%)  
p.P74Rfs\*16 (0.0022%)  
p.K374\* (0.0022%)  
p.A389T (0.0022%)  
p.P283S (0.0022%)  
p.N245S (0.0022%)  
p.T307R (0.0022%)  
p.R143Kfs\*8 (0.0022%)  
p.Y124\* (0.0022%)  
p.Q330Sfs\*11 (0.0022%)  
p.P317R (0.0022%)  
p.I352Hfs\*12 (0.0022%)  
p.G260\_I261del (0.0022%)  
p.G305V (0.0022%)  
p.A110Lfs\*5 (0.0022%)  
p.Q174Sfs\*34 (0.0022%)  
p.L207\* (0.0022%)  
p.A110\_L116del (0.0022%)  
p.S16R (0.0022%)  
p.Q327Hfs\*2 (0.0022%)  
p.E150\* (0.0022%)  
p.S350Rfs\*25 (0.0022%)  
p.R86Tfs\*7 (0.0022%)  
p.M130Wfs\*9 (0.0022%)  
p.L160Wfs\*3 (0.0022%)  
p.P212Qfs\*5 (0.0022%)  
p.E346\* (0.0022%)  
p.Q293Kfs\*36 (0.0022%)  
p.A226G (0.0022%)  
p.R239I (0.0022%)  
p.N245I (0.0022%)  
p.L87Efs\*8 (0.0022%)  
p.L320H (0.0022%)  
p.G112S (0.0066%)  
p.E246K (0.0066%)  
p.M40I (0.0066%)  
p.P135S (0.0066%)  
p.E326K (0.0066%)  
p.Y424F (0.0066%)  
p.T274= (0.0044%)  
p.E353K (0.0044%)  
p.G269S (0.0044%)  
p.S420L (0.0044%)  
p.R392H (0.0044%)  
p.Q296\* (0.0044%)  
p.A10V (0.0022%)  
p.T248M (0.0022%)  
p.Q293R (0.0022%)  
p.R357H (0.0022%)  
p.P443A (0.0022%)  
p.K155N (0.0022%)  
p.Y201H (0.0022%)  
p.S52= (0.0022%)  
p.I73= (0.0022%)  
p.V134E (0.0022%)  
p.H227N (0.0022%)  
p.P423T (0.0022%)  
p.E239K (0.0066%)  
p.E689= (0.0044%)  
p.A888S (0.0044%)  
p.F251Sfs\*39 (0.0022%)  
p.D717Y (0.0022%)  
p.E181Q (0.0022%)  
p.E868K (0.0022%)  
p.R40C (0.0022%)  
p.R87G (0.0022%)  
p.I277V (0.0022%)  
p.S887= (0.0022%)  
p.E552K (0.0154%)  
p.S1803\* (0.011%)  
p.I3661F (0.011%)  
p.T3424M (0.011%)  
p.N3652Pfs\*13 (0.011%)  
p.E575K (0.0088%)  
p.E1518\* (0.0088%)  
p.L1389P (0.0088%)  
p.S1354Ffs\*7 (0.0088%)  
p.R235Q (0.0088%)  
p.V2672M (0.0088%)  
p.R1542\* (0.0044%)  
p.D1198Rfs\*4 (0.0044%)  
p.R187W (0.0066%)  
p.R653Q (0.0044%)  
p.E2010K (0.0066%)  
p.D168N (0.0066%)  
p.D4430N (0.0066%)  
p.D1800H (0.0066%)  
p.D3928N (0.0066%)  
p.S2075\* (0.0066%)  
p.E38K (0.0066%)  
p.Q1421K (0.0066%)  
p.Q921\* (0.0066%)  
p.S991Ffs\*31 (0.0066%)  
p.Q1019\* (0.0066%)  
p.R807Dfs\*3 (0.0066%)  
p.N740T (0.0066%)  
p.A1791Pfs\*15 (0.0066%)  
p.Q3493Rfs\*23 (0.0066%)  
p.E805Dfs\*3 (0.0066%)  
p.S4243\* (0.0066%)  
p.E2095\* (0.0066%)  
p.P3798L (0.0066%)  
p.E358\* (0.0066%)  
p.V732L (0.0066%)  
p.E694\* (0.0066%)  
p.E1695Nfs\*6 (0.0066%)  
p.S2060F (0.0044%)  
p.E1334K (0.0022%)  
p.S1145L (0.0022%)  
p.G635= (0.0022%)  
p.R806Tfs\*14 (0.0044%)  
p.P2495Lfs\*4 (0.0044%)  
p.E1412Rfs\*5 (0.0022%)  
p.N2072Kfs\*51 (0.0044%)  
p.E1183\* (0.0022%)  
p.E2212K (0.0044%)  
p.A3318Gfs\*30 (0.0022%)  
p.Y2239\* (0.0022%)  
p.E1400\* (0.0044%)  
p.E1519K (0.0044%)  
p.D491H (0.0044%)  
p.R715T (0.0044%)  
p.E3088K (0.0044%)  
p.S3554Y (0.0044%)  
p.E841\* (0.0022%)  
p.E2825K (0.0044%)  
p.K2911Nfs\*19 (0.0044%)  
p.E2788\* (0.0022%)  
p.T3961K (0.0044%)  
p.E3305Q (0.0044%)  
p.E885Q (0.0044%)  
p.E2260\* (0.0044%)  
p.I1052Nfs\*7 (0.0044%)  
p.G578S (0.0044%)  
p.E1925V (0.0044%)  
p.S3526L (0.0044%)  
p.E800\* (0.0044%)  
p.S2607P (0.0044%)  
p.P3228Lfs\*42 (0.0044%)  
p.L1489P (0.0044%)  
p.V3252F (0.0044%)  
p.L355H (0.0044%)  
p.G3657A (0.0044%)  
p.S1094P (0.0044%)  
p.N788Kfs\*2 (0.0044%)  
p.G772V (0.0044%)  
p.Q3450H (0.0044%)  
p.E4573K (0.0044%)  
p.D166E (0.0044%)  
p.E3234K (0.0044%)  
p.D977V (0.0044%)  
p.E2910\* (0.0044%)  
p.K1422\* (0.0044%)  
p.D329Rfs\*2 (0.0044%)  
p.E4454K (0.0044%)  
p.R1470\* (0.0044%)  
p.E1273\* (0.0044%)  
p.E1567K (0.0044%)  
p.V2527I (0.0044%)  
p.K2052\* (0.0044%)  
p.G2488E (0.0044%)  
p.V1373Lfs\*4 (0.0044%)  
p.D1062= (0.0044%)  
p.T791Rfs\*2 (0.0044%)  
p.S4132C (0.0044%)  
p.S3373\* (0.0044%)  
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p.P4530S (0.0044%)  
p.E2503K (0.0044%)  
p.I1774V (0.0044%)  
p.V3719M (0.0044%)  
p.S2292\* (0.0044%)  
p.S946L (0.0044%)  
p.S3979C (0.0044%)  
p.S3441C (0.0044%)  
p.R732\* (0.0044%)  
p.S3863P (0.0044%)  
p.N251K (0.0044%)  
p.T4012M (0.0044%)  
p.V2269M (0.0044%)  
p.V553L (0.0044%)  
p.Q1926\* (0.0044%)  
p.L4394V (0.0044%)  
p.Y4564C (0.0044%)  
p.H328N (0.0044%)  
p.V3616I (0.0044%)  
p.E4K (0.0044%)  
p.D914N (0.0044%)  
p.E1304\_Y1312delinsD (0.0044%)  
p.T3461Nfs\*17 (0.0044%)  
p.P3367Tfs\*48 (0.0044%)  
p.V482S (0.0044%)  
p.D3166N (0.0044%)  
p.Q3524E (0.0044%)  
p.Y2690Lfs\*33 (0.0044%)  
p.G2005E (0.0044%)  
p.S1574L (0.0044%)  
p.Q1343\* (0.0044%)  
p.Q3141\* (0.0044%)  
p.A3608E (0.0044%)  
p.F614L (0.0022%)  
p.A131V (0.0022%)  
p.V862L (0.0022%)  
p.R1064G (0.0022%)  
p.R637Q (0.0022%)  
p.E2149K (0.0022%)  
p.L419= (0.0022%)  
p.D667H (0.0022%)  
p.E561K (0.0022%)  
p.D3618Y (0.0022%)  
p.D1851V (0.0022%)  
p.R672\* (0.0022%)  
p.G2252C (0.0022%)  
p.S3555Y (0.0022%)  
p.S3054A (0.0022%)  
p.S1152Y (0.0022%)  
p.Y1733N (0.0022%)  
p.E843V (0.0022%)  
p.W1561R (0.0022%)  
p.D2097Y (0.0022%)  
p.T2685S (0.0022%)  
p.L2402Sfs\*13 (0.0022%)  
p.P3350= (0.0022%)  
p.T2153= (0.0022%)  
p.Y2150C (0.0022%)  
p.D1479H (0.0022%)  
p.V2096G (0.0022%)  
p.V2610G (0.0022%)  
p.V2017G (0.0022%)  
p.P2612S (0.0022%)  
p.Q2848\* (0.0022%)  
p.Q906\* (0.0022%)  
p.G2211= (0.0022%)  
p.I2489Sfs\*10 (0.0022%)  
p.P1977S (0.0022%)  
p.V135A (0.0022%)  
p.G2744D (0.0022%)  
p.I2483V (0.0022%)  
p.D1313\_S1314ins\* (0.0022%)  
p.A3169V (0.0022%)  
p.I1159Lfs\*28 (0.0022%)  
p.T3104M (0.0022%)  
p.S2187F (0.0022%)  
p.S1222F (0.0022%)  
p.H3931Y (0.0022%)  
p.P1810S (0.0022%)  
p.T4012A (0.0022%)  
p.P1634= (0.0022%)  
p.T1441= (0.0022%)  
p.H3656P (0.0022%)  
p.Q1943H (0.0022%)  
p.S3593C (0.0022%)  
p.V952M (0.0022%)  
p.P3630= (0.0022%)  
p.R2545K (0.0022%)  
p.P2141A (0.0022%)  
p.S1073Cfs\*21 (0.0022%)  
p.E2003\* (0.0022%)  
p.N1429K (0.0022%)  
p.S760\* (0.0022%)  
p.A608= (0.0022%)  
p.P3155L (0.0022%)  
p.P954S (0.0022%)  
p.E783Q (0.0022%)  
p.E789K (0.0022%)  
p.K954Rfs\*20 (0.0022%)  
p.L2693= (0.0022%)  
p.E2201Q (0.0022%)  
p.Q2822H (0.0022%)  
p.D2457N (0.0022%)  
p.E2583K (0.0022%)  
p.E2500Q (0.0022%)  
p.E2846K (0.0022%)  
p.K2833N (0.0022%)  
p.V3195= (0.0022%)  
p.S1298C (0.0022%)  
p.N870Tfs\*11 (0.0022%)  
p.M1688I (0.0022%)  
p.Q1727\* (0.0022%)  
p.K583N (0.0022%)  
p.A2105Gfs\*18 (0.0022%)  
p.E2388= (0.0022%)  
p.D2373N (0.0022%)  
p.V2718= (0.0022%)  
p.L1407Yfs\*2 (0.0022%)  
p.M1508Wfs\*39 (0.0022%)  
p.E2583\* (0.0022%)  
p.E417K (0.0022%)  
p.E126K (0.0022%)  
p.V732M (0.0022%)  
p.E2820K (0.0022%)  
p.E3157K (0.0022%)  
p.T2581= (0.0022%)  
p.D1800G (0.0022%)  
p.P1118R (0.0022%)  
p.L3498= (0.0022%)  
p.R881C (0.0022%)  
p.D864N (0.0022%)  
p.E800Gfs\*21 (0.0022%)  
p.K242E (0.0022%)  
p.S1013Lfs\*8 (0.0022%)  
p.E4283Q (0.0022%)  
p.R1418\* (0.0022%)  
p.Q2852\* (0.0022%)  
p.D2835Y (0.0022%)  
p.S2908= (0.0022%)  
p.E2769K (0.0022%)  
p.R4160H (0.0022%)  
p.H3638Pfs\*7 (0.0022%)  
p.R648W (0.0022%)  
p.E2260K (0.0022%)  
p.E2176\* (0.0022%)  
p.T2928Sfs\*34 (0.0022%)  
p.W411C (0.0022%)  
p.G1298V (0.0022%)  
p.R844\* (0.0022%)  
p.G3740A (0.0022%)  
p.E86K (0.0022%)  
p.S763I (0.0022%)  
p.R3583P (0.0022%)  
p.R3027\* (0.0022%)  
p.V2023= (0.0022%)  
p.D1536Y (0.0022%)  
p.I2405T (0.0022%)  
p.E3401D (0.0022%)  
p.V2621Cfs\*3 (0.0022%)  
p.R806H (0.0022%)  
p.Q2946= (0.0022%)  
p.P799= (0.0022%)  
p.R1265\* (0.0022%)  
p.A2840Xfs\*7 (0.0022%)  
p.K1044R (0.0022%)  
p.C2411S (0.0022%)  
p.Q256\* (0.0022%)  
p.E563\* (0.0022%)  
p.S1566F (0.0022%)  
p.V2676= (0.0022%)  
p.E1670\* (0.0022%)  
p.G3529C (0.0022%)  
p.F988= (0.0022%)  
p.N1781K (0.0022%)  
p.R648= (0.0022%)  
p.I1835= (0.0022%)  
p.N2002Kfs\*2 (0.0022%)  
p.G109V (0.0022%)  
p.Q2477K (0.0022%)  
p.R275K (0.0022%)  
p.Q4085H (0.0022%)  
p.D595N (0.0022%)  
p.E175Ifs\*196 (0.0022%)  
p.R4079K (0.0022%)  
p.S4391T (0.0022%)  
p.S3044T (0.0022%)  
p.D2076N (0.0022%)  
p.I2169Sfs\*7 (0.0022%)  
p.A3623V (0.0022%)  
p.S4367= (0.0022%)  
p.R2101L (0.0022%)  
p.Y4157D (0.0022%)  
p.L4228F (0.0022%)  
p.K1114\* (0.0022%)  
p.R1137Vfs\*17 (0.0022%)  
p.N3331\_P3333del (0.0022%)  
p.V3914Sfs\*35 (0.0022%)  
p.N1239K (0.0022%)  
p.D3035= (0.0022%)  
p.P3207A (0.0022%)  
p.T2261M (0.0022%)  
p.S3029\* (0.0022%)  
p.S377= (0.0022%)  
p.S2120F (0.0022%)  
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p.R1945del (0.0022%)  
p.S1310L (0.0022%)  
p.D2785N (0.0022%)  
p.F609Lfs\*2 (0.0022%)  
p.I1325S (0.0022%)  
p.D2401N (0.0022%)  
p.R3668W (0.0022%)  
p.T4014M (0.0022%)  
p.P1704Qfs\*11 (0.0022%)  
p.Q3127Sfs\*3 (0.0022%)  
p.D1539N (0.0022%)  
p.S1268F (0.0022%)  
p.T277R (0.0022%)  
p.V112L (0.0022%)  
p.N3436= (0.0022%)  
p.P3365R (0.0022%)  
p.M1647V (0.0022%)  
p.E2749D (0.0022%)  
p.V2562= (0.0022%)  
p.A1762T (0.0022%)  
p.E2846Dfs\*44 (0.0022%)  
p.A3392S (0.0022%)  
p.K2930\* (0.0022%)  
p.D73Pfs\*6 (0.0022%)  
p.T2300M (0.0022%)  
p.R2027H (0.0022%)  
p.T2219K (0.0022%)  
p.L3150V (0.0022%)  
p.A2088V (0.0022%)  
p.F2671L (0.0022%)  
p.E4500Nfs\*61 (0.0022%)  
p.P509= (0.0022%)  
p.K1004\* (0.0022%)  
p.H216Yfs\*151 (0.0022%)  
p.H1391R (0.0022%)  
p.T1440I (0.0022%)  
p.L1417Hfs\*24 (0.0022%)  
p.R628= (0.0022%)  
p.T156X\*5 (0.0022%)  
p.M1715L (0.0022%)  
p.E330\* (0.0022%)  
p.V2360L (0.0022%)  
p.Q3324\* (0.0022%)  
p.P1634S (0.0022%)  
p.S2387N (0.0022%)  
p.T648A (0.0022%)  
p.K435Qfs\*12 (0.0022%)  
p.R781C (0.0022%)  
p.D1399N (0.0022%)  
p.L1426\* (0.0022%)  
p.R724\* (0.0022%)  
p.A2032G (0.0022%)  
p.T3342K (0.0022%)  
p.R1559S (0.0022%)  
p.Q311Cfs\*18 (0.0022%)  
p.I2008M (0.0022%)  
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p.T838R (0.0022%)  
p.Q3294\* (0.0022%)  
p.R702\* (0.0022%)  
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p.S3389C (0.0022%)  
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p.V4053I (0.0022%)  
p.D990H (0.0022%)  
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p.N2113= (0.0022%)  
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p.Q3304\* (0.0022%)  
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p.H3200Pfs\*67 (0.0022%)  
p.S2311T (0.0022%)  
p.A3050T (0.0022%)  
p.V2908I (0.0022%)  
p.S346C (0.0022%)  
p.Q3075\* (0.0022%)  
p.P2059Kfs\*3 (0.0022%)  
p.R1475\* (0.0022%)  
p.K1312N (0.0022%)  
p.E4432K (0.0022%)  
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p.P2158A (0.0022%)  
p.A3327T (0.0022%)  
p.Q596= (0.022%)  
p.Q553\* (0.0044%)  
p.D67N (0.0044%)  
p.H546= (0.0022%)  
p.E264G (0.0022%)  
p.G61D (0.0022%)  
p.P157= (0.0022%)  
p.A978T (0.0022%)  
p.Q657= (0.0022%)  
p.S676= (0.0022%)  
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p.R792\* (0.0022%)  
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p.A5G (0.0022%)  
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p.S421Kfs\*17 (0.0022%)  
p.M260I (0.0022%)  
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p.Q604= (0.0022%)  
p.P572L (0.0022%)  
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p.D1127= (0.0022%)  
p.F986Sfs\*19 (0.0022%)  
p.M956I (0.0022%)  
p.D343= (0.0022%)  
p.S999T (0.0022%)  
p.T737P (0.0022%)  
p.E355K (0.0132%)  
p.Q63L (0.0066%)  
p.Q69\* (0.0088%)  
p.E81Q (0.0088%)  
p.A810V (0.0066%)  
p.G409R (0.0066%)  
p.L446F (0.0066%)  
p.G461\_G473del (0.0066%)  
p.R856C (0.0066%)  
p.A333S (0.0044%)  
p.E794G (0.0044%)  
p.G21A (0.0044%)  
p.E830K (0.0044%)  
p.R31H (0.0044%)  
p.L57del (0.0044%)  
p.R13W (0.0044%)  
p.Q64L (0.0044%)  
p.A430T (0.0044%)  
p.Q445P (0.0044%)  
p.G525A (0.0022%)  
p.A897V (0.0022%)  
p.V731M (0.0022%)  
p.\*921Cext\*95 (0.0022%)  
p.Q739\* (0.0022%)  
p.E304K (0.0022%)  
p.L705= (0.0022%)  
p.K633N (0.0022%)  
p.G476A (0.0022%)  
p.Q35E (0.0022%)  
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p.L638M (0.0022%)  
p.Q62L (0.0022%)  
p.S901F (0.0022%)  
p.D234= (0.0022%)  
p.Q488\* (0.0022%)  
p.E187Q (0.0022%)  
p.A242S (0.0022%)  
p.D865E (0.0022%)  
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p.R31= (0.0022%)  
p.F827L (0.0022%)  
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p.A646D (0.0022%)  
p.L57Q (0.0022%)  
p.D183Rfs\*52 (0.0022%)  
p.A597\_S598insQ (0.0022%)  
p.Q199del (0.0022%)  
p.S598dup (0.0022%)  
p.G471\_G473dup (0.0022%)  
p.Q868H (0.0022%)  
p.D340N (0.011%)  
p.R1183Q (0.0088%)  
p.A1403T (0.0088%)  
p.E1922K (0.0044%)  
p.L1633V (0.0088%)  
p.E471Q (0.0088%)  
p.A14S (0.0088%)  
p.Q257E (0.0088%)  
p.R635Q (0.0088%)  
p.E330Q (0.0066%)  
p.D699N (0.0066%)  
p.D564N (0.0066%)  
p.W651\* (0.0044%)  
p.E306K (0.0066%)  
p.E799K (0.0066%)  
p.R2357T (0.0066%)  
p.K338T (0.0066%)  
p.H1709Y (0.0066%)  
p.A1507D (0.0066%)  
p.G2527E (0.0066%)  
p.Q1286\_Q1293del (0.0066%)  
p.S272L (0.0066%)  
p.L2599I (0.0066%)  
p.E2564G (0.0066%)  
p.S749C (0.0044%)  
p.W1964\* (0.0022%)  
p.M402Wfs\*37 (0.0022%)  
p.W1196\* (0.0044%)  
p.E2626K (0.0044%)  
p.E1659\* (0.0044%)  
p.E362Q (0.0044%)  
p.E1888K (0.0044%)  
p.E308K (0.0044%)  
p.E2438Q (0.0044%)  
p.E1326\* (0.0044%)  
p.D589H (0.0044%)  
p.E2012Q (0.0044%)  
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p.Y1956= (0.0022%)  
p.Q2635H (0.0044%)  
p.E1027K (0.0044%)  
p.E1769K (0.0044%)  
p.I774Nfs\*3 (0.0044%)  
p.R433H (0.0044%)  
p.E2579K (0.0044%)  
p.E3Q (0.0044%)  
p.R2425\_F2427del (0.0044%)  
p.H1039N (0.0044%)  
p.R645T (0.0044%)  
p.R1015P (0.0044%)  
p.R2533\* (0.0044%)  
p.E583K (0.0044%)  
p.S61F (0.0044%)  
p.D986N (0.0044%)  
p.C1858R (0.0044%)  
p.L1537\* (0.0044%)  
p.R2407C (0.0022%)  
p.K1603N (0.0022%)  
p.Q1806E (0.0022%)  
p.Q1877E (0.0022%)  
p.G2288E (0.0022%)  
p.P932A (0.0022%)  
p.E2354Vfs\*3 (0.0022%)  
p.M320T (0.0022%)  
p.A2134S (0.0022%)  
p.L1599= (0.0022%)  
p.V531= (0.0022%)  
p.C1604W (0.0022%)  
p.D564H (0.0022%)  
p.R2544= (0.0022%)  
p.L2515= (0.0022%)  
p.R2333K (0.0022%)  
p.W2379\* (0.0022%)  
p.E1543Q (0.0022%)  
p.N1436= (0.0022%)  
p.D1622E (0.0022%)  
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p.P2512T (0.0022%)  
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p.E1061K (0.0022%)  
p.E1452K (0.0022%)  
p.C507= (0.0022%)  
p.S1095L (0.0022%)  
p.I774Yfs\*5 (0.0022%)  
p.R2109= (0.0022%)  
p.Y1736= (0.0022%)  
p.E650K (0.0022%)  
p.L302= (0.0022%)  
p.E2103K (0.0022%)  
p.E1840Q (0.0022%)  
p.K1600= (0.0022%)  
p.C1192Y (0.0022%)  
p.Q1088= (0.0022%)  
p.E2479Q (0.0022%)  
p.Q1542E (0.0022%)  
p.E2438K (0.0022%)  
p.A2575V (0.0022%)  
p.M76L (0.0022%)  
p.R1814Efs\*10 (0.0022%)  
p.A1420G (0.0022%)  
p.K93Nfs\*2 (0.0022%)  
p.E2503Q (0.0022%)  
p.S860\* (0.0022%)  
p.K1173N (0.0022%)  
p.K1603= (0.0022%)  
p.L1823= (0.0022%)  
p.D340H (0.0022%)  
p.R1183\* (0.0022%)  
p.I2435V (0.0022%)  
p.Q1597K (0.0022%)  
p.I385Lfs\*3 (0.0022%)  
p.E2396\* (0.0022%)  
p.D2111N (0.0022%)  
p.E1849K (0.0022%)  
p.L889= (0.0022%)  
p.D2118H (0.0022%)  
p.K899Sfs\*40 (0.0022%)  
p.M2239I (0.0022%)  
p.M2540V (0.0022%)  
p.D699V (0.0022%)  
p.S727C (0.0022%)  
p.T1385Mfs\*3 (0.0022%)  
p.N2123K (0.0022%)  
p.M721V (0.0022%)  
p.E1922\* (0.0022%)  
p.G2502V (0.0022%)  
p.R2407H (0.0022%)  
p.K2248Sfs\*3 (0.0022%)  
p.A1947= (0.0022%)  
p.R1716S (0.0022%)  
p.K704\* (0.0022%)  
p.H1531R (0.0022%)  
p.R177Q (0.0022%)  
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p.G1948R (0.0022%)  
p.Y1479Kfs\*2 (0.0022%)  
p.S1965C (0.0022%)  
p.E1434D (0.0022%)  
p.L365\* (0.0022%)  
p.E2209Q (0.0022%)  
p.F2532\_R2533delinsL (0.0022%)  
p.L2076V (0.0022%)  
p.R1904W (0.0022%)  
p.R1412Q (0.0022%)  
p.D388H (0.0022%)  
p.E1356D (0.0022%)  
p.P1872T (0.0022%)  
p.I774Xfs\*? (0.0022%)  
p.E403A (0.0022%)  
p.L118F (0.0022%)  
p.S898A (0.0022%)  
p.E488D (0.0022%)  
p.K542E (0.0022%)  
p.M11V (0.0022%)  
p.L2091S (0.0022%)  
p.V2069I (0.0022%)  
p.Q2137Xfs\*2 (0.0022%)  
p.K1019Ifs\*5 (0.0022%)  
p.I1733S (0.0022%)  
p.Q1579\* (0.0022%)  
p.G1144Afs\*9 (0.0022%)  
p.S1950\* (0.0022%)  
p.R515H (0.0022%)  
p.L2160F (0.0022%)  
p.L1152F (0.0022%)  
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p.A614T (0.0022%)  
p.S250F (0.044%)  
p.I176V (0.0418%)  
p.D226N (0.0198%)  
p.S242\_Y243delinsCS (0.0176%)  
p.D226G (0.0154%)  
p.E24K (0.0154%)  
p.I176M (0.011%)  
p.Y175C (0.011%)  
p.L309F (0.011%)  
p.F266\* (0.0088%)  
p.E255K (0.0088%)  
p.H247Y (0.0088%)  
p.C227R (0.0088%)  
p.S242Y (0.0066%)  
p.D226V (0.0066%)  
p.Y243C (0.0044%)  
p.G277Afs\*36 (0.0066%)  
p.C258\_R261del (0.0066%)  
p.Y197= (0.0066%)  
p.A323Pfs\*22 (0.0066%)  
p.R262H (0.0066%)  
p.M253K (0.0066%)  
p.G322Rfs\*10 (0.0066%)  
p.D158Y (0.0066%)  
p.T180I (0.0066%)  
p.N35Y (0.0066%)  
p.G462A (0.0066%)  
p.S242F (0.0066%)  
p.C268\* (0.0044%)  
p.P238S (0.0044%)  
p.M253I (0.0044%)  
p.F254L (0.0044%)  
p.L349Ffs\*66 (0.0044%)  
p.F396L (0.0044%)  
p.S28F (0.0044%)  
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p.W214C (0.0044%)  
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p.D158N (0.0044%)  
p.K264\_K267del (0.0044%)  
p.I196V (0.0044%)  
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p.N256I (0.0044%)  
p.N252\_G257del (0.0044%)  
p.A346P (0.0044%)  
p.S165C (0.0044%)  
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p.K267\_C268insR (0.0044%)  
p.G284\_G290del (0.0044%)  
p.S280G (0.0044%)  
p.R294Pfs\*24 (0.0044%)  
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p.R261S (0.0044%)  
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p.G100= (0.0022%)  
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p.S250\_F254del (0.0022%)  
p.M138Nfs\*2 (0.0022%)  
p.A366Rfs\*23 (0.0022%)  
p.G277W (0.0022%)  
p.I183M (0.0022%)  
p.S40F (0.0022%)  
p.S89W (0.0022%)  
p.M138Ifs\*2 (0.0022%)  
p.L260F (0.0022%)  
p.N256Rfs\*36 (0.0022%)  
p.F254\* (0.0022%)  
p.F266I (0.0022%)  
p.G315\* (0.0022%)  
p.G88R (0.0022%)  
p.S217P (0.0022%)  
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p.E292Q (0.0022%)  
p.A153V (0.0022%)  
p.S194Afs\*127 (0.0022%)  
p.H398\_N403del (0.0022%)  
p.R262\_K267del (0.0022%)  
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p.E255V (0.0022%)  
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p.G87W (0.0022%)  
p.G275Afs\*36 (0.0022%)  
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p.G257D (0.0022%)  
p.F266S (0.0022%)  
p.S13N (0.0022%)  
p.P110= (0.0022%)  
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p.K350N (0.0022%)  
p.F254S (0.0022%)  
p.S109R (0.0022%)  
p.L415Afs\*143 (0.0022%)  
p.D249\_M253delinsE (0.0022%)  
p.Y394Tfs\*46 (0.0022%)  
p.H247Q (0.0022%)  
p.Y197C (0.0022%)  
p.Y429\* (0.0022%)  
p.D249Gfs\*44 (0.0022%)  
p.Y259S (0.0022%)  
p.H310Pfs\*105 (0.0022%)  
p.S234F (0.0022%)  
p.Y175N (0.0022%)  
p.S151Gfs\*73 (0.0022%)  
p.V370Afs\*44 (0.0022%)  
p.G257V (0.0022%)  
p.N252\_C258del (0.0022%)  
p.S221L (0.0022%)  
p.G239D (0.0022%)  
p.N403S (0.0022%)  
p.E292D (0.0022%)  
p.N404D (0.0022%)  
p.C268W (0.0022%)  
p.G91Afs\*3 (0.0022%)  
p.K264Rfs\*58 (0.0022%)  
p.P297L (0.0022%)  
p.E255\_N256del (0.0022%)  
p.Q263\_R265dup (0.0022%)  
p.G344R (0.0022%)  
p.S217C (0.0022%)  
p.I402\_S408del (0.0022%)  
p.R261H (0.0022%)  
p.Y426Ffs\*125 (0.0022%)  
p.Q412Rfs\*28 (0.0022%)  
p.R265\_K270del (0.0022%)  
p.F266C (0.0022%)  
p.L193Vfs\*28 (0.0022%)  
p.R261C (0.0022%)  
p.T343Pfs\*4 (0.0022%)  
p.D226E (0.0022%)  
p.V468Ffs\*86 (0.0022%)  
p.P477H (0.0066%)  
p.A262= (0.0044%)  
p.H358N (0.0044%)  
p.I609= (0.0044%)  
p.D381N (0.0044%)  
p.A519V (0.0022%)  
p.Q252H (0.0022%)  
p.A487= (0.0022%)  
p.S108F (0.0022%)  
p.Q344K (0.0022%)  
p.H225D (0.0022%)  
p.S342\_L348del (0.0022%)  
p.R547L (0.0022%)  
p.P647L (0.0022%)  
p.L523= (0.0022%)  
p.S571= (0.0022%)  
p.F130L (0.0022%)  
p.V500M (0.0022%)  
p.A530V (0.0022%)  
p.D372Y (0.0022%)  
p.T630= (0.0022%)  
p.T307N (0.0022%)  
p.D457= (0.0022%)  
p.A496V (0.0022%)  
p.A259T (0.0022%)  
p.R579H (0.0022%)  
p.E315D (0.0022%)  
p.S774Vfs\*12 (0.0176%)  
p.T2737K (0.011%)  
p.K1751\* (0.011%)  
p.S92L (0.0088%)  
p.S2223C (0.0066%)  
p.K2892= (0.0066%)  
p.S924L (0.0066%)  
p.R736Kfs\*7 (0.0066%)  
p.C1434R (0.0066%)  
p.R3968L (0.0066%)  
p.G1419A (0.0066%)  
p.S901\* (0.0066%)  
p.E2876Q (0.0044%)  
p.S466C (0.0044%)  
p.R2426T (0.0044%)  
p.P1263A (0.0044%)  
p.P1367= (0.0044%)  
p.P1087S (0.0044%)  
p.R353= (0.0044%)  
p.L1495P (0.0044%)  
p.E2451K (0.0044%)  
p.D2730H (0.0044%)  
p.I2758Dfs\*2 (0.0044%)  
p.R1350C (0.0044%)  
p.D2039H (0.0044%)  
p.D2798H (0.0044%)  
p.D2725H (0.0044%)  
p.E2754Q (0.0044%)  
p.E1464\* (0.0044%)  
p.K1641T (0.0044%)  
p.R442Q (0.0044%)  
p.E2989Q (0.0044%)  
p.K1225N (0.0044%)  
p.S2229\* (0.0044%)  
p.R2519Gfs\*7 (0.0044%)  
p.S768L (0.0044%)  
p.H1925R (0.0044%)  
p.I256V (0.0044%)  
p.R1630W (0.0044%)  
p.D2681N (0.0044%)  
p.P3626A (0.0044%)  
p.H1456R (0.0044%)  
p.Q3416\* (0.0044%)  
p.G3535D (0.0044%)  
p.P816S (0.0044%)  
p.R6W (0.0044%)  
p.L3097Sfs\*15 (0.0044%)  
p.N3797= (0.0022%)  
p.R3744Q (0.0022%)  
p.R652\* (0.0022%)  
p.S3380L (0.0022%)  
p.P57S (0.0022%)  
p.P2171H (0.0022%)  
p.T2150= (0.0022%)  
p.S594= (0.0022%)  
p.H3162P (0.0022%)  
p.P3177= (0.0022%)  
p.T1245P (0.0022%)  
p.P654= (0.0022%)  
p.E1640K (0.0022%)  
p.E310K (0.0022%)  
p.S2170N (0.0022%)  
p.R613Q (0.0022%)  
p.T1842A (0.0022%)  
p.S3880R (0.0022%)  
p.I3288= (0.0022%)  
p.E1871Q (0.0022%)  
p.D1674H (0.0022%)  
p.I122M (0.0022%)  
p.S101L (0.0022%)  
p.K461Nfs\*106 (0.0022%)  
p.I578V (0.0022%)  
p.Q1548\* (0.0022%)  
p.H1456D (0.0022%)  
p.R3291Sfs\*2 (0.0022%)  
p.S252I (0.0022%)  
p.R354G (0.0022%)  
p.S2872L (0.0022%)  
p.A699T (0.0022%)  
p.D431N (0.0022%)  
p.E522D (0.0022%)  
p.Q3454E (0.0022%)  
p.K3828Rfs\*31 (0.0022%)  
p.Q900\* (0.0022%)  
p.T1951I (0.0022%)  
p.R1081Q (0.0022%)  
p.P1306= (0.0022%)  
p.S474L (0.0022%)  
p.T3242N (0.0022%)  
p.K3660T (0.0022%)  
p.P1868Qfs\*3 (0.0022%)  
p.P3059= (0.0022%)  
p.S2266F (0.0022%)  
p.A3785G (0.0022%)  
p.V2640I (0.0022%)  
p.R849\* (0.0022%)  
p.I1401F (0.0022%)  
p.L2674V (0.0022%)  
p.D2842Y (0.0022%)  
p.D2825N (0.0022%)  
p.E3665D (0.0022%)  
p.G3671A (0.0022%)  
p.K2406R (0.0022%)  
p.R2271Gfs\*6 (0.0022%)  
p.S1002C (0.0022%)  
p.R2382Q (0.0022%)  
p.R1182H (0.0022%)  
p.R541T (0.0022%)  
p.E984G (0.0022%)  
p.F2897L (0.0022%)  
p.K1133T (0.0022%)  
p.P569L (0.0022%)  
p.S2202Lfs\*22 (0.0022%)  
p.L976P (0.0022%)  
p.T949S (0.0022%)  
p.E1699Q (0.0022%)  
p.K1185= (0.0022%)  
p.V2249I (0.0022%)  
p.Q1195\* (0.0022%)  
p.R3749H (0.0022%)  
p.M2602V (0.0022%)  
p.E3942Q (0.0022%)  
p.N2254Ifs\*6 (0.0022%)  
p.C2068Y (0.0022%)  
p.R1532C (0.0022%)  
p.M3650Hfs\*16 (0.0022%)  
p.S783Y (0.0022%)  
p.I355F (0.0022%)  
p.E970Kfs\*37 (0.0022%)  
p.K3048T (0.0022%)  
p.Q844H (0.0022%)  
p.F148V (0.0022%)  
p.G247Efs\*7 (0.0022%)  
p.G1181V (0.0022%)  
p.L2551Cfs\*3 (0.0022%)  
p.V1347Sfs\*24 (0.0022%)  
p.D2730Y (0.0022%)  
p.L3462F (0.0022%)  
p.P1695A (0.0022%)  
p.A2236T (0.0022%)  
p.R3874Q (0.0022%)  
p.P3243= (0.0022%)  
p.K1735del (0.0022%)  
p.K284Q (0.0022%)  
p.K2767Rfs\*5 (0.0022%)  
p.S1388G (0.0022%)  
p.P3959= (0.0022%)  
p.V1988Cfs\*4 (0.0022%)  
p.Q3488Rfs\*3 (0.0022%)  
p.C1155F (0.0022%)  
p.H1483Qfs\*17 (0.0022%)  
p.R618W (0.0022%)  
p.R2521H (0.0022%)  
p.P1351Qfs\*5 (0.0022%)  
p.P172S (0.0022%)  
p.S783Lfs\*10 (0.0022%)  
p.E3690K (0.0022%)  
p.P2166Lfs\*13 (0.0022%)  
p.T2815P (0.0022%)  
p.E887K (0.0022%)  
p.S3185Rfs\*50 (0.0022%)  
p.E1462D (0.0022%)  
p.V60G (0.0022%)  
p.G909D (0.0022%)  
p.V3015I (0.0022%)  
p.R677\* (0.0022%)  
p.Q3472Sfs\*19 (0.0022%)  
p.L3733Sfs\*29 (0.0022%)  
p.R910Sfs\*9 (0.0022%)  
p.C1437Y (0.0022%)  
p.T3279Lfs\*9 (0.0022%)  
p.D1855H (0.0022%)  
p.E2708Rfs\*49 (0.0022%)  
p.S191\* (0.0022%)  
p.H3073Y (0.0022%)  
p.A3401T (0.0022%)  
p.Q3593Afs\*5 (0.0022%)  
p.R160\* (0.0022%)  
p.S947Lfs\*2 (0.0022%)  
p.E3690Q (0.0022%)  
p.P3840S (0.0022%)  
p.K1457E (0.0022%)  
p.T3577M (0.0022%)  
p.P3059L (0.0022%)  
p.H753Y (0.0022%)  
p.K2520Nfs\*10 (0.0022%)  
p.D3196N (0.0022%)  
p.L3237F (0.0022%)  
p.K3669Rfs\*28 (0.0022%)  
p.V1913Rfs\*7 (0.0022%)  
p.Q3594Afs\*5 (0.0022%)  
p.T2655A (0.0022%)  
p.S1920Hfs\*2 (0.0022%)  
p.R1593H (0.0022%)  
p.T3414I (0.0022%)  
p.H1816N (0.0022%)  
p.R173\* (0.0022%)  
p.E2989K (0.0022%)  
p.T2180I (0.0022%)  
p.L2185Ffs\*28 (0.0022%)  
p.S3294P (0.0022%)  
p.E919K (0.0022%)  
p.P1097A (0.0022%)  
p.S70N (0.0022%)  
p.K890Efs\*11 (0.0022%)  
p.W1098\* (0.0022%)  
p.I3381Nfs\*9 (0.0022%)  
p.G3275V (0.0022%)  
p.E2611\* (0.0022%)  
p.S2229T (0.0022%)  
p.M3159I (0.0022%)  
p.L769= (0.0044%)  
p.E57\* (0.0044%)  
p.Q768\* (0.0044%)  
p.S648= (0.0022%)  
p.F673= (0.0022%)  
p.L862= (0.0022%)  
p.R1183K (0.0022%)  
p.V445= (0.0022%)  
p.K1199Sfs\*20 (0.0022%)  
p.G1091A (0.0022%)  
p.C1022= (0.0022%)  
p.C338Y (0.0022%)  
p.D1209Y (0.0022%)  
p.S483= (0.0022%)  
p.N362= (0.0022%)  
p.S470F (0.0022%)  
p.S397= (0.0022%)  
p.S1185T (0.0022%)  
p.D1167N (0.0022%)  
p.C105= (0.0022%)  
p.K807N (0.0022%)  
p.S160= (0.0022%)  
p.V879I (0.0022%)  
p.C1096F (0.0022%)  
p.N810I (0.0022%)  
p.G545W (0.0022%)  
p.E1528K (0.0088%)  
p.S1236N (0.0044%)  
p.S1682L (0.0022%)  
p.Q1829\* (0.0066%)  
p.D1388E (0.0066%)  
p.Q2484\* (0.0066%)  
p.R424\* (0.0066%)  
p.S1001C (0.0066%)  
p.D1616H (0.0066%)  
p.R2024Q (0.0044%)  
p.P562= (0.0044%)  
p.R1492\* (0.0022%)  
p.P2202T (0.0044%)  
p.Q1797\* (0.0044%)  
p.R1509T (0.0044%)  
p.Q1667\* (0.0044%)  
p.E1029Q (0.0044%)  
p.E997Q (0.0044%)  
p.R2048T (0.0044%)  
p.M715I (0.0044%)  
p.S831\* (0.0044%)  
p.E1036K (0.0044%)  
p.D99N (0.0044%)  
p.V998I (0.0044%)  
p.R1065H (0.0044%)  
p.S754L (0.0044%)  
p.R1543W (0.0044%)  
p.N524H (0.0044%)  
p.I1824del (0.0022%)  
p.T1557Rfs\*30 (0.0022%)  
p.S112\* (0.0044%)  
p.S1730\* (0.0044%)  
p.T642A (0.0044%)  
p.R1598\* (0.0044%)  
p.F1626L (0.0044%)  
p.S2104C (0.0044%)  
p.E1674del (0.0044%)  
p.Q1287K (0.0044%)  
p.S1207F (0.0044%)  
p.S1777F (0.0044%)  
p.R1710Lfs\*10 (0.0022%)  
p.F351Y (0.0044%)  
p.S1238Y (0.0022%)  
p.S791\* (0.0022%)  
p.S557Y (0.0022%)  
p.A1683D (0.0022%)  
p.R1598Q (0.0022%)  
p.P1062S (0.0022%)  
p.S461\* (0.0022%)  
p.D653H (0.0022%)  
p.S1737G (0.0022%)  
p.M1469I (0.0022%)  
p.S1206Lfs\*29 (0.0022%)  
p.S815\* (0.0022%)  
p.P104S (0.0022%)  
p.V711= (0.0022%)  
p.S587C (0.0022%)  
p.S618\* (0.0022%)  
p.E2062= (0.0022%)  
p.E2119K (0.0022%)  
p.D733H (0.0022%)  
p.N1155= (0.0022%)  
p.Q1164\* (0.0022%)  
p.R2399\* (0.0022%)  
p.H991P (0.0022%)  
p.G1231E (0.0022%)  
p.R2122W (0.0022%)  
p.H1035Y (0.0022%)  
p.Q872\* (0.0022%)  
p.S980C (0.0022%)  
p.D1982N (0.0022%)  
p.R984G (0.0022%)  
p.F1650V (0.0022%)  
p.S180\* (0.0022%)  
p.S470\* (0.0022%)  
p.S2193N (0.0022%)  
p.D338H (0.0022%)  
p.R1625L (0.0022%)  
p.V2226= (0.0022%)  
p.V2410= (0.0022%)  
p.F1679= (0.0022%)  
p.H2538Pfs\*26 (0.0022%)  
p.Q722H (0.0022%)  
p.P2190H (0.0022%)  
p.Q2362E (0.0022%)  
p.K365= (0.0022%)  
p.N579S (0.0022%)  
p.S2080= (0.0022%)  
p.D1345= (0.0022%)  
p.H2340Y (0.0022%)  
p.E632= (0.0022%)  
p.V1715G (0.0022%)  
p.K712T (0.0022%)  
p.F1626C (0.0022%)  
p.S1940R (0.0022%)  
p.R1740W (0.0022%)  
p.D869N (0.0022%)  
p.K2115Nfs\*32 (0.0022%)  
p.E410Q (0.0022%)  
p.L1358V (0.0022%)  
p.P2202S (0.0022%)  
p.L1066= (0.0022%)  
p.P228= (0.0022%)  
p.P230S (0.0022%)  
p.P1633S (0.0022%)  
p.R1694Sfs\*17 (0.0022%)  
p.S993F (0.0022%)  
p.A944= (0.0022%)  
p.Y1286C (0.0022%)  
p.K1963Rfs\*12 (0.0022%)  
p.L2375= (0.0022%)  
p.Q1545\* (0.0022%)  
p.S1012Vfs\*4 (0.0022%)  
p.E729\* (0.0022%)  
p.C1501R (0.0022%)  
p.R2063\* (0.0022%)  
p.E2472Kfs\*15 (0.0022%)  
p.K2506N (0.0022%)  
p.W1640\_T1641delins\* (0.0022%)  
p.R1625C (0.0022%)  
p.L707\* (0.0022%)  
p.R1322Qfs\*10 (0.0022%)  
p.R2077\* (0.0022%)  
p.Q1619E (0.0022%)  
p.K1795Efs\*18 (0.0022%)  
p.K2011T (0.0022%)  
p.L1807\_P1810del (0.0022%)  
p.S1268C (0.0022%)  
p.S1390\* (0.0022%)  
p.R2510C (0.0022%)  
p.T2002Sfs\*5 (0.0022%)  
p.M761I (0.0022%)  
p.R1850H (0.0022%)  
p.Y1605C (0.0022%)  
p.S996\* (0.0022%)  
p.K1712del (0.0022%)  
p.N2071Rfs\*17 (0.0022%)  
p.R329Q (0.0022%)  
p.L1755Wfs\*13 (0.0022%)  
p.R620\* (0.0022%)  
p.R2490Q (0.0022%)  
p.K1587Rfs\*3 (0.0022%)  
p.R448L (0.0022%)  
p.K899\* (0.0022%)  
p.D1154Ifs\*22 (0.0022%)  
p.R385Ifs\*98 (0.0022%)  
p.A2261T (0.0022%)  
p.Q68\* (0.0022%)  
p.E1412Vfs\*19 (0.0022%)  
p.E1588\* (0.0022%)  
p.G1561V (0.0022%)  
p.L627Rfs\*2 (0.0022%)  
p.A1280G (0.0022%)  
p.T1652Ifs\*14 (0.0022%)  
p.H1348Y (0.0022%)  
p.C1678Y (0.0022%)  
p.G2440Efs\*10 (0.0022%)  
p.R2399Qfs\*12 (0.0022%)  
p.F1668L (0.0022%)  
p.H2514Qfs\*6 (0.0022%)  
p.Q1198H (0.0022%)  
p.R132H (0.0132%)  
p.C1626S (0.011%)  
p.N382S (0.011%)  
p.D1335G (0.0088%)  
p.E595Q (0.0088%)  
p.L2138F (0.0088%)  
p.L521= (0.0088%)  
p.M2010I (0.0066%)  
p.N797I (0.0066%)  
p.I823F (0.0066%)  
p.Q232K (0.0066%)  
p.H563Q (0.0066%)  
p.F1889V (0.0066%)  
p.A1577= (0.0044%)  
p.R112W (0.0044%)  
p.E2526Q (0.0044%)  
p.L2305= (0.0044%)  
p.N269I (0.0044%)  
p.A1105P (0.0044%)  
p.H1819Y (0.0044%)  
p.E247D (0.0044%)  
p.K1024N (0.0044%)  
p.F1440L (0.0044%)  
p.S178= (0.0044%)  
p.M620V (0.0044%)  
p.R103= (0.0044%)  
p.D2424N (0.0044%)  
p.A2210P (0.0044%)  
p.M1879I (0.0044%)  
p.P465S (0.0044%)  
p.L1212I (0.0044%)  
p.S2013G (0.0044%)  
p.E1799K (0.0044%)  
p.Q1866\* (0.0044%)  
p.Q1492H (0.0044%)  
p.A1519D (0.0044%)  
p.I2356F (0.0044%)  
p.R1514Q (0.0044%)  
p.S2215F (0.0044%)  
p.R1749\* (0.0044%)  
p.M2327I (0.0044%)  
p.A2034V (0.0044%)  
p.R62C (0.0044%)  
p.R553H (0.0044%)  
p.R1154= (0.0022%)  
p.I1048L (0.0022%)  
p.F946= (0.0022%)  
p.V2326= (0.0022%)  
p.D2191Y (0.0022%)  
p.G1104V (0.0022%)  
p.A1577T (0.0022%)  
p.T408I (0.0022%)  
p.A400V (0.0022%)  
p.G758V (0.0022%)  
p.G98= (0.0022%)  
p.P1426= (0.0022%)  
p.D479= (0.0022%)  
p.N999= (0.0022%)  
p.A1517V (0.0022%)  
p.D1032H (0.0022%)  
p.L2220= (0.0022%)  
p.E2388Q (0.0022%)  
p.Q1241R (0.0022%)  
p.L1878= (0.0022%)  
p.S2310F (0.0022%)  
p.L133V (0.0022%)  
p.L387= (0.0022%)  
p.K1186N (0.0022%)  
p.I712V (0.0022%)  
p.E2196\* (0.0022%)  
p.Q2124P (0.0022%)  
p.M1535I (0.0022%)  
p.R1215T (0.0022%)  
p.G2040V (0.0022%)  
p.R1612P (0.0022%)  
p.F319L (0.0022%)  
p.D2412H (0.0022%)  
p.A2467= (0.0022%)  
p.S78\* (0.0022%)  
p.T410N (0.0022%)  
p.R2368Q (0.0022%)  
p.E2405= (0.0022%)  
p.E2369Q (0.0022%)  
p.L700= (0.0022%)  
p.A9T (0.0022%)  
p.D1210del (0.0022%)  
p.A475G (0.0022%)  
p.T1834\_T1837del (0.0022%)  
p.R1966W (0.0022%)  
p.A1152= (0.0022%)  
p.M1255I (0.0022%)  
p.R1235= (0.0022%)  
p.A1510= (0.0022%)  
p.S1025N (0.0022%)  
p.W1449\_H1454delinsY (0.0022%)  
p.L1433S (0.0022%)  
p.L1599V (0.0022%)  
p.R281H (0.0022%)  
p.I2500F (0.0022%)  
p.R53G (0.0022%)  
p.L738F (0.0022%)  
p.N256S (0.0022%)  
p.G2510D (0.0022%)  
p.R2511Q (0.0022%)  
p.L1180Sfs\*18 (0.0022%)  
p.A519T (0.0022%)  
p.R281C (0.0022%)  
p.L172F (0.0022%)  
p.Q838\* (0.0022%)  
p.R1080C (0.0022%)  
p.L1759R (0.0022%)  
p.A1309P (0.0022%)  
p.Q2223\* (0.0022%)  
p.W2101L (0.0022%)  
p.H1647Q (0.0022%)  
p.T1834M (0.0022%)  
p.L891del (0.0022%)  
p.C1563Vfs\*3 (0.0022%)  
p.D2145Y (0.0022%)  
p.E2014= (0.0022%)  
p.R1154L (0.0022%)  
p.A1314V (0.0022%)  
p.E706Q (0.0022%)  
p.L2216I (0.0022%)  
p.E1455= (0.0022%)  
p.P2273L (0.0022%)  
p.N81S (0.0022%)  
p.V455M (0.0022%)  
p.T1844S (0.0022%)  
p.N2211S (0.0022%)  
p.R619C (0.0022%)  
p.Y2125Cfs\*12 (0.0022%)  
p.A607V (0.0022%)  
p.R1749G (0.0022%)  
p.R2505P (0.0022%)  
p.T665R (0.0022%)  
p.R1301C (0.0022%)  
p.S386W (0.0022%)  
p.M476Cfs\*38 (0.0022%)  
p.T874S (0.0022%)  
p.V2406M (0.0022%)  
p.R1538W (0.0022%)  
p.A1551V (0.0022%)  
p.I1973F (0.0022%)  
p.M2057V (0.0022%)  
p.N1765S (0.0022%)  
p.Y336Tfs\*30 (0.0022%)  
p.F2108L (0.0022%)  
p.Q2154E (0.0022%)  
p.G21S (0.0044%)  
p.L22R (0.0022%)  
p.D149V (0.0022%)  
p.M73I (0.0022%)  
p.H425N (0.0022%)  
p.S325L (0.0022%)  
p.R290W (0.0022%)  
p.N258Y (0.0022%)  
p.R213K (0.011%)  
p.R1242\* (0.011%)  
p.Q593E (0.0088%)  
p.R69Q (0.0066%)  
p.L204F (0.0066%)  
p.E1246K (0.0066%)  
p.S941\* (0.0066%)  
p.K891R (0.0066%)  
p.R614\* (0.0022%)  
p.G46Rfs\*41 (0.0022%)  
p.Q275\* (0.0044%)  
p.Y815H (0.0044%)  
p.E721\* (0.0044%)  
p.D1136E (0.0044%)  
p.E194K (0.0044%)  
p.M196I (0.0044%)  
p.R954\_F959del (0.0044%)  
p.R216\* (0.0044%)  
p.T395Lfs\*29 (0.0044%)  
p.E1135K (0.0044%)  
p.R766\* (0.0044%)  
p.T1079R (0.0044%)  
p.R252Q (0.0044%)  
p.A952P (0.0044%)  
p.I2K (0.0044%)  
p.K554T (0.0044%)  
p.G1062E (0.0044%)  
p.Q801H (0.0044%)  
p.A1179E (0.0044%)  
p.Q211H (0.0044%)  
p.E490\* (0.0044%)  
p.D299G (0.0044%)  
p.S173Y (0.0044%)  
p.Q185= (0.0022%)  
p.R439H (0.0022%)  
p.S156T (0.0022%)  
p.S1007Y (0.0022%)  
p.L117H (0.0022%)  
p.T406N (0.0022%)  
p.L791= (0.0022%)  
p.E408K (0.0022%)  
p.T1069= (0.0022%)  
p.E1243= (0.0022%)  
p.Q770= (0.0022%)  
p.L14del (0.0022%)  
p.L571P (0.0022%)  
p.L964= (0.0022%)  
p.Q278E (0.0022%)  
p.R766T (0.0022%)  
p.N641I (0.0022%)  
p.K55Qfs\*32 (0.0022%)  
p.E1176= (0.0022%)  
p.H698R (0.0022%)  
p.D671N (0.0022%)  
p.L588\* (0.0022%)  
p.P1129S (0.0022%)  
p.T966Qfs\*13 (0.0022%)  
p.I720= (0.0022%)  
p.L1000F (0.0022%)  
p.E583A (0.0022%)  
p.L480F (0.0022%)  
p.Q963\* (0.0022%)  
p.D486N (0.0022%)  
p.G452V (0.0022%)  
p.N412Y (0.0022%)  
p.T1027A (0.0022%)  
p.Q340K (0.0022%)  
p.R954H (0.0022%)  
p.H421Y (0.0022%)  
p.K901E (0.0022%)  
p.R305\* (0.0022%)  
p.F178L (0.0022%)  
p.G540\* (0.0022%)  
p.L503Tfs\*6 (0.0022%)  
p.R1045\* (0.0022%)  
p.Y1142Ffs\*19 (0.0022%)  
p.D198V (0.0022%)  
p.I900M (0.0022%)  
p.Q211Efs\*12 (0.0022%)  
p.R560W (0.0022%)  
p.S419L (0.0022%)  
p.E259Q (0.0044%)  
p.E565K (0.0022%)  
p.A766T (0.0022%)  
p.F221I (0.0022%)  
p.T570I (0.0022%)  
p.I559M (0.0022%)  
p.G415= (0.0022%)  
p.L641V (0.0022%)  
p.L50P (0.0022%)  
p.T602= (0.0022%)  
p.I564= (0.0044%)  
p.P1130T (0.0022%)  
p.R1485I (0.0022%)  
p.F1464= (0.0022%)  
p.G1267= (0.0022%)  
p.P1072H (0.0022%)  
p.I48= (0.0022%)  
p.R626\* (0.0022%)  
p.T550P (0.0022%)  
p.L518= (0.0022%)  
p.L1035Yfs\*26 (0.0022%)  
p.Q1094E (0.0022%)  
p.E931K (0.0022%)  
p.S1232C (0.0022%)  
p.T1230I (0.0022%)  
p.D1328N (0.0022%)  
p.L1170= (0.0022%)  
p.K1452N (0.0022%)  
p.R1588G (0.0022%)  
p.R112Q (0.0022%)  
p.S763C (0.0022%)  
p.S763= (0.0022%)  
p.A390Pfs\*17 (0.0022%)  
p.P1568= (0.0022%)  
p.T864M (0.0022%)  
p.H1485Y (0.011%)  
p.E667\* (0.011%)  
p.V89M (0.0088%)  
p.C1444Hfs\*6 (0.0088%)  
p.S893L (0.0088%)  
p.T1426M (0.0066%)  
p.G1469V (0.0066%)  
p.S945L (0.0066%)  
p.E1054Dfs\*4 (0.0066%)  
p.S71L (0.0066%)  
p.Q1209Tfs\*25 (0.0022%)  
p.Q943\* (0.0022%)  
p.E1400Q (0.0044%)  
p.F1324L (0.0044%)  
p.R1443S (0.0022%)  
p.H1351D (0.0044%)  
p.E1501K (0.0044%)  
p.M1021I (0.0044%)  
p.S977P (0.0044%)  
p.R1960Q (0.0044%)  
p.Q497\* (0.0044%)  
p.F2231L (0.0044%)  
p.D1276H (0.0044%)  
p.E1626Q (0.0044%)  
p.S893W (0.0044%)  
p.K1271R (0.0044%)  
p.R601Q (0.0044%)  
p.Q1879E (0.0044%)  
p.T1735= (0.0044%)  
p.Q1152E (0.0044%)  
p.F1540S (0.0044%)  
p.N374I (0.0044%)  
p.S2377L (0.0044%)  
p.E72Afs\*10 (0.0044%)  
p.Q2299K (0.0044%)  
p.E1000\* (0.0044%)  
p.G2162R (0.0044%)  
p.R1169C (0.0022%)  
p.R1392Q (0.0022%)  
p.T1532I (0.0022%)  
p.Q790K (0.0022%)  
p.G1287D (0.0022%)  
p.Y1622H (0.0022%)  
p.Q2081\* (0.0022%)  
p.M2268T (0.0022%)  
p.K120= (0.0022%)  
p.G556R (0.0022%)  
p.T1688M (0.0022%)  
p.Q948K (0.0022%)  
p.C1237F (0.0022%)  
p.K1811= (0.0022%)  
p.R1446C (0.0022%)  
p.C1311= (0.0022%)  
p.T1931Pfs\*45 (0.0022%)  
p.K1554E (0.0022%)  
p.K1239E (0.0022%)  
p.R1786H (0.0022%)  
p.P145= (0.0022%)  
p.P1885S (0.0022%)  
p.N47S (0.0022%)  
p.R1081H (0.0022%)  
p.R1112W (0.0022%)  
p.I2101M (0.0022%)  
p.P1839H (0.0022%)  
p.V1802= (0.0022%)  
p.I1084Sfs\*15 (0.0022%)  
p.M388R (0.0022%)  
p.N1978S (0.0022%)  
p.Y1450C (0.0022%)  
p.T950= (0.0022%)  
p.P1911L (0.0022%)  
p.E1562= (0.0022%)  
p.P2117S (0.0022%)  
p.L74V (0.0022%)  
p.Q1292H (0.0022%)  
p.K1685E (0.0022%)  
p.N797Kfs\*35 (0.0022%)  
p.V1307M (0.0022%)  
p.S1108L (0.0022%)  
p.L2121\_G2132del (0.0022%)  
p.S2372L (0.0022%)  
p.R2190Q (0.0022%)  
p.Q2267H (0.0022%)  
p.Q1994H (0.0022%)  
p.I86Mfs\*29 (0.0022%)  
p.P1255S (0.0022%)  
p.G1469Afs\*9 (0.0022%)  
p.A254T (0.0022%)  
p.A805Rfs\*2 (0.0022%)  
p.Q2273Gfs\*63 (0.0022%)  
p.Q2215\_Q2216del (0.0022%)  
p.P2051Afs\*290 (0.0022%)  
p.Q2303H (0.0022%)  
p.E1058G (0.0022%)  
p.T1593N (0.0022%)  
p.Y1417= (0.0022%)  
p.R1091C (0.0022%)  
p.Q792\* (0.0022%)  
p.D1521E (0.0022%)  
p.N705S (0.0022%)  
p.Q821\* (0.0022%)  
p.Q541\* (0.0022%)  
p.S1030F (0.0022%)  
p.K1086\* (0.0022%)  
p.C398Y (0.0022%)  
p.R1173G (0.0022%)  
p.T576I (0.0022%)  
p.V1405L (0.0022%)  
p.D1665N (0.0022%)  
p.L836V (0.0022%)  
p.M747V (0.0022%)  
p.R1810C (0.0022%)  
p.N1978D (0.0022%)  
p.Q1852\* (0.0022%)  
p.Q863E (0.011%)  
p.E36D (0.011%)  
p.R481H (0.0066%)  
p.D1069G (0.0066%)  
p.W321\* (0.0022%)  
p.S769\* (0.0022%)  
p.L545Afs\*8 (0.0022%)  
p.A243V (0.0044%)  
p.S1284L (0.0044%)  
p.R1048K (0.0044%)  
p.R484G (0.0044%)  
p.A12G (0.0044%)  
p.Q442\* (0.0044%)  
p.A269V (0.0044%)  
p.R1054Efs\*29 (0.0044%)  
p.P941Tfs\*26 (0.0044%)  
p.G904Wfs\*4 (0.0044%)  
p.G675V (0.0044%)  
p.R1279\* (0.0044%)  
p.W632Gfs\*59 (0.0044%)  
p.Y294\* (0.0044%)  
p.Y890\* (0.0044%)  
p.I1267R (0.0044%)  
p.P110R (0.0022%)  
p.L401F (0.0022%)  
p.G735R (0.0022%)  
p.W1021\* (0.0022%)  
p.L246V (0.0022%)  
p.V1253G (0.0022%)  
p.N1087D (0.0022%)  
p.Y1256H (0.0022%)  
p.Y362\* (0.0022%)  
p.R658\* (0.0022%)  
p.S531L (0.0022%)  
p.Q611\* (0.0022%)  
p.E857Q (0.0022%)  
p.Y80C (0.0022%)  
p.W1096C (0.0022%)  
p.N1151S (0.0022%)  
p.H63Y (0.0022%)  
p.Q191K (0.0022%)  
p.V503= (0.0022%)  
p.L617Q (0.0022%)  
p.T616Nfs\*8 (0.0022%)  
p.H453N (0.0022%)  
p.H702Sfs\*28 (0.0022%)  
p.L936= (0.0022%)  
p.R481C (0.0022%)  
p.R519Dfs\*29 (0.0022%)  
p.G850Vfs\*6 (0.0022%)  
p.R1255W (0.0022%)  
p.E496A (0.0022%)  
p.S7L (0.0022%)  
p.F18= (0.0022%)  
p.E206K (0.0022%)  
p.L903Kfs\*5 (0.0022%)  
p.V1113Gfs\*38 (0.0022%)  
p.G100Vfs\*80 (0.0022%)  
p.L915S (0.0022%)  
p.D261H (0.0022%)  
p.S500R (0.0022%)  
p.I970Nfs\*9 (0.0022%)  
p.L1200R (0.0022%)  
p.L409P (0.0022%)  
p.Q1039\* (0.0022%)  
p.S1068\* (0.0022%)  
p.L246Yfs\*4 (0.0022%)  
p.E33\* (0.0022%)  
p.R519\* (0.0022%)  
p.N1130Xfs\*8 (0.0022%)  
p.Q517Tfs\*9 (0.0022%)  
p.Y126Tfs\*54 (0.0022%)  
p.K178E (0.0022%)  
p.L1119P (0.0022%)  
p.V1155G (0.0022%)  
p.W1096Vfs\*7 (0.0022%)  
p.Q692Xfs\*37 (0.0022%)  
p.R1054Kfs\*5 (0.0022%)  
p.G250A (0.0022%)  
p.K905\* (0.0022%)  
p.A1115Yfs\*7 (0.0022%)  
p.P458L (0.0022%)  
p.P458S (0.0022%)  
p.E430K (0.0022%)  
p.V815F (0.0022%)  
p.R2269\* (0.0088%)  
p.Q2160\* (0.0088%)  
p.E1902K (0.0088%)  
p.E538\* (0.0066%)  
p.K2111R (0.0066%)  
p.V1418I (0.0066%)  
p.I460M (0.0066%)  
p.D1192G (0.0066%)  
p.G272D (0.0044%)  
p.P208= (0.0044%)  
p.V1376Lfs\*12 (0.0022%)  
p.D1225Y (0.0044%)  
p.E2330K (0.0044%)  
p.V1682I (0.0044%)  
p.E1698G (0.0044%)  
p.S1148L (0.0044%)  
p.G1852V (0.0044%)  
p.E2071K (0.0044%)  
p.V155F (0.0044%)  
p.R2118T (0.0044%)  
p.E163= (0.0022%)  
p.T837A (0.0044%)  
p.L1016V (0.0044%)  
p.Q1889E (0.0044%)  
p.L2292V (0.0044%)  
p.A877S (0.0044%)  
p.L510F (0.0044%)  
p.E2030L (0.0044%)  
p.R2126W (0.0044%)  
p.S485Y (0.0044%)  
p.Q1114E (0.0044%)  
p.D2143Vfs\*25 (0.0044%)  
p.R560C (0.0044%)  
p.Y382H (0.0044%)  
p.D1776H (0.0022%)  
p.T145P (0.0022%)  
p.K1661Q (0.0022%)  
p.H189Y (0.0022%)  
p.V1183I (0.0022%)  
p.E1846D (0.0022%)  
p.P1662L (0.0022%)  
p.K1818N (0.0022%)  
p.Y422D (0.0022%)  
p.V1896G (0.0022%)  
p.K2117E (0.0022%)  
p.Y1408C (0.0022%)  
p.I745= (0.0022%)  
p.L567= (0.0022%)  
p.L1928V (0.0022%)  
p.S932T (0.0022%)  
p.G1296S (0.0022%)  
p.L2150= (0.0022%)  
p.F518L (0.0022%)  
p.S2326F (0.0022%)  
p.E505K (0.0022%)  
p.W1176R (0.0022%)  
p.N706= (0.0022%)  
p.S282L (0.0022%)  
p.E596K (0.0022%)  
p.F1085L (0.0022%)  
p.L1336= (0.0022%)  
p.Q772= (0.0022%)  
p.R1182S (0.0022%)  
p.P194S (0.0022%)  
p.I855M (0.0022%)  
p.V915I (0.0022%)  
p.W1694\* (0.0022%)  
p.K2328R (0.0022%)  
p.A313E (0.0022%)  
p.G2148E (0.0022%)  
p.A1423= (0.0022%)  
p.A1125= (0.0022%)  
p.N2234K (0.0022%)  
p.V2068= (0.0022%)  
p.S744R (0.0022%)  
p.P1743Q (0.0022%)  
p.R1311Q (0.0022%)  
p.P1539S (0.0022%)  
p.L1872V (0.0022%)  
p.T2266R (0.0022%)  
p.N2008Tfs\*3 (0.0022%)  
p.Y2323F (0.0022%)  
p.S551F (0.0022%)  
p.L368I (0.0022%)  
p.Y1700\* (0.0022%)  
p.Y891F (0.0022%)  
p.L1620R (0.0022%)  
p.A1515D (0.0022%)  
p.S2294Y (0.0022%)  
p.D2203N (0.0022%)  
p.R1910\* (0.0022%)  
p.I325N (0.0022%)  
p.A876V (0.0022%)  
p.F1862L (0.0022%)  
p.G531V (0.0022%)  
p.S252T (0.0022%)  
p.E1066K (0.0088%)  
p.E272\* (0.0088%)  
p.R496C (0.0088%)  
p.E215K (0.0088%)  
p.R1443\* (0.0044%)  
p.S561F (0.0066%)  
p.L30F (0.0066%)  
p.D1760V (0.0022%)  
p.E515\* (0.0022%)  
p.Q81E (0.0044%)  
p.Q1395E (0.0044%)  
p.E1222Q (0.0044%)  
p.R71Kfs\*10 (0.0044%)  
p.G1371Vfs\*4 (0.0044%)  
p.Q356R (0.0044%)  
p.P1635Qfs\*19 (0.0044%)  
p.E362= (0.0022%)  
p.S1590G (0.0044%)  
p.E729Rfs\*10 (0.0044%)  
p.R496H (0.0044%)  
p.K608N (0.0044%)  
p.E1219Ffs\*12 (0.0044%)  
p.G1846R (0.0044%)  
p.E23Vfs\*17 (0.0044%)  
p.T1249P (0.0022%)  
p.L358Kfs\*13 (0.0044%)  
p.R951K (0.0044%)  
p.P871S (0.0044%)  
p.S864L (0.0044%)  
p.S868L (0.0044%)  
p.Q1546H (0.0044%)  
p.L512F (0.0044%)  
p.A1690S (0.0044%)  
p.E23Rfs\*18 (0.0044%)  
p.N810Y (0.0044%)  
p.P364R (0.0044%)  
p.Q1777Pfs\*74 (0.0044%)  
p.R1856\* (0.0044%)  
p.Q1240L (0.0044%)  
p.I373L (0.0044%)  
p.R466Q (0.0044%)  
p.D1526Mfs\*43 (0.0044%)  
p.K38N (0.0044%)  
p.L1098I (0.0022%)  
p.D1220N (0.0022%)  
p.S1301N (0.0022%)  
p.Q1742R (0.0022%)  
p.F1793Lfs\*29 (0.0022%)  
p.S1139= (0.0022%)  
p.P115\* (0.0022%)  
p.R1610C (0.0022%)  
p.K1183R (0.0022%)  
p.E1038G (0.0022%)  
p.L771= (0.0022%)  
p.S694= (0.0022%)  
p.S1634G (0.0022%)  
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p.S915C (0.0022%)  
p.D1599H (0.0022%)  
p.L1621= (0.0022%)  
p.E1602K (0.0022%)  
p.S1056F (0.0022%)  
p.E1304V (0.0022%)  
p.E9Q (0.0022%)  
p.R1765K (0.0022%)  
p.A622V (0.0022%)  
p.S1504= (0.0022%)  
p.D1496E (0.0022%)  
p.D1344H (0.0022%)  
p.S578F (0.0022%)  
p.R7= (0.0022%)  
p.S1280\_Q1281delins\* (0.0022%)  
p.E1282Afs\*26 (0.0022%)  
p.D1527H (0.0022%)  
p.F1231L (0.0022%)  
p.E720\* (0.0022%)  
p.Q1408\* (0.0022%)  
p.M1848L (0.0022%)  
p.R1028H (0.0022%)  
p.V83F (0.0022%)  
p.V1023= (0.0022%)  
p.E111Gfs\*3 (0.0022%)  
p.Q934\* (0.0022%)  
p.C801S (0.0022%)  
p.D96H (0.0022%)  
p.R1856L (0.0022%)  
p.Y1584Tfs\*38 (0.0022%)  
p.E962K (0.0022%)  
p.E1210\* (0.0022%)  
p.N1121Kfs\*12 (0.0022%)  
p.R1670Tfs\*7 (0.0022%)  
p.C1372Efs\*2 (0.0022%)  
p.A878Gfs\*24 (0.0022%)  
p.S1027I (0.0022%)  
p.A224S (0.0022%)  
p.E686\* (0.0022%)  
p.A521= (0.0022%)  
p.E1373= (0.0022%)  
p.Q1832R (0.0022%)  
p.C644del (0.0022%)  
p.N1751S (0.0022%)  
p.Y101N (0.0022%)  
p.E881\* (0.0022%)  
p.Q1832L (0.0022%)  
p.V772A (0.0022%)  
p.D2E (0.0022%)  
p.W1836\* (0.0022%)  
p.E1419\* (0.0022%)  
p.K1745\* (0.0022%)  
p.G928Afs\*72 (0.0022%)  
p.K607E (0.0022%)  
p.L1084= (0.0022%)  
p.G1809V (0.0022%)  
p.G948Efs\*52 (0.0022%)  
p.E1752Q (0.0022%)  
p.E1011K (0.0022%)  
p.L1335= (0.0022%)  
p.D366N (0.0022%)  
p.V14D (0.0022%)  
p.K894Tfs\*8 (0.0022%)  
p.Q172Nfs\*62 (0.0022%)  
p.V1675Cfs\*4 (0.0022%)  
p.S708F (0.0022%)  
p.N714Kfs\*4 (0.0022%)  
p.N1081T (0.0022%)  
p.R613K (0.0022%)  
p.E842K (0.0022%)  
p.R1203\* (0.0022%)  
p.E1115\* (0.0022%)  
p.L1086Dfs\*2 (0.0022%)  
p.S1817Lfs\*34 (0.0022%)  
p.W1858R (0.0022%)  
p.H1105N (0.0022%)  
p.E23Afs\*18 (0.0022%)  
p.L758F (0.0022%)  
p.K339Rfs\*2 (0.0022%)  
p.W372Yfs\*5 (0.0022%)  
p.S694N (0.0022%)  
p.H437\* (0.0022%)  
p.V1825D (0.0022%)  
p.V1611G (0.0022%)  
p.E1250\* (0.0022%)  
p.S153R (0.0022%)  
p.Q1395\* (0.0022%)  
p.R1747Kfs\*5 (0.0022%)  
p.T826K (0.0022%)  
p.A224Gfs\*4 (0.0022%)  
p.H1284Tfs\*23 (0.0022%)  
p.S741F (0.0022%)  
p.K408E (0.0022%)  
p.L1439F (0.0022%)  
p.G1087A (0.0022%)  
p.Q169\* (0.0022%)  
p.Y655Vfs\*18 (0.0022%)  
p.S1598P (0.0022%)  
p.M1804T (0.0022%)  
p.V340Gfs\*6 (0.0022%)  
p.N1355Kfs\*10 (0.0022%)  
p.Q12\_V14delinsH (0.0022%)  
p.S316G (0.0022%)  
p.G911Efs\*89 (0.0022%)  
p.R1856Q (0.0022%)  
p.C1718R (0.0022%)  
p.N1029Kfs\*3 (0.0022%)  
p.S1140G (0.0022%)  
p.R1666T (0.0022%)  
p.E453Rfs\*22 (0.0022%)  
p.C197Y (0.0022%)  
p.E1329\* (0.0022%)  
p.G778C (0.0022%)  
p.V370I (0.0022%)  
p.K608Ifs\*3 (0.0022%)  
p.T1698Ifs\*2 (0.0022%)  
p.L481V (0.0022%)  
p.K50T (0.0022%)  
p.W1858C (0.0022%)  
p.V8F (0.0022%)  
p.E1288Kfs\*19 (0.0022%)  
p.S426\* (0.0022%)  
p.G1492Afs\*34 (0.0022%)  
p.I986M (0.0022%)  
p.K309Q (0.0022%)  
p.S127N (0.0022%)  
p.Q1546Rfs\*5 (0.0022%)  
p.D96N (0.0022%)  
p.N555Ifs\*17 (0.0022%)  
p.S988\* (0.0022%)  
p.I925Nfs\*13 (0.0022%)  
p.C1225Sfs\*10 (0.0022%)  
p.G275D (0.0022%)  
p.W372\* (0.0022%)  
p.S451\* (0.0022%)  
p.P724Lfs\*12 (0.0022%)  
p.R388\* (0.0022%)  
p.K567\_L570del (0.0154%)  
p.F456\_Q457del (0.011%)  
p.R465\* (0.011%)  
p.E635K (0.0088%)  
p.D464\_Y467del (0.0044%)  
p.K459del (0.0044%)  
p.L380del (0.0066%)  
p.L272F (0.0066%)  
p.I133M (0.0066%)  
p.I571\_L581del (0.0066%)  
p.E462\_R465del (0.0066%)  
p.N595Rfs\*6 (0.0044%)  
p.K379E (0.0066%)  
p.N453dup (0.0066%)  
p.D560Y (0.0066%)  
p.V402\_L413del (0.0066%)  
p.E635\* (0.0066%)  
p.R348\* (0.0022%)  
p.D68Gfs\*38 (0.0022%)  
p.Q329Kfs\*15 (0.0022%)  
p.V445\_H450del (0.0022%)  
p.E205K (0.0044%)  
p.D560H (0.0044%)  
p.R574del (0.0044%)  
p.K141= (0.0044%)  
p.L687Ffs\*54 (0.0044%)  
p.K561Qfs\*7 (0.0044%)  
p.R562P (0.0044%)  
p.L573P (0.0022%)  
p.D440G (0.0044%)  
p.N453del (0.0044%)  
p.L647V (0.0044%)  
p.K567\_I571del (0.0044%)  
p.R557Qfs\*7 (0.0044%)  
p.A91= (0.0044%)  
p.Y452\_N453insF (0.0044%)  
p.P1289R (0.0044%)  
p.R465dup (0.0044%)  
p.K575\_R577del (0.0044%)  
p.N453\_Q455delinsK (0.0044%)  
p.T63= (0.0044%)  
p.L370R (0.0044%)  
p.Y580Xfs\*19 (0.0044%)  
p.KTRDQYLM\*VFEMESYT\*IIGDCYNSG\*VNAFSFQNCFSGG\*LKKV\*R575delext\*? (0.0044%)  
p.Y580\_L581del (0.0044%)  
p.R557\* (0.0022%)  
p.L843= (0.0022%)  
p.L1243= (0.0022%)  
p.G978E (0.0022%)  
p.S339W (0.0022%)  
p.I571\_R574del (0.0022%)  
p.H669Q (0.0022%)  
p.G644C (0.0022%)  
p.P503= (0.0022%)  
p.A743T (0.0022%)  
p.P827A (0.0022%)  
p.M326I (0.0022%)  
p.Y73= (0.0022%)  
p.G644S (0.0022%)  
p.V197I (0.0022%)  
p.S655L (0.0022%)  
p.L549F (0.0022%)  
p.Y1305= (0.0022%)  
p.R1329\* (0.0022%)  
p.E515K (0.0022%)  
p.F275L (0.0022%)  
p.Q459\* (0.0022%)  
p.E85V (0.0022%)  
p.V97= (0.0022%)  
p.V621= (0.0022%)  
p.P129Q (0.0022%)  
p.L276F (0.0022%)  
p.F392= (0.0022%)  
p.S652Lfs\*28 (0.0022%)  
p.L95= (0.0022%)  
p.R37C (0.0022%)  
p.I162M (0.0022%)  
p.V436Sfs\*8 (0.0022%)  
p.L449\_H450delinsY (0.0022%)  
p.S460\_R465dup (0.0022%)  
p.K459\_S460insKSRI\*\* (0.0022%)  
p.G1306R (0.0022%)  
p.K575del (0.0022%)  
p.E345K (0.0022%)  
p.I82Sfs\*32 (0.0022%)  
p.G429S (0.0022%)  
p.N260H (0.0022%)  
p.I539del (0.0022%)  
p.K459\_S460dup (0.0022%)  
p.D13V (0.0022%)  
p.A10= (0.0022%)  
p.R465\_L466insII\*R (0.0022%)  
p.L132V (0.0022%)  
p.R557Q (0.0022%)  
p.D569dup (0.0022%)  
p.E555\_S565del (0.0022%)  
p.K575\_T576dup (0.0022%)  
p.L449\_K459del (0.0022%)  
p.E849K (0.0022%)  
p.I383K (0.0022%)  
p.V32Efs\*2 (0.0022%)  
p.K419= (0.0022%)  
p.S460Kfs\*5 (0.0022%)  
p.I493Yfs\*17 (0.0022%)  
p.D464\_R465insKI (0.0022%)  
p.I524N (0.0022%)  
p.Y203Sfs\*4 (0.0022%)  
p.R461\_E462insRI\*\*II\*R (0.0022%)  
p.A185T (0.0022%)  
p.S361= (0.0022%)  
p.E451\_Y452del (0.0022%)  
p.G353V (0.0022%)  
p.G828= (0.0022%)  
p.N630Tfs\*32 (0.0022%)  
p.E468\_E469insGEYDRLYE (0.0022%)  
p.L396Vfs\*6 (0.0022%)  
p.K448\_N453del (0.0022%)  
p.F456\_R461del (0.0022%)  
p.Q579\_Y580insDK (0.0022%)  
p.R577\_D578dup (0.0022%)  
p.L380Sfs\*16 (0.0022%)  
p.M364\_L372delinsI (0.0022%)  
p.T454Sfs\*25 (0.0022%)  
p.L466\_E469dup (0.0022%)  
p.I22T (0.0022%)  
p.P413R (0.0022%)  
p.K16Rfs\*15 (0.0022%)  
p.R574T (0.0022%)  
p.A634P (0.0022%)  
p.W335Gfs\*5 (0.0022%)  
p.I571\_Q572insHKPDLI (0.0022%)  
p.P235T (0.0022%)  
p.D464N (0.0022%)  
p.P96Lfs\*18 (0.0022%)  
p.V172M (0.0022%)  
p.M391R (0.0022%)  
p.Q455\_F456delinsH (0.0022%)  
p.H697Tfs\*44 (0.0022%)  
p.I559T (0.0022%)  
p.D440\_E443del (0.0022%)  
p.M563\_S565del (0.0022%)  
p.K379\* (0.0022%)  
p.E297K (0.0022%)  
p.E468\_E469insGLYE (0.0022%)  
p.R66K (0.0022%)  
p.N406K (0.0022%)  
p.I571\_Q572del (0.0022%)  
p.M563\_L570delinsI (0.0022%)  
p.R348Q (0.0022%)  
p.S662L (0.0022%)  
p.Y452del (0.0022%)  
p.E510V (0.0022%)  
p.E21= (0.0022%)  
p.L449\_Q457del (0.0022%)  
p.L193Ffs\*13 (0.0022%)  
p.F456\_Q457dup (0.0022%)  
p.L449S (0.0022%)  
p.Y150X\*22 (0.0022%)  
p.G446\_E458del (0.0022%)  
p.D643Y (0.0022%)  
p.K567del (0.0022%)  
p.R642\* (0.0022%)  
p.E451\_F456del (0.0022%)  
p.K567\_I571delinsN (0.0022%)  
p.I571\_T576delinsM (0.0022%)  
p.K551\_M563dup (0.0022%)  
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p.T576del (0.0022%)  
p.K567E (0.0022%)  
p.P568\_T576del (0.0022%)  
p.Q455\_F456insL (0.0022%)  
p.L449del (0.0022%)  
p.R642L (0.0022%)  
p.S1359\* (0.011%)  
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p.L254I (0.0066%)  
p.Q775R (0.0066%)  
p.K783E (0.0066%)  
p.Q775L (0.0066%)  
p.L326V (0.0066%)  
p.S373P (0.0066%)  
p.F369S (0.0066%)  
p.R1162H (0.0066%)  
p.P2526Hfs\*46 (0.0066%)  
p.C814F (0.0066%)  
p.F2056L (0.0044%)  
p.E605D (0.0044%)  
p.E657Q (0.0044%)  
p.S617\* (0.0044%)  
p.E1340K (0.0044%)  
p.E249Kfs\*12 (0.0044%)  
p.R604\* (0.0044%)  
p.E2284= (0.0044%)  
p.R2558T (0.0044%)  
p.A251T (0.0044%)  
p.E2613I (0.0044%)  
p.S115F (0.0044%)  
p.L2439= (0.0044%)  
p.V1627F (0.0044%)  
p.E595K (0.0044%)  
p.T4= (0.0044%)  
p.V84= (0.0044%)  
p.G2066A (0.0044%)  
p.L998V (0.0044%)  
p.V2577G (0.0044%)  
p.L1127V (0.0044%)  
p.S822C (0.0044%)  
p.T1396M (0.0044%)  
p.Q775E (0.0044%)  
p.Q1058Sfs\*5 (0.0044%)  
p.F2122L (0.0044%)  
p.Q232H (0.0044%)  
p.E1380K (0.0044%)  
p.E2220K (0.0044%)  
p.Q2669R (0.0044%)  
p.C494= (0.0022%)  
p.E583= (0.0022%)  
p.K1180= (0.0022%)  
p.V614L (0.0022%)  
p.S726P (0.0022%)  
p.I2218= (0.0022%)  
p.R1173C (0.0022%)  
p.I1582M (0.0022%)  
p.R9K (0.0022%)  
p.G1421E (0.0022%)  
p.A750D (0.0022%)  
p.S2687R (0.0022%)  
p.G1929W (0.0022%)  
p.D212H (0.0022%)  
p.E1974K (0.0022%)  
p.P2160L (0.0022%)  
p.R788G (0.0022%)  
p.P2492L (0.0022%)  
p.F2122V (0.0022%)  
p.L2147R (0.0022%)  
p.E1978K (0.0022%)  
p.F1292C (0.0022%)  
p.E2217K (0.0022%)  
p.E1261K (0.0022%)  
p.L1005= (0.0022%)  
p.E1198\_R1200del (0.0022%)  
p.R2084= (0.0022%)  
p.E1130G (0.0022%)  
p.R1986C (0.0022%)  
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p.S758L (0.0022%)  
p.H521R (0.0022%)  
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p.R695G (0.0022%)  
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p.P1209A (0.0022%)  
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p.K683N (0.0022%)  
p.H1921Q (0.0022%)  
p.E990\* (0.0022%)  
p.N1933H (0.0022%)  
p.R1404H (0.0022%)  
p.A1036= (0.0022%)  
p.K1271= (0.0022%)  
p.S655N (0.0022%)  
p.K1964N (0.0022%)  
p.P530L (0.0022%)  
p.A1036V (0.0022%)  
p.G835C (0.0022%)  
p.R508S (0.0022%)  
p.R1019H (0.0022%)  
p.L598= (0.0022%)  
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p.K2195N (0.0022%)  
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p.R1167H (0.0022%)  
p.A2634S (0.0022%)  
p.R1663C (0.0022%)  
p.P1265L (0.0022%)  
p.R360T (0.0066%)  
p.L466= (0.0044%)  
p.S622I (0.0044%)  
p.Q523\* (0.0044%)  
p.E636\* (0.0044%)  
p.H615Y (0.0044%)  
p.R594L (0.0044%)  
p.R674L (0.0044%)  
p.K392E (0.0044%)  
p.A227T (0.0044%)  
p.A273S (0.0044%)  
p.R243W (0.0044%)  
p.I675S (0.0044%)  
p.S189L (0.0022%)  
p.P653= (0.0022%)  
p.S630C (0.0022%)  
p.S651C (0.0022%)  
p.K88= (0.0022%)  
p.T571= (0.0022%)  
p.N126= (0.0022%)  
p.V23I (0.0022%)  
p.N254= (0.0022%)  
p.Y290F (0.0022%)  
p.P65S (0.0022%)  
p.P218L (0.0022%)  
p.S551G (0.0022%)  
p.T494N (0.0022%)  
p.Q665H (0.0066%)  
p.Q524L (0.0066%)  
p.R459T (0.0066%)  
p.S772\* (0.0066%)  
p.R836\* (0.0066%)  
p.R658= (0.0066%)  
p.H639D (0.0066%)  
p.D904E (0.0066%)  
p.K764E (0.0044%)  
p.P244= (0.0044%)  
p.D838H (0.0044%)  
p.E1151K (0.0044%)  
p.E967D (0.0044%)  
p.T632I (0.0044%)  
p.I1016= (0.0044%)  
p.V984E (0.0022%)  
p.L571F (0.0044%)  
p.V723Hfs\*13 (0.0044%)  
p.Q815\* (0.0044%)  
p.I504F (0.0044%)  
p.S197Y (0.0044%)  
p.S614Y (0.0044%)  
p.K186E (0.0044%)  
p.M1041L (0.0044%)  
p.G249A (0.0044%)  
p.F934V (0.0022%)  
p.F1121L (0.0022%)  
p.A778V (0.0022%)  
p.L909V (0.0022%)  
p.Q582H (0.0022%)  
p.S145= (0.0022%)  
p.L445= (0.0022%)  
p.I983N (0.0022%)  
p.L134V (0.0022%)  
p.L33R (0.0022%)  
p.E421Q (0.0022%)  
p.Y147D (0.0022%)  
p.G75= (0.0022%)  
p.L1083= (0.0022%)  
p.E967= (0.0022%)  
p.L811= (0.0022%)  
p.E1203Q (0.0022%)  
p.D736H (0.0022%)  
p.F670S (0.0022%)  
p.A1187T (0.0022%)  
p.R171T (0.0022%)  
p.I746= (0.0022%)  
p.L717V (0.0022%)  
p.Q540\_S542del (0.0022%)  
p.G249= (0.0022%)  
p.D674G (0.0022%)  
p.P1017A (0.0022%)  
p.S913F (0.0022%)  
p.Y110F (0.0022%)  
p.K234= (0.0022%)  
p.A453T (0.0022%)  
p.E296D (0.0022%)  
p.N428T (0.0022%)  
p.S964C (0.0022%)  
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p.G690R (0.0022%)  
p.P47A (0.0022%)  
p.D1207Y (0.0022%)  
p.V114M (0.0066%)  
p.S152F (0.0044%)  
p.L484H (0.0044%)  
p.R155I (0.0022%)  
p.E579= (0.0022%)  
p.R18Q (0.0022%)  
p.L485F (0.0022%)  
p.E581K (0.0022%)  
p.S455= (0.0022%)  
p.T250A (0.0022%)  
p.E605G (0.0022%)  
p.S336T (0.0022%)  
p.V322= (0.0022%)  
p.S107T (0.0022%)  
p.R282H (0.0022%)  
p.A547T (0.0022%)  
p.E928G (0.0991%)  
p.V104L (0.0286%)  
p.D297Y (0.0154%)  
p.G284R (0.0154%)  
p.S846I (0.0154%)  
p.E332K (0.0132%)  
p.K329E (0.0132%)  
p.Q809R (0.011%)  
p.V104M (0.0088%)  
p.T355I (0.0088%)  
p.R135C (0.0088%)  
p.G1150E (0.0066%)  
p.A232V (0.0066%)  
p.E928A (0.0066%)  
p.K329T (0.0066%)  
p.P306R (0.0066%)  
p.P583S (0.0044%)  
p.K434E (0.0044%)  
p.I449= (0.0044%)  
p.L664= (0.0044%)  
p.E1189K (0.0044%)  
p.S300C (0.0044%)  
p.E392\* (0.0044%)  
p.C290F (0.0044%)  
p.S506del (0.0044%)  
p.L431F (0.0044%)  
p.L263V (0.0044%)  
p.N953K (0.0044%)  
p.F656Sfs\*2 (0.0044%)  
p.D862H (0.0044%)  
p.D501N (0.0044%)  
p.K356N (0.0044%)  
p.M60R (0.0044%)  
p.D483N (0.0044%)  
p.R667S (0.0044%)  
p.C509= (0.0044%)  
p.D41N (0.0044%)  
p.D297E (0.0044%)  
p.R103C (0.0044%)  
p.A696P (0.0044%)  
p.R580\* (0.0044%)  
p.E925K (0.0044%)  
p.V295A (0.0044%)  
p.L1027M (0.0022%)  
p.L783M (0.0022%)  
p.D746= (0.0022%)  
p.E479K (0.0022%)  
p.R679Pfs\*8 (0.0022%)  
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p.L1231P (0.0022%)  
p.V719= (0.0022%)  
p.R1116= (0.0022%)  
p.S1119C (0.0022%)  
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p.Q672= (0.0022%)  
p.L792V (0.0022%)  
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p.L783V (0.0022%)  
p.R667L (0.0022%)  
p.A378P (0.0022%)  
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p.E1107Q (0.0022%)  
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p.G216A (0.0022%)  
p.L136= (0.0022%)  
p.L368= (0.0022%)  
p.K383Sfs\*15 (0.0022%)  
p.D313H (0.0022%)  
p.T1169P (0.0022%)  
p.R611= (0.0022%)  
p.Q754E (0.0022%)  
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p.S1096P (0.0022%)  
p.P1326A (0.0022%)  
p.S1234C (0.0022%)  
p.K498I (0.0022%)  
p.R750W (0.0022%)  
p.E1261A (0.0022%)  
p.G527A (0.0022%)  
p.S1049R (0.0022%)  
p.T389K (0.0022%)  
p.C500Sfs\*3 (0.0022%)  
p.Q138L (0.0022%)  
p.R1080H (0.0022%)  
p.A931Hfs\*13 (0.0022%)  
p.S717= (0.0022%)  
p.V264A (0.0022%)  
p.D308H (0.0022%)  
p.E1198K (0.0022%)  
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p.K434R (0.0022%)  
p.E332Q (0.0022%)  
p.P307L (0.0022%)  
p.E1174Kfs\*27 (0.0022%)  
p.S1069Y (0.0022%)  
p.G1128A (0.0022%)  
p.Q133H (0.0022%)  
p.W877C (0.0022%)  
p.E1317K (0.0022%)  
p.R490C (0.0022%)  
p.Q865H (0.0022%)  
p.G419A (0.0022%)  
p.V528F (0.0022%)  
p.E1018Q (0.0022%)  
p.R453H (0.0022%)  
p.R1089P (0.0022%)  
p.M120V (0.0022%)  
p.C235Xfs\*? (0.0022%)  
p.R521\* (0.0022%)  
p.D171N (0.0022%)  
p.Q575\* (0.0022%)  
p.T1342T (0.0022%)  
p.R1040Q (0.0022%)  
p.D73N (0.0022%)  
p.H157Y (0.0022%)  
p.Q281H (0.0022%)  
p.I744T (0.0022%)  
p.H828= (0.0022%)  
p.E200Q (0.0022%)  
p.N522S (0.0022%)  
p.P262H (0.0022%)  
p.Q607K (0.0022%)  
p.A130T (0.0022%)  
p.I1307K (0.011%)  
p.E1719Q (0.0088%)  
p.H1965D (0.0088%)  
p.E443K (0.0088%)  
p.Q341L (0.0066%)  
p.S2621= (0.0066%)  
p.K1462N (0.0066%)  
p.Q2375\* (0.0066%)  
p.K1593Sfs\*57 (0.0066%)  
p.S1539\* (0.0066%)  
p.D1807H (0.0066%)  
p.E1317Q (0.0066%)  
p.P870S (0.0066%)  
p.R216Q (0.0044%)  
p.S1213L (0.0044%)  
p.S926C (0.0044%)  
p.S2270C (0.0044%)  
p.Q1477\* (0.0044%)  
p.E1064K (0.0044%)  
p.H1845N (0.0044%)  
p.T1267S (0.0044%)  
p.S2277F (0.0044%)  
p.D1868H (0.0044%)  
p.E2662K (0.0044%)  
p.S1658R (0.0044%)  
p.G2717\_L2718del (0.0044%)  
p.R1882T (0.0044%)  
p.D1133H (0.0044%)  
p.K1199N (0.0044%)  
p.R1158T (0.0044%)  
p.R2470T (0.0044%)  
p.L1021V (0.0044%)  
p.L145F (0.0044%)  
p.D2059N (0.0044%)  
p.L795= (0.0044%)  
p.E1577\* (0.0044%)  
p.Q886H (0.0044%)  
p.D971N (0.0044%)  
p.P1594Afs\*38 (0.0044%)  
p.K1310\* (0.0044%)  
p.N1797Kfs\*2 (0.0044%)  
p.A735= (0.0044%)  
p.R1858\* (0.0044%)  
p.Q1096\* (0.0044%)  
p.L409I (0.0022%)  
p.E109\* (0.0022%)  
p.S1400L (0.0022%)  
p.S2223\* (0.0022%)  
p.A1366V (0.0022%)  
p.S2432L (0.0022%)  
p.F1805L (0.0022%)  
p.D2817H (0.0022%)  
p.E1726Q (0.0022%)  
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p.Y622\* (0.0022%)  
p.I404M (0.0022%)  
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p.R1386K (0.0022%)  
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p.R2305T (0.0022%)  
p.N2705S (0.0022%)  
p.G2145R (0.0022%)  
p.S2586Vfs\*7 (0.0022%)  
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p.E1265Q (0.0022%)  
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p.E2074\* (0.0022%)  
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p.V915= (0.0022%)  
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p.K1333R (0.0022%)  
p.L472Q (0.0022%)  
p.A1731P (0.0022%)  
p.E14Q (0.0022%)  
p.Q1237Efs\*2 (0.0022%)  
p.G2303= (0.0022%)  
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p.G1767A (0.0022%)  
p.R1607T (0.0022%)  
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p.D328Mfs\*8 (0.0022%)  
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p.S1937= (0.0022%)  
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p.E521= (0.0022%)  
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p.S1341\* (0.0022%)  
p.E544\* (0.0022%)  
p.V926I (0.0022%)  
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p.S973\* (0.0022%)  
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p.S742Cfs\*6 (0.0022%)  
p.W237\* (0.0022%)  
p.A85V (0.0022%)  
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p.Q819\* (0.0022%)  
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p.V1003= (0.0022%)  
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p.F20= (0.0022%)  
p.E1024\* (0.0022%)  
p.S16L (0.011%)  
p.E261K (0.0066%)  
p.P107S (0.0044%)  
p.Y391Mfs\*14 (0.0022%)  
p.N382D (0.0022%)  
p.Y391\* (0.0022%)  
p.S284= (0.0022%)  
p.H400N (0.0022%)  
p.S350F (0.0022%)  
p.P20S (0.0022%)  
p.R378P (0.0022%)  
p.S271= (0.0022%)  
p.P25R (0.0022%)  
p.R299K (0.0022%)  
p.D820N (0.0044%)  
p.N2136= (0.0022%)  
p.R83I (0.0022%)  
p.E1444K (0.0022%)  
p.I2051M (0.0022%)  
p.R527C (0.0022%)  
p.S2143L (0.0022%)  
p.N910D (0.0022%)  
p.D1897N (0.0022%)  
p.T1934P (0.0022%)  
p.L599R (0.0022%)  
p.E455G (0.0022%)  
p.L1570Q (0.0022%)  
p.K810R (0.0022%)  
p.H1763= (0.0022%)  
p.R1676L (0.0022%)  
p.E831Q (0.0022%)  
p.F908S (0.0022%)  
p.K1069R (0.0022%)  
p.H1500Y (0.0022%)  
p.P467S (0.0022%)  
p.V718E (0.0022%)  
p.T717Qfs\*6 (0.0022%)  
p.F395I (0.0022%)  
p.F107L (0.0022%)  
p.S1997\* (0.0022%)  
p.E1587G (0.0022%)  
p.T654A (0.0022%)  
p.L1440= (0.0022%)  
p.V1270I (0.0022%)  
p.K1211R (0.0022%)  
p.R1342Q (0.0022%)  
p.E953D (0.0022%)  
p.C1947= (0.0022%)  
p.F1910= (0.0022%)  
p.E1864= (0.0022%)  
p.I929N (0.0022%)  
p.N809del (0.0022%)  
p.I1035= (0.0022%)  
p.Q2031\* (0.0022%)  
p.C1548S (0.0022%)  
p.P70Sfs\*13 (0.0264%)  
p.W73\* (0.0198%)  
p.N104S (0.0176%)  
p.G121S (0.0154%)  
p.F12L (0.0132%)  
p.E39G (0.011%)  
p.S53\* (0.0066%)  
p.R3Qfs\*9 (0.0088%)  
p.Q67H (0.0088%)  
p.Q140\* (0.0088%)  
p.Q117\* (0.0088%)  
p.Y85\* (0.0066%)  
p.Q45\* (0.0066%)  
p.K94= (0.0066%)  
p.A99V (0.0066%)  
p.L103R (0.0066%)  
p.R90Kfs\*7 (0.0066%)  
p.Q74\* (0.0066%)  
p.P100A (0.0044%)  
p.Q41\* (0.0022%)  
p.T80Hfs\*9 (0.0022%)  
p.G75\* (0.0022%)  
p.A132T (0.0044%)  
p.N63S (0.0044%)  
p.R3C (0.0044%)  
p.L119Wfs\*20 (0.0044%)  
p.A132V (0.0044%)  
p.R43P (0.0044%)  
p.V4F (0.0044%)  
p.G51Afs\*31 (0.0044%)  
p.L119Q (0.0044%)  
p.R9G (0.0044%)  
p.D7\_F12del (0.0044%)  
p.R148Efs\*31 (0.0044%)  
p.Q77Nfs\*13 (0.0022%)  
p.E76Kfs\*14 (0.0022%)  
p.G123C (0.0022%)  
p.V95E (0.0022%)  
p.G51C (0.0022%)  
p.Q133= (0.0022%)  
p.V86= (0.0022%)  
p.R83L (0.0022%)  
p.E39\* (0.0022%)  
p.R35P (0.0022%)  
p.Q74K (0.0022%)  
p.V106G (0.0022%)  
p.E91Yfs\*3 (0.0022%)  
p.A56G (0.0022%)  
p.M122Ifs\*7 (0.0022%)  
p.R49Afs\*40 (0.0022%)  
p.G121D (0.0022%)  
p.M101V (0.0022%)  
p.L66Pfs\*23 (0.0022%)  
p.D128G (0.0022%)  
p.Q67\* (0.0022%)  
p.I102M (0.0022%)  
p.P2Afs\*18 (0.0022%)  
p.L21V (0.0022%)  
p.E152\* (0.0022%)  
p.W110\* (0.0022%)  
p.R118Kfs\*11 (0.0022%)  
p.P36\_Q41del (0.0022%)  
p.G123R (0.0022%)  
p.E13\* (0.0022%)  
p.R90Mfs\*26 (0.0022%)  
p.F44V (0.0022%)  
p.M122Ifs\*16 (0.0022%)  
p.E76Tfs\*6 (0.0022%)  
p.N63I (0.0022%)  
p.W110R (0.0022%)  
p.R83\* (0.0022%)  
p.E152Nfs\*27 (0.0022%)  
p.T80Nfs\*3 (0.0022%)  
p.Y29Gfs\*60 (0.0022%)  
p.T1010I (0.011%)  
p.D114N (0.0088%)  
p.G1260Kfs\*43 (0.0088%)  
p.S907F (0.0088%)  
p.N375S (0.0088%)  
p.V465G (0.0066%)  
p.E34K (0.0066%)  
p.R413S (0.0066%)  
p.A48= (0.0066%)  
p.E168D (0.0066%)  
p.P533= (0.0044%)  
p.Q648= (0.0044%)  
p.V1019I (0.0044%)  
p.D1198Y (0.0044%)  
p.Y666N (0.0044%)  
p.D946H (0.0044%)  
p.G1288= (0.0044%)  
p.L329I (0.0044%)  
p.S934P (0.0044%)  
p.I1136T (0.0044%)  
p.D1304= (0.0022%)  
p.A1357= (0.0022%)  
p.P1382= (0.0022%)  
p.P1171= (0.0022%)  
p.R1166Q (0.0022%)  
p.L581= (0.0022%)  
p.R992T (0.0022%)  
p.D270Y (0.0022%)  
p.A1244D (0.0022%)  
p.L674\_N680del (0.0022%)  
p.R412C (0.0022%)  
p.P485L (0.0022%)  
p.E28V (0.0022%)  
p.E1017K (0.0022%)  
p.W1267\* (0.0022%)  
p.D414N (0.0022%)  
p.G326V (0.0022%)  
p.E1190= (0.0022%)  
p.D1395H (0.0022%)  
p.R143\* (0.0022%)  
p.R191Q (0.0022%)  
p.G1298R (0.0022%)  
p.V1289= (0.0022%)  
p.G1364= (0.0022%)  
p.G606R (0.0022%)  
p.G225D (0.0022%)  
p.V603I (0.0022%)  
p.E28Q (0.0022%)  
p.T995A (0.0022%)  
p.I565M (0.0022%)  
p.Q830L (0.0022%)  
p.R413= (0.0022%)  
p.T301P (0.0022%)  
p.M362Ifs\*34 (0.0022%)  
p.A361del (0.0022%)  
p.R359\_S360delinsP (0.0022%)  
p.K306N (0.0022%)  
p.S353F (0.0022%)  
p.C808G (0.0022%)  
p.Y390= (0.0022%)  
p.D428N (0.0022%)  
p.K940N (0.0022%)  
p.I817V (0.0022%)  
p.T263M (0.0022%)  
p.F226L (0.0022%)  
p.I754V (0.0022%)  
p.D882N (0.0022%)  
p.G780D (0.0022%)  
p.G1317R (0.0022%)  
p.A1372\_N1376del (0.0022%)  
p.V797M (0.0022%)  
p.I154M (0.0022%)  
p.A932= (0.0022%)  
p.C541G (0.0022%)  
p.G391R (0.0022%)  
p.R412G (0.0022%)  
p.K975\* (0.0022%)  
p.E312K (0.0022%)  
p.H906Y (0.0022%)  
p.L14F (0.0022%)  
p.I316M (0.0022%)  
p.I116M (0.0022%)  
p.D372G (0.0022%)  
p.G782E (0.0022%)  
p.S1353F (0.0022%)  
p.R1022\* (0.0022%)  
p.E1293\* (0.0022%)  
p.T557A (0.0022%)  
p.I284\* (0.0022%)  
p.D1246N (0.0022%)  
p.G539S (0.0022%)  
p.G471E (0.0022%)  
p.A1342= (0.0022%)  
p.S407\* (0.0022%)  
p.M362T (0.0022%)  
p.H1366N (0.0022%)  
p.R412P (0.0022%)  
p.V600E (0.0837%)  
p.G464V (0.0242%)  
p.S154\* (0.0154%)  
p.E186Q (0.011%)  
p.K601N (0.011%)  
p.K142Rfs\*26 (0.0088%)  
p.S295L (0.0088%)  
p.L1010R (0.0088%)  
p.G466R (0.0088%)  
p.P430Rfs\*2 (0.0066%)  
p.W531S (0.0066%)  
p.A428P (0.0066%)  
p.D594G (0.0066%)  
p.Q180E (0.0066%)  
p.I326T (0.0066%)  
p.K860Nfs\*16 (0.0044%)  
p.A699= (0.0044%)  
p.D418N (0.0044%)  
p.N148S (0.0044%)  
p.W777C (0.0044%)  
p.S1066C (0.0044%)  
p.R1007T (0.0044%)  
p.W1047\* (0.0044%)  
p.E1029K (0.0044%)  
p.Q66R (0.0044%)  
p.L235V (0.0044%)  
p.Q834\* (0.0044%)  
p.Q986\* (0.0044%)  
p.K67N (0.0044%)  
p.W777\* (0.0044%)  
p.E83D (0.0044%)  
p.K616N (0.0044%)  
p.G469A (0.0044%)  
p.R347L (0.0044%)  
p.S1062C (0.0044%)  
p.N357Tfs\*20 (0.0044%)  
p.G490A (0.0044%)  
p.D629Y (0.0044%)  
p.H628P (0.0044%)  
p.K601E (0.0044%)  
p.R843I (0.0044%)  
p.M192I (0.0044%)  
p.R343Q (0.0044%)  
p.P861Tfs\*4 (0.0044%)  
p.V159= (0.0044%)  
p.H60R (0.0044%)  
p.V600M (0.0044%)  
p.R237S (0.0044%)  
p.R232S (0.0044%)  
p.M523I (0.0044%)  
p.D449N (0.0022%)  
p.L1127R (0.0022%)  
p.G191E (0.0022%)  
p.P761T (0.0022%)  
p.S228F (0.0022%)  
p.S1082C (0.0022%)  
p.S294\* (0.0022%)  
p.V268G (0.0022%)  
p.S112C (0.0022%)  
p.S535= (0.0022%)  
p.C1131Y (0.0022%)  
p.R839Q (0.0022%)  
p.C469Y (0.0022%)  
p.I530= (0.0022%)  
p.G182= (0.0022%)  
p.L4V (0.0022%)  
p.E204D (0.0022%)  
p.D587E (0.0022%)  
p.P453H (0.0022%)  
p.I326V (0.0022%)  
p.L29= (0.0022%)  
p.E37\* (0.0022%)  
p.P733= (0.0022%)  
p.T233K (0.0022%)  
p.E26K (0.0022%)  
p.Q1126\* (0.0022%)  
p.G600W (0.0022%)  
p.K473M (0.0022%)  
p.E433K (0.0022%)  
p.F636= (0.0022%)  
p.T1100K (0.0022%)  
p.P370S (0.0022%)  
p.E223Dfs\*11 (0.0022%)  
p.K206E (0.0022%)  
p.E309\* (0.0022%)  
p.V157I (0.0022%)  
p.S198\* (0.0022%)  
p.M109I (0.0022%)  
p.D479Y (0.0022%)  
p.E501K (0.0022%)  
p.N581S (0.0022%)  
p.S295\* (0.0022%)  
p.D418H (0.0022%)  
p.V624= (0.0022%)  
p.S397C (0.0022%)  
p.Q1143\* (0.0022%)  
p.H539P (0.0022%)  
p.L537S (0.0022%)  
p.S125F (0.0022%)  
p.K1090Q (0.0022%)  
p.I375L (0.0022%)  
p.G780R (0.0022%)  
p.G466E (0.0022%)  
p.K483E (0.0022%)  
p.F1134L (0.0022%)  
p.C189Y (0.0022%)  
p.L416S (0.0022%)  
p.T745M (0.0022%)  
p.G209= (0.0022%)  
p.S154L (0.0022%)  
p.Y422Ifs\*11 (0.0022%)  
p.H421Qfs\*12 (0.0022%)  
p.I735M (0.0022%)  
p.D594R (0.0022%)  
p.E1051\* (0.0022%)  
p.R809W (0.0022%)  
p.G469E (0.0022%)  
p.L346Tfs\*4 (0.0022%)  
p.G258C (0.0022%)  
p.V238= (0.0022%)  
p.N1144S (0.0022%)  
p.R384G (0.0022%)  
p.G319W (0.0022%)  
p.S1043I (0.0022%)  
p.Y704\* (0.0022%)  
p.L346P (0.0022%)  
p.K698R (0.0022%)  
p.L158P (0.0022%)  
p.S407F (0.0022%)  
p.S458Rfs\*8 (0.0022%)  
p.L597R (0.0022%)  
p.S996F (0.0022%)  
p.G104W (0.0022%)  
p.H106Y (0.0022%)  
p.S816\* (0.0022%)  
p.C817Y (0.0022%)  
p.N581I (0.0022%)  
p.R735Q (0.0022%)  
p.W467\* (0.0022%)  
p.T25S (0.0022%)  
p.E637K (0.0022%)  
p.K795E (0.0022%)  
p.G464E (0.0022%)  
p.G466V (0.0022%)  
p.D262N (0.011%)  
p.E1119K (0.0066%)  
p.P1559S (0.0066%)  
p.Q499= (0.0066%)  
p.S1964C (0.0066%)  
p.S1834Rfs\*194 (0.0066%)  
p.S1837\_G1839dup (0.0066%)  
p.R2235= (0.0044%)  
p.Q501= (0.0044%)  
p.A919= (0.0044%)  
p.P687L (0.0044%)  
p.Q509\_Q510del (0.0044%)  
p.E735Q (0.0044%)  
p.G804R (0.0044%)  
p.L2272P (0.0044%)  
p.G3= (0.0022%)  
p.P1204= (0.0022%)  
p.T905= (0.0022%)  
p.L1966V (0.0022%)  
p.R441W (0.0022%)  
p.T1514= (0.0022%)  
p.P1360T (0.0022%)  
p.I1359= (0.0022%)  
p.L2272= (0.0022%)  
p.K2257Q (0.0022%)  
p.I582= (0.0022%)  
p.V252G (0.0022%)  
p.S1138\* (0.0022%)  
p.E543\* (0.0022%)  
p.M640V (0.0022%)  
p.Y1280F (0.0022%)  
p.R1639C (0.0022%)  
p.N610S (0.0022%)  
p.R2386W (0.0022%)  
p.R2128L (0.0022%)  
p.E1809D (0.0022%)  
p.C466= (0.0022%)  
p.V1145G (0.0022%)  
p.V2123= (0.0022%)  
p.P2299A (0.0022%)  
p.A2133V (0.0022%)  
p.D702N (0.0022%)  
p.E2300\* (0.0022%)  
p.T597= (0.0022%)  
p.T597I (0.0022%)  
p.T597A (0.0022%)  
p.A1754S (0.0022%)  
p.N540Rfs\*48 (0.0022%)  
p.R1060Pfs\*2 (0.0022%)  
p.R488Q (0.0022%)  
p.T1230Pfs\*6 (0.0022%)  
p.A694T (0.0022%)  
p.T35= (0.0022%)  
p.A1235P (0.0022%)  
p.R1810W (0.0022%)  
p.Q1013\* (0.0022%)  
p.S2357T (0.0022%)  
p.S1202\* (0.0022%)  
p.R1259W (0.0022%)  
p.T807A (0.0022%)  
p.W1049\* (0.0022%)  
p.R1257C (0.0022%)  
p.N540Kfs\*70 (0.0022%)  
p.R986Pfs\*76 (0.0022%)  
p.T886S (0.0022%)  
p.E830Rfs\*134 (0.0022%)  
p.R341C (0.0022%)  
p.R1808Q (0.0022%)  
p.P1596L (0.0022%)  
p.R1391W (0.0022%)  
p.L1499V (0.0022%)  
p.I1327M (0.0022%)  
p.E383\* (0.0022%)  
p.P1181L (0.0022%)  
p.G2385R (0.0022%)  
p.A679T (0.0022%)  
p.E1008\* (0.0022%)  
p.E1365K (0.0022%)  
p.R1639H (0.0022%)  
p.A759T (0.0022%)  
p.P1995H (0.0022%)  
p.V564M (0.0022%)  
p.S746P (0.0022%)  
p.S612Efs\*39 (0.0022%)  
p.S2014L (0.0022%)  
p.Q197\* (0.0022%)  
p.R1616Q (0.0022%)  
p.S1575L (0.0022%)  
p.E2274K (0.0022%)  
p.P207Afs\*5 (0.0022%)  
p.L609Afs\*3 (0.0022%)  
p.E1008Afs\*54 (0.0022%)  
p.R1060C (0.0022%)  
p.G1232S (0.0022%)  
p.Q498= (0.0022%)  
p.G1258S (0.0022%)  
p.E556G (0.011%)  
p.R31L (0.0088%)  
p.T564I (0.0066%)  
p.S37L (0.0066%)  
p.R752C (0.0044%)  
p.M828I (0.0066%)  
p.F773L (0.0066%)  
p.M358K (0.0022%)  
p.P840S (0.0044%)  
p.L563= (0.0044%)  
p.D69Y (0.0044%)  
p.R105C (0.0044%)  
p.E262D (0.0044%)  
p.L662= (0.0044%)  
p.D69N (0.0044%)  
p.W421C (0.0044%)  
p.M428\_K431del (0.0044%)  
p.L569R (0.0044%)  
p.L232F (0.0044%)  
p.L83P (0.0044%)  
p.F306V (0.0044%)  
p.V323= (0.0044%)  
p.R473H (0.0044%)  
p.L595V (0.0044%)  
p.L420= (0.0022%)  
p.T379P (0.0022%)  
p.L569P (0.0022%)  
p.L704V (0.0022%)  
p.R560G (0.0022%)  
p.G104R (0.0022%)  
p.R631W (0.0022%)  
p.L650= (0.0022%)  
p.S823C (0.0022%)  
p.F242= (0.0022%)  
p.V176M (0.0022%)  
p.N261= (0.0022%)  
p.R806\* (0.0022%)  
p.V718= (0.0022%)  
p.S674Y (0.0022%)  
p.I411F (0.0022%)  
p.S123I (0.0022%)  
p.F842L (0.0022%)  
p.R834G (0.0022%)  
p.R806Q (0.0022%)  
p.R62K (0.0022%)  
p.R834I (0.0022%)  
p.I653= (0.0022%)  
p.C820\* (0.0022%)  
p.S451F (0.0022%)  
p.L324P (0.0022%)  
p.D326= (0.0022%)  
p.L338F (0.0022%)  
p.P157Hfs\*56 (0.0022%)  
p.E361D (0.0022%)  
p.W753\* (0.0022%)  
p.E583D (0.0022%)  
p.V510L (0.0022%)  
p.H110R (0.0022%)  
p.S755C (0.0022%)  
p.P559L (0.0022%)  
p.L604Gfs\*10 (0.0022%)  
p.A407P (0.0022%)  
p.R631G (0.0022%)  
p.R332Q (0.0022%)  
p.D64H (0.0022%)  
p.R752H (0.0022%)  
p.E178Q (0.0088%)  
p.E125Q (0.0088%)  
p.D200E (0.0088%)  
p.R170C (0.0066%)  
p.E951Q (0.0066%)  
p.T96S (0.0066%)  
p.R967H (0.0066%)  
p.G1140S (0.0066%)  
p.I25M (0.0044%)  
p.G526R (0.0044%)  
p.P582S (0.0044%)  
p.Q472E (0.0044%)  
p.I337M (0.0044%)  
p.D824H (0.0044%)  
p.V1045L (0.0044%)  
p.T54= (0.0044%)  
p.E234G (0.0044%)  
p.V574I (0.0044%)  
p.R555Pfs\*38 (0.0044%)  
p.R688Q (0.0044%)  
p.D380Y (0.0044%)  
p.C539\* (0.0044%)  
p.R1062T (0.0044%)  
p.A892E (0.0044%)  
p.T224N (0.0044%)  
p.W216\* (0.0044%)  
p.V26L (0.0044%)  
p.S964G (0.0044%)  
p.F1034= (0.0022%)  
p.A331D (0.0022%)  
p.S320N (0.0022%)  
p.D674V (0.0022%)  
p.T1020M (0.0022%)  
p.R555Gfs\*45 (0.0022%)  
p.Y208= (0.0022%)  
p.R157W (0.0022%)  
p.K133N (0.0022%)  
p.E946\* (0.0022%)  
p.D632N (0.0022%)  
p.L3= (0.0022%)  
p.Y45Tfs\*51 (0.0022%)  
p.E734Q (0.0022%)  
p.V1128I (0.0022%)  
p.R424Q (0.0022%)  
p.L941F (0.0022%)  
p.M417I (0.0022%)  
p.R260= (0.0022%)  
p.L152= (0.0022%)  
p.N781K (0.0022%)  
p.M166I (0.0022%)  
p.E388= (0.0022%)  
p.K310N (0.0022%)  
p.H384= (0.0022%)  
p.S678= (0.0022%)  
p.L164F (0.0022%)  
p.R707H (0.0022%)  
p.Q1018H (0.0022%)  
p.D35= (0.0022%)  
p.D674N (0.0022%)  
p.E151V (0.0022%)  
p.E334Q (0.0022%)  
p.E151K (0.0022%)  
p.K550N (0.0022%)  
p.Y101\* (0.0022%)  
p.T14M (0.0022%)  
p.A209T (0.0022%)  
p.R720Q (0.0022%)  
p.D199= (0.0022%)  
p.S1006L (0.0022%)  
p.D590Y (0.0022%)  
p.Q237\* (0.0022%)  
p.C306S (0.011%)  
p.D1698= (0.011%)  
p.S1027L (0.0088%)  
p.S1856C (0.0088%)  
p.R892C (0.0088%)  
p.F357L (0.0088%)  
p.A1448V (0.0088%)  
p.P284= (0.0066%)  
p.V1578del (0.0066%)  
p.K645= (0.0066%)  
p.A2415V (0.0066%)  
p.P2514Rfs\*4 (0.0066%)  
p.T236M (0.0066%)  
p.T596M (0.0066%)  
p.Y891H (0.0066%)  
p.E1624Q (0.0066%)  
p.M1615I (0.0022%)  
p.F1259= (0.0044%)  
p.E2132K (0.0044%)  
p.Q1165K (0.0044%)  
p.A2415= (0.0044%)  
p.L1585P (0.0044%)  
p.L999W (0.0044%)  
p.S1651L (0.0044%)  
p.S2486Rfs\*103 (0.0044%)  
p.V2385M (0.0044%)  
p.Q2487L (0.0044%)  
p.G115= (0.0044%)  
p.P2462L (0.0044%)  
p.A2035= (0.0044%)  
p.V2443Tfs\*35 (0.0022%)  
p.A1173S (0.0044%)  
p.W1075R (0.0022%)  
p.E1929D (0.0044%)  
p.D1912N (0.0044%)  
p.A18T (0.0044%)  
p.N718S (0.0044%)  
p.S2467Pfs\*7 (0.0044%)  
p.V1721G (0.0044%)  
p.L2472Qfs\*5 (0.0044%)  
p.G1215D (0.0044%)  
p.L2273P (0.0044%)  
p.P1731L (0.0044%)  
p.C806R (0.0044%)  
p.S2205\* (0.0044%)  
p.I1527M (0.0022%)  
p.K951N (0.0022%)  
p.I1601M (0.0022%)  
p.L2178= (0.0022%)  
p.D599N (0.0022%)  
p.E2116Q (0.0022%)  
p.L978= (0.0022%)  
p.R1926C (0.0022%)  
p.R448\* (0.0022%)  
p.E1574\* (0.0022%)  
p.G1238D (0.0022%)  
p.G1238= (0.0022%)  
p.S851N (0.0022%)  
p.T1997= (0.0022%)  
p.N753T (0.0022%)  
p.R558Q (0.0022%)  
p.Q118R (0.0022%)  
p.N1940= (0.0022%)  
p.G1621D (0.0022%)  
p.L2376= (0.0022%)  
p.E1252K (0.0022%)  
p.L1559M (0.0022%)  
p.Q430H (0.0022%)  
p.A2463Pfs\*14 (0.0022%)  
p.Y2047N (0.0022%)  
p.D1756H (0.0022%)  
p.S437L (0.0022%)  
p.V1599M (0.0022%)  
p.A2036V (0.0022%)  
p.G777E (0.0022%)  
p.G639E (0.0022%)  
p.T1897M (0.0022%)  
p.Q357H (0.0022%)  
p.A1643T (0.0022%)  
p.S1062F (0.0022%)  
p.V1562= (0.0022%)  
p.H2107D (0.0022%)  
p.E2534G (0.0022%)  
p.P761H (0.0022%)  
p.P1191H (0.0022%)  
p.L1526= (0.0022%)  
p.A1125V (0.0022%)  
p.S1708L (0.0022%)  
p.Q2233H (0.0022%)  
p.G1071S (0.0022%)  
p.L734P (0.0022%)  
p.L501= (0.0022%)  
p.G1544R (0.0022%)  
p.T887I (0.0022%)  
p.D808N (0.0022%)  
p.F538Y (0.0022%)  
p.R1878K (0.0022%)  
p.E2146\* (0.0022%)  
p.N463Kfs\*168 (0.0022%)  
p.C777\* (0.0022%)  
p.Q1495\* (0.0022%)  
p.C1255W (0.0022%)  
p.G2430Afs\*5 (0.0022%)  
p.E483\* (0.0022%)  
p.P2525= (0.0022%)  
p.D2185= (0.0022%)  
p.V1324L (0.0022%)  
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p.G1177R (0.0022%)  
p.R2327G (0.0022%)  
p.S2289I (0.0022%)  
p.S647\_P649del (0.0022%)  
p.Q1282Rfs\*163 (0.0022%)  
p.P1086R (0.0022%)  
p.G546Rfs\*24 (0.0022%)  
p.S1754L (0.0022%)  
p.S2523L (0.0022%)  
p.S2492L (0.0022%)  
p.H2428Pfs\*7 (0.0022%)  
p.L2429R (0.0022%)  
p.P2484Tfs\*23 (0.0022%)  
p.L2429M (0.0022%)  
p.A112Gfs\*2 (0.0022%)  
p.C416W (0.0022%)  
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p.R323H (0.0022%)  
p.A929G (0.0022%)  
p.Q1957\* (0.0022%)  
p.T123M (0.0022%)  
p.F780Sfs\*6 (0.0022%)  
p.L2176F (0.0022%)  
p.G1376S (0.0022%)  
p.M2318X\*34 (0.0022%)  
p.E1901K (0.0022%)  
p.T1573M (0.0022%)  
p.G2420Afs\*2 (0.0022%)  
p.R504H (0.0022%)  
p.N1713D (0.0022%)  
p.H2428fs\*3 (0.0022%)  
p.P2458S (0.0022%)  
p.A1160T (0.0022%)  
p.E383= (0.0022%)  
p.L1706I (0.0022%)  
p.L1600P (0.0022%)  
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p.A2441Efs\*39 (0.0022%)  
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p.G2420Pfs\*10 (0.0022%)  
p.S2467Rfs\*10 (0.0022%)  
p.R2431W (0.0022%)  
p.C312\* (0.0022%)  
p.D1808Y (0.0022%)  
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p.G1136V (0.0022%)  
p.T2466Sfs\*11 (0.0022%)  
p.G1558V (0.0022%)  
p.A2463Xfs\*14 (0.0022%)  
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p.A1742= (0.0022%)  
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p.R2159H (0.0022%)  
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p.P453= (0.0044%)  
p.Q421= (0.0022%)  
p.M315I (0.0022%)  
p.A145= (0.0022%)  
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p.R479Q (0.0088%)  
p.D591N (0.0066%)  
p.R465H (0.0066%)  
p.D258H (0.0066%)  
p.E115\* (0.0066%)  
p.S86L (0.0044%)  
p.E49\* (0.0022%)  
p.E177Q (0.0044%)  
p.Q306K (0.0044%)  
p.M268I (0.0044%)  
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p.R505C (0.0044%)  
p.Q277E (0.0044%)  
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p.C533F (0.0044%)  
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p.Q508\* (0.0044%)  
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p.R505H (0.0044%)  
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p.H379Y (0.0044%)  
p.H460R (0.0044%)  
p.R393\* (0.0044%)  
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p.Q242\* (0.0022%)  
p.T482A (0.0022%)  
p.G477S (0.0022%)  
p.R309Afs\*33 (0.0022%)  
p.D642G (0.0022%)  
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p.G9Afs\*11 (0.0022%)  
p.R479L (0.0022%)  
p.F549fs\*6 (0.0022%)  
p.Q95R (0.0022%)  
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p.A442D (0.0022%)  
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p.N503H (0.0022%)  
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p.K671= (0.0022%)  
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p.A482V (0.0022%)  
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p.G546= (0.0022%)  
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p.D1550Y (0.0088%)  
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p.Q2086\* (0.0022%)  
p.S833= (0.0022%)  
p.C1309\* (0.0022%)  
p.T295R (0.0022%)  
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p.K2145= (0.0022%)  
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p.E1072= (0.0022%)  
p.A677T (0.0022%)  
p.L1460\* (0.0022%)  
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p.V401G (0.0022%)  
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p.K1514= (0.0022%)  
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p.R596G (0.0022%)  
p.I267M (0.0022%)  
p.E729K (0.0022%)  
p.V198= (0.0022%)  
p.Q60\* (0.0022%)  
p.K1006= (0.0022%)  
p.S2062T (0.0022%)  
p.R688L (0.0022%)  
p.E1104del (0.0022%)  
p.L685F (0.0022%)  
p.G1376= (0.0022%)  
p.E1076del (0.0022%)  
p.R151Q (0.0022%)  
p.S616L (0.0022%)  
p.S397I (0.0022%)  
p.D359N (0.0022%)  
p.R328K (0.0022%)  
p.Y462H (0.0022%)  
p.R1135C (0.0022%)  
p.Q602\* (0.0088%)  
p.S167= (0.0066%)  
p.R577W (0.0044%)  
p.P714= (0.0044%)  
p.T946I (0.0044%)  
p.A878D (0.0044%)  
p.A73S (0.0044%)  
p.S151= (0.0044%)  
p.L222= (0.0022%)  
p.H197N (0.0022%)  
p.E1023Q (0.0022%)  
p.V987G (0.0022%)  
p.R754S (0.0022%)  
p.S305\* (0.0022%)  
p.N425= (0.0022%)  
p.S232F (0.0022%)  
p.E1016K (0.0022%)  
p.S440R (0.0022%)  
p.E512Q (0.0022%)  
p.E324= (0.0022%)  
p.S155= (0.0022%)  
p.I823= (0.0022%)  
p.P858A (0.0022%)  
p.P60S (0.0022%)  
p.E1023K (0.0022%)  
p.S738Y (0.0022%)  
p.D253N (0.0022%)  
p.M188I (0.0022%)  
p.R853S (0.0022%)  
p.P108= (0.0022%)  
p.I774M (0.0022%)  
p.T62= (0.0022%)  
p.H284Y (0.0286%)  
p.Y226C (0.0154%)  
p.F228S (0.0088%)  
p.H288Y (0.0088%)  
p.V50L (0.0088%)  
p.F351L (0.0066%)  
p.T204Nfs\*26 (0.0044%)  
p.G261S (0.0066%)  
p.V51Gfs\*27 (0.0066%)  
p.R377C (0.0066%)  
p.P640S (0.0066%)  
p.S354F (0.0022%)  
p.V475= (0.0022%)  
p.H284Q (0.0022%)  
p.E104K (0.0044%)  
p.R342C (0.0044%)  
p.H312D (0.0044%)  
p.Q42Rfs\*20 (0.0044%)  
p.R292G (0.0044%)  
p.E376K (0.0044%)  
p.H288R (0.0044%)  
p.P121= (0.0044%)  
p.F550= (0.0044%)  
p.R479H (0.0044%)  
p.H288D (0.0044%)  
p.Y197\* (0.0044%)  
p.E2V (0.0044%)  
p.H477Y (0.0044%)  
p.D91\* (0.0022%)  
p.G714\* (0.0022%)  
p.E682K (0.0022%)  
p.T204Qfs\*18 (0.0022%)  
p.Y386C (0.0022%)  
p.E687K (0.0022%)  
p.D581G (0.0022%)  
p.A387V (0.0022%)  
p.E432\* (0.0022%)  
p.R320S (0.0022%)  
p.Q106P (0.0022%)  
p.T563= (0.0022%)  
p.K205Efs\*24 (0.0022%)  
p.D443H (0.0022%)  
p.E34= (0.0022%)  
p.W191\* (0.0022%)  
p.H284P (0.0022%)  
p.K286\_S287delinsN (0.0022%)  
p.S224F (0.0022%)  
p.C271\_S272insKLHVSTAFKFGSSHE (0.0022%)  
p.R304S (0.0022%)  
p.T24Lfs\*38 (0.0022%)  
p.H284R (0.0022%)  
p.R283H (0.0022%)  
p.Y25Lfs\*38 (0.0022%)  
p.K258E (0.0022%)  
p.D443N (0.0022%)  
p.S272del (0.0022%)  
p.P276R (0.0022%)  
p.E625\* (0.0022%)  
p.Q44K (0.0022%)  
p.E49Rfs\*13 (0.0022%)  
p.R368H (0.0022%)  
p.P696Qfs\*24 (0.0022%)  
p.E584Q (0.0022%)  
p.E21\* (0.0022%)  
p.R377H (0.0022%)  
p.E35A (0.0022%)  
p.C38Afs\*24 (0.0022%)  
p.Y523D (0.0022%)  
p.K20R (0.0022%)  
p.H284N (0.0022%)  
p.E234D (0.0022%)  
p.T204fs\*26 (0.0022%)  
p.D539Rfs\*21 (0.0022%)  
p.C268Y (0.0022%)  
p.V50Gfs\*28 (0.0022%)  
p.L309fs\*? (0.0022%)  
p.K365R (0.0022%)  
p.Y25Ffs\*38 (0.0022%)  
p.R389S (0.0022%)  
p.G261A (0.0022%)  
p.P378A (0.0022%)  
p.H345P (0.0022%)  
p.R371P (0.0022%)  
p.Q232E (0.0022%)  
p.Q42\* (0.0022%)  
p.C557S (0.0022%)  
p.E176\* (0.0022%)  
p.M249\_P252delinsI (0.0022%)  
p.V630I (0.0022%)  
p.R457\* (0.0022%)  
p.K605\* (0.0022%)  
p.K23Lfs\*38 (0.0022%)  
p.K344E (0.0022%)  
p.R277P (0.0022%)  
p.K700E (0.1872%)  
p.E622Q (0.0088%)  
p.R625C (0.0044%)  
p.E64K (0.0066%)  
p.K80N (0.0066%)  
p.L353= (0.0044%)  
p.D65N (0.0044%)  
p.K729N (0.0044%)  
p.K666Q (0.0044%)  
p.K741N (0.0044%)  
p.T935K (0.0044%)  
p.Y623H (0.0044%)  
p.G83= (0.0044%)  
p.Q19E (0.0044%)  
p.N626D (0.0044%)  
p.R625L (0.0044%)  
p.E106= (0.0022%)  
p.L464F (0.0022%)  
p.Q699= (0.0022%)  
p.E809Dfs\*7 (0.0022%)  
p.N1289= (0.0022%)  
p.D272H (0.0022%)  
p.K666E (0.0022%)  
p.K666N (0.0022%)  
p.G330E (0.0022%)  
p.S541F (0.0022%)  
p.R512I (0.0022%)  
p.E802Q (0.0022%)  
p.G241\* (0.0022%)  
p.T142= (0.0022%)  
p.V1219= (0.0022%)  
p.L467I (0.0022%)  
p.Q931E (0.0022%)  
p.Q670Q (0.0022%)  
p.R1019Tfs\*10 (0.0022%)  
p.S1150Ifs\*7 (0.0022%)  
p.L674P (0.0022%)  
p.G271D (0.0022%)  
p.A633V (0.0022%)  
p.Q931H (0.0022%)  
p.A1052Kfs\*9 (0.0022%)  
p.K666R (0.0022%)  
p.Q949Nfs\*6 (0.0022%)  
p.Y1136\* (0.0022%)  
p.Y587D (0.0022%)  
p.G676Afs\*11 (0.0022%)  
p.D781E (0.0022%)  
p.V184I (0.0022%)  
p.D393Y (0.0022%)  
p.K1102I (0.0022%)  
p.R625G (0.0022%)  
p.E300Q (0.0022%)  
p.I690T (0.0022%)  
p.R594Q (0.0022%)  
p.G742D (0.0022%)  
p.E776D (0.0022%)  
p.R625H (0.0022%)  
p.A744P (0.0022%)  
p.A419P (0.0022%)  
p.S643C (0.0022%)  
p.D584N (0.0022%)  
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p.E622D (0.0022%)  
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p.Q534P (0.0022%)  
p.P72L (0.0066%)  
p.K16del (0.0066%)  
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p.A471V (0.0022%)  
p.I185M (0.0044%)  
p.L529F (0.0044%)  
p.K192= (0.0044%)  
p.Q166E (0.0044%)  
p.I189F (0.0044%)  
p.V179L (0.0044%)  
p.A258S (0.0044%)  
p.A366E (0.0044%)  
p.Q119P (0.0044%)  
p.S527A (0.0044%)  
p.R234Q (0.0044%)  
p.R358Q (0.0022%)  
p.S345F (0.0022%)  
p.A366S (0.0022%)  
p.A451V (0.0022%)  
p.G416D (0.0022%)  
p.V323I (0.0022%)  
p.I189N (0.0022%)  
p.S345Y (0.0022%)  
p.V340A (0.0022%)  
p.G242\* (0.0022%)  
p.P450= (0.0022%)  
p.E158Q (0.0022%)  
p.D149N (0.0022%)  
p.R87\_D90delinsN (0.0022%)  
p.E24D (0.0022%)  
p.R513W (0.0022%)  
p.H316L (0.0022%)  
p.I469T (0.0022%)  
p.R147C (0.0022%)  
p.P168H (0.0088%)  
p.G921S (0.0088%)  
p.R588Kfs\*8 (0.0088%)  
p.D194N (0.0088%)  
p.E66Q (0.0066%)  
p.D976N (0.0066%)  
p.E362K (0.0066%)  
p.E339K (0.0066%)  
p.I166T (0.0044%)  
p.C549Y (0.0066%)  
p.A428V (0.0066%)  
p.A553T (0.0022%)  
p.E1052\* (0.0044%)  
p.K468Sfs\*23 (0.0044%)  
p.L830= (0.0044%)  
p.R1113H (0.0044%)  
p.A562S (0.0044%)  
p.P98= (0.0044%)  
p.P143S (0.0044%)  
p.P28= (0.0044%)  
p.E818K (0.0044%)  
p.Y44\* (0.0044%)  
p.K261M (0.0044%)  
p.D840H (0.0044%)  
p.P500= (0.0044%)  
p.L480P (0.0044%)  
p.G993\* (0.0044%)  
p.C29S (0.0044%)  
p.P101S (0.0044%)  
p.H347L (0.0044%)  
p.Q760E (0.0044%)  
p.E29del (0.0044%)  
p.T267I (0.0044%)  
p.R1122Q (0.0044%)  
p.Q297\* (0.0044%)  
p.R707Q (0.0044%)  
p.S122\* (0.0044%)  
p.V224I (0.0044%)  
p.H478Qfs\*34 (0.0044%)  
p.P483T (0.0022%)  
p.H163= (0.0022%)  
p.I661= (0.0022%)  
p.F221C (0.0022%)  
p.D908V (0.0022%)  
p.E107K (0.0022%)  
p.W737C (0.0022%)  
p.Y466S (0.0022%)  
p.R133P (0.0022%)  
p.I654V (0.0022%)  
p.Y337C (0.0022%)  
p.F547L (0.0022%)  
p.C75F (0.0022%)  
p.R138P (0.0022%)  
p.L512= (0.0022%)  
p.R80K (0.0022%)  
p.H410N (0.0022%)  
p.L55P (0.0022%)  
p.I77= (0.0022%)  
p.E247K (0.0022%)  
p.K630N (0.0022%)  
p.E846Q (0.0022%)  
p.C318= (0.0022%)  
p.Y132\* (0.0022%)  
p.P99L (0.0022%)  
p.F211L (0.0022%)  
p.A140V (0.0022%)  
p.P52T (0.0022%)  
p.R115I (0.0022%)  
p.T496P (0.0022%)  
p.G552= (0.0022%)  
p.E90\* (0.0022%)  
p.A139= (0.0022%)  
p.Y940Lfs\*6 (0.0022%)  
p.L267F (0.0022%)  
p.K346N (0.0022%)  
p.Q40\* (0.0022%)  
p.L580\_L583del (0.0022%)  
p.L318F (0.0022%)  
p.I698M (0.0022%)  
p.V615L (0.0022%)  
p.V162L (0.0022%)  
p.A419T (0.0022%)  
p.R799Mfs\*2 (0.0022%)  
p.F694= (0.0022%)  
p.L261R (0.0022%)  
p.K1005Nfs\*5 (0.0022%)  
p.D489Tfs\*3 (0.0022%)  
p.L707Ffs\*24 (0.0022%)  
p.R404Q (0.0022%)  
p.R310S (0.0022%)  
p.E24\* (0.0022%)  
p.G1132E (0.0022%)  
p.E846D (0.0022%)  
p.I323V (0.0022%)  
p.P429= (0.0022%)  
p.L594Vfs\*14 (0.0022%)  
p.Q311H (0.0022%)  
p.P495R (0.0022%)  
p.D894G (0.0022%)  
p.L535= (0.0022%)  
p.K253Sfs\*4 (0.0022%)  
p.P300L (0.0022%)  
p.N646Ifs\*19 (0.0022%)  
p.N186Ifs\*40 (0.0022%)  
p.G48E (0.0022%)  
p.D505Rfs\*2 (0.0022%)  
p.P773S (0.0022%)  
p.A457D (0.0022%)  
p.R465K (0.0022%)  
p.E334Rfs\*9 (0.0022%)  
p.H351D (0.0022%)  
p.H311Y (0.0022%)  
p.V80= (0.0022%)  
p.R938Q (0.0022%)  
p.I470M (0.0022%)  
p.E864Rfs\*18 (0.0022%)  
p.R1122P (0.0022%)  
p.H134R (0.0022%)  
p.S608F (0.0044%)  
p.V132= (0.0044%)  
p.P304T (0.0066%)  
p.S174L (0.0066%)  
p.K756T (0.0066%)  
p.T1463Nfs\*50 (0.0066%)  
p.P707A (0.0022%)  
p.S228C (0.0022%)  
p.S24\* (0.0044%)  
p.S1191L (0.0044%)  
p.S590L (0.0044%)  
p.D1100N (0.0044%)  
p.R377Q (0.0044%)  
p.E985Q (0.0044%)  
p.R329L (0.0044%)  
p.R219K (0.0044%)  
p.D235Y (0.0044%)  
p.R300T (0.0044%)  
p.D214N (0.0044%)  
p.D245N (0.0044%)  
p.L55F (0.0044%)  
p.E135K (0.0044%)  
p.S320Rfs\*31 (0.0044%)  
p.D306= (0.0044%)  
p.P549S (0.0044%)  
p.I184N (0.0044%)  
p.P1256L (0.0044%)  
p.A322T (0.0044%)  
p.S170\_S192del (0.0044%)  
p.V26G (0.0044%)  
p.V132I (0.0044%)  
p.W719\* (0.0044%)  
p.L926I (0.0022%)  
p.M1146L (0.0022%)  
p.E121Q (0.0022%)  
p.G720= (0.0022%)  
p.S1379C (0.0022%)  
p.P1245H (0.0022%)  
p.E5D (0.0022%)  
p.S487C (0.0022%)  
p.C952Y (0.0022%)  
p.P146= (0.0022%)  
p.K41T (0.0022%)  
p.R104Q (0.0022%)  
p.F110L (0.0022%)  
p.T310= (0.0022%)  
p.E1041Q (0.0022%)  
p.A1199= (0.0022%)  
p.R902P (0.0022%)  
p.D1342N (0.0022%)  
p.S265L (0.0022%)  
p.F27Lfs\*2 (0.0022%)  
p.Y72C (0.0022%)  
p.R112C (0.0022%)  
p.S569C (0.0022%)  
p.M840I (0.0022%)  
p.N939S (0.0022%)  
p.G1485R (0.0022%)  
p.T794K (0.0022%)  
p.Y901\* (0.0022%)  
p.Q1216\* (0.0022%)  
p.E59\* (0.0022%)  
p.V1094L (0.0022%)  
p.L21Afs\*10 (0.0022%)  
p.I301= (0.0022%)  
p.R104= (0.0022%)  
p.S86Y (0.0022%)  
p.M353I (0.0022%)  
p.V1282F (0.0022%)  
p.P294S (0.0022%)  
p.E488\* (0.0022%)  
p.I964= (0.0022%)  
p.S256W (0.0022%)  
p.P1091L (0.0022%)  
p.Q1088L (0.0022%)  
p.Q1113\* (0.0022%)  
p.P1144S (0.0022%)  
p.E405Sfs\*23 (0.0022%)  
p.A876= (0.0022%)  
p.E1024K (0.0022%)  
p.D1022A (0.0022%)  
p.G290R (0.0022%)  
p.F89V (0.0022%)  
p.E888G (0.0022%)  
p.Y1328N (0.0022%)  
p.P553S (0.0022%)  
p.D86N (0.0022%)  
p.H1432L (0.0022%)  
p.I964M (0.0022%)  
p.C64Vfs\*19 (0.0022%)  
p.N136D (0.0022%)  
p.E461Q (0.011%)  
p.E452Q (0.011%)  
p.D297N (0.0088%)  
p.E712K (0.0066%)  
p.S903L (0.0066%)  
p.S111= (0.0044%)  
p.F853L (0.0044%)  
p.P893S (0.0044%)  
p.I455T (0.0044%)  
p.E561Q (0.0044%)  
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p.I57M (0.0044%)  
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p.E202K (0.0022%)  
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p.I384= (0.0022%)  
p.D152N (0.0022%)  
p.E108= (0.0022%)  
p.E933K (0.0022%)  
p.T776M (0.0022%)  
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p.M233I (0.0022%)  
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p.G112E (0.0022%)  
p.T70M (0.0022%)  
p.E452K (0.0022%)  
p.P373S (0.0022%)  
p.D380N (0.0022%)  
p.T701I (0.0022%)  
p.P746Tfs\*4 (0.0022%)  
p.T776R (0.0022%)  
p.E44\_L56del (0.0022%)  
p.S695I (0.0022%)  
p.T892M (0.0022%)  
p.T70S (0.0022%)  
p.E777K (0.0022%)  
p.E780\* (0.0022%)  
p.P618S (0.0022%)  
p.I745R (0.0022%)  
p.Q240\* (0.0022%)  
p.E555Kfs\*52 (0.0022%)  
p.A181= (0.0022%)  
p.D91N (0.0022%)  
p.Q5\* (0.0022%)  
p.E6Gfs\*3 (0.0022%)  
p.S176Wfs\*26 (0.0022%)  
p.G693S (0.0022%)  
p.C838Y (0.0022%)  
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p.S102R (0.0022%)  
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p.S649P (0.0022%)  
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p.D865G (0.0022%)  
p.F120I (0.0022%)  
p.Y961\* (0.0022%)  
p.A676T (0.0022%)  
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p.M2133I (0.0044%)  
p.S1146F (0.0044%)  
p.S1100Y (0.0044%)  
p.Q767\* (0.0044%)  
p.S535L (0.0044%)  
p.A536= (0.0044%)  
p.E1147K (0.0044%)  
p.M480I (0.0044%)  
p.R202\* (0.0022%)  
p.Q2141H (0.0044%)  
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p.E1320D (0.0044%)  
p.G518A (0.0044%)  
p.R754C (0.0044%)  
p.Q813\* (0.0044%)  
p.P10R (0.0044%)  
p.E1263\* (0.0044%)  
p.E333Q (0.0044%)  
p.R1076S (0.0044%)  
p.T1101Yfs\*3 (0.0044%)  
p.N1700Tfs\*9 (0.0022%)  
p.Q341\* (0.0044%)  
p.M154I (0.0044%)  
p.D1004H (0.0044%)  
p.S1730Y (0.0044%)  
p.L587= (0.0022%)  
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p.P1387= (0.0022%)  
p.P1916= (0.0022%)  
p.R1410W (0.0022%)  
p.M1470Cfs\*26 (0.0022%)  
p.I1952V (0.0022%)  
p.E1536D (0.0022%)  
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p.G297E (0.0022%)  
p.S2095F (0.0022%)  
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p.I637M (0.0022%)  
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p.S697N (0.0022%)  
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p.S2389= (0.0022%)  
p.S2008F (0.0022%)  
p.S1897F (0.0022%)  
p.S20= (0.0022%)  
p.V6= (0.0022%)  
p.R353H (0.0022%)  
p.K1551N (0.0022%)  
p.P2380A (0.0022%)  
p.S1730F (0.0022%)  
p.L117F (0.0022%)  
p.H1451P (0.0022%)  
p.R86\* (0.0022%)  
p.R1356\* (0.0022%)  
p.P2367= (0.0022%)  
p.P1875S (0.0022%)  
p.S1400G (0.0022%)  
p.I2038M (0.0022%)  
p.S2374F (0.0022%)  
p.I2085M (0.0022%)  
p.S2095C (0.0022%)  
p.M2359R (0.0022%)  
p.R1462\* (0.0022%)  
p.M2189I (0.0022%)  
p.A327V (0.0022%)  
p.L1639= (0.0022%)  
p.L1631F (0.0022%)  
p.Y1141\* (0.0022%)  
p.Q259\* (0.0022%)  
p.N1126S (0.0022%)  
p.S833L (0.0022%)  
p.R1281Q (0.0022%)  
p.Q501Rfs\*12 (0.0022%)  
p.R1478H (0.0022%)  
p.I706D (0.0022%)  
p.P689T (0.0022%)  
p.K1050Qfs\*39 (0.0022%)  
p.M1339Ifs\*2 (0.0022%)  
p.P2277L (0.0022%)  
p.E646Q (0.0022%)  
p.(C1408\_R1410)insXXXXXX (0.0022%)  
p.E1013G (0.0022%)  
p.L827P (0.0022%)  
p.L226I (0.0066%)  
p.L96= (0.0066%)  
p.C822= (0.0044%)  
p.L66V (0.0022%)  
p.E1040Q (0.0044%)  
p.K1455N (0.0044%)  
p.P908L (0.0044%)  
p.Q162= (0.0044%)  
p.A1212V (0.0044%)  
p.S114L (0.0044%)  
p.Q1332L (0.0044%)  
p.I987M (0.0044%)  
p.I1678M (0.0044%)  
p.L1330= (0.0022%)  
p.A1846= (0.0022%)  
p.V996= (0.0022%)  
p.F866= (0.0022%)  
p.S681F (0.0022%)  
p.D369H (0.0022%)  
p.E388Q (0.0022%)  
p.Q521R (0.0022%)  
p.K159I (0.0022%)  
p.R211G (0.0022%)  
p.V337\_I342del (0.0022%)  
p.Q869= (0.0022%)  
p.Q1901H (0.0022%)  
p.V69G (0.0022%)  
p.S6Y (0.0022%)  
p.D1091N (0.0022%)  
p.R1049Q (0.0022%)  
p.K924= (0.0022%)  
p.K145= (0.0022%)  
p.R1309T (0.0022%)  
p.L1347= (0.0022%)  
p.K596N (0.0022%)  
p.E471K (0.0022%)  
p.L1376= (0.0022%)  
p.R1675K (0.0022%)  
p.A739= (0.0022%)  
p.E1557\_E1559del (0.0022%)  
p.V367I (0.0022%)  
p.C286G (0.0022%)  
p.P285H (0.0022%)  
p.A620V (0.0022%)  
p.W973\* (0.0022%)  
p.Q1077= (0.0022%)  
p.G719V (0.0022%)  
p.F13= (0.0022%)  
p.T400N (0.0022%)  
p.P1416L (0.0022%)  
p.E991Q (0.0022%)  
p.A551D (0.0022%)  
p.I210= (0.0022%)  
p.G1176D (0.0022%)  
p.Q162H (0.0022%)  
p.Q362= (0.0022%)  
p.I1955T (0.0022%)  
p.E553G (0.0022%)  
p.S188\* (0.0022%)  
p.S96L (0.0022%)  
p.T158= (0.0022%)  
p.S88L (0.0022%)  
p.I161= (0.0022%)  
p.C546R (0.0022%)  
p.E46Q (0.0022%)  
p.G806D (0.0022%)  
p.P380L (0.0022%)  
p.S1376F (0.0022%)  
p.I1078= (0.0022%)  
p.Q684= (0.0022%)  
p.S709T (0.0022%)  
p.L1123M (0.0022%)  
p.R1008\* (0.0022%)  
p.E1298Q (0.0022%)  
p.I1373M (0.0022%)  
p.R764H (0.0022%)  
p.M642I (0.0022%)  
p.Q398K (0.0022%)  
p.H323N (0.0022%)  
p.P1396= (0.0022%)  
p.D624A (0.0022%)  
p.E1467A (0.0022%)  
p.R1154Q (0.0022%)  
p.S482P (0.0022%)  
p.N238S (0.011%)  
p.V422I (0.0044%)  
p.V237= (0.0022%)  
p.D288H (0.0022%)  
p.R39C (0.0022%)  
p.S194R (0.0022%)  
p.L137= (0.0022%)  
p.S813L (0.011%)  
p.R1192H (0.011%)  
p.E566Q (0.0088%)  
p.Q300\* (0.0088%)  
p.T910M (0.0088%)  
p.R1618Q (0.0066%)  
p.R208W (0.0066%)  
p.N1457S (0.0066%)  
p.R539C (0.0066%)  
p.S1079= (0.0044%)  
p.Q675\* (0.0022%)  
p.Q1537H (0.0044%)  
p.S141P (0.0044%)  
p.E669= (0.0044%)  
p.S1475R (0.0044%)  
p.K517del (0.0044%)  
p.V880Gfs\*64 (0.0044%)  
p.Y820\* (0.0044%)  
p.R1608W (0.0044%)  
p.E371\* (0.0044%)  
p.R1431H (0.0044%)  
p.R1333W (0.0044%)  
p.T858M (0.0044%)  
p.Y1118F (0.0044%)  
p.A723Pfs\*51 (0.0044%)  
p.A314T (0.0044%)  
p.H1097Q (0.0022%)  
p.E1394\* (0.0022%)  
p.G271E (0.0022%)  
p.K689del (0.0022%)  
p.R885C (0.0022%)  
p.R1043W (0.0022%)  
p.F1142L (0.0022%)  
p.T814K (0.0022%)  
p.E821K (0.0022%)  
p.S1640\* (0.0022%)  
p.I864M (0.0022%)  
p.D1568N (0.0022%)  
p.G10E (0.0022%)  
p.R1189Q (0.0022%)  
p.R885H (0.0022%)  
p.E1579\* (0.0022%)  
p.R1613Q (0.0022%)  
p.A1158T (0.0022%)  
p.F975= (0.0022%)  
p.L180F (0.0022%)  
p.D694N (0.0022%)  
p.G782V (0.0022%)  
p.D1257\* (0.0022%)  
p.E1258\* (0.0022%)  
p.L754= (0.0022%)  
p.P1447R (0.0022%)  
p.A157= (0.0022%)  
p.G271Rfs\*16 (0.0022%)  
p.P109= (0.0022%)  
p.R1157W (0.0022%)  
p.R351C (0.0022%)  
p.L1247= (0.0022%)  
p.P1446= (0.0022%)  
p.E1633\* (0.0022%)  
p.S828= (0.0022%)  
p.D1638H (0.0022%)  
p.P265A (0.0022%)  
p.P616L (0.0022%)  
p.I620= (0.0022%)  
p.D1607Tfs\*3 (0.0022%)  
p.D1607Efs\*32 (0.0022%)  
p.A819T (0.0022%)  
p.G243S (0.0022%)  
p.S85L (0.0022%)  
p.P1297L (0.0022%)  
p.R1243P (0.0022%)  
p.F1102L (0.0022%)  
p.E882K (0.0022%)  
p.D1607N (0.0022%)  
p.G256\* (0.0022%)  
p.D1299N (0.0022%)  
p.E1144K (0.0022%)  
p.D716Xfs\*58 (0.0022%)  
p.P197S (0.0022%)  
p.Q544\* (0.0022%)  
p.E571K (0.0176%)  
p.P864S (0.011%)  
p.R383H (0.0088%)  
p.V824= (0.0044%)  
p.I188M (0.0088%)  
p.D681G (0.0066%)  
p.T440M (0.0066%)  
p.E289K (0.0066%)  
p.G17V (0.0066%)  
p.A127V (0.0066%)  
p.T281= (0.0022%)  
p.R822H (0.0044%)  
p.E229K (0.0044%)  
p.S427L (0.0044%)  
p.D366H (0.0044%)  
p.V546I (0.0044%)  
p.E368G (0.0044%)  
p.I258M (0.0044%)  
p.I264M (0.0044%)  
p.D784H (0.0044%)  
p.D919E (0.0044%)  
p.F1059V (0.0044%)  
p.L131I (0.0044%)  
p.V224M (0.0044%)  
p.I139= (0.0022%)  
p.D985N (0.0022%)  
p.I21F (0.0022%)  
p.C189R (0.0022%)  
p.R1011I (0.0022%)  
p.F238Lfs\*16 (0.0022%)  
p.E556K (0.0022%)  
p.D1075N (0.0022%)  
p.R822C (0.0022%)  
p.S851\* (0.0022%)  
p.G838C (0.0022%)  
p.A820V (0.0022%)  
p.G829R (0.0022%)  
p.L418= (0.0022%)  
p.R981P (0.0022%)  
p.T674I (0.0022%)  
p.S227L (0.0022%)  
p.S1042= (0.0022%)  
p.E807A (0.0022%)  
p.E279K (0.0022%)  
p.T274N (0.0022%)  
p.A820T (0.0022%)  
p.E699K (0.0022%)  
p.T181N (0.0022%)  
p.S348P (0.0022%)  
p.I989V (0.0022%)  
p.H104Tfs\*8 (0.0022%)  
p.V488M (0.0022%)  
p.S947Tfs\*24 (0.0022%)  
p.L31I (0.0022%)  
p.Y172F (0.0022%)  
p.T276M (0.0022%)  
p.A810T (0.0022%)  
p.D1071N (0.0022%)  
p.R487C (0.0022%)  
p.N659K (0.0022%)  
p.E924K (0.0022%)  
p.D869Efs\*7 (0.0022%)  
p.R340W (0.0022%)  
p.R981H (0.0022%)  
p.F178S (0.0022%)  
p.D714E (0.0022%)  
p.I1078Rfs\*41 (0.0022%)  
p.Y405\* (0.0022%)  
p.P6L (0.0022%)  
p.S404Kfs\*6 (0.0022%)  
p.E1085Kfs\*40 (0.0022%)  
p.T134M (0.0022%)  
p.R979H (0.0022%)  
p.E65G (0.0022%)  
p.V499M (0.0022%)  
p.V332= (0.0022%)  
p.P345S (0.0022%)  
p.E438\* (0.0022%)  
p.M773T (0.0022%)  
p.A280S (0.0022%)  
p.V824L (0.0022%)  
p.D842V (0.0022%)  
p.R759W (0.0022%)  
p.F736L (0.0022%)  
p.T453= (0.0044%)  
p.E230A (0.0044%)  
p.D318V (0.0044%)  
p.R774W (0.0044%)  
p.T193A (0.0022%)  
p.K326T (0.0022%)  
p.R889M (0.0022%)  
p.N679K (0.0022%)  
p.T55A (0.0022%)  
p.L170= (0.0022%)  
p.C265Y (0.0022%)  
p.P767S (0.0022%)  
p.E1155\* (0.0022%)  
p.G513D (0.0022%)  
p.G210R (0.0022%)  
p.E899K (0.0022%)  
p.R662W (0.0022%)  
p.E826Q (0.0022%)  
p.V1144I (0.0022%)  
p.S571\* (0.0022%)  
p.T124A (0.0022%)  
p.P941= (0.0022%)  
p.T74S (0.0022%)  
p.A113V (0.0022%)  
p.G150R (0.0022%)  
p.G865R (0.0022%)  
p.Y599= (0.0022%)  
p.K787= (0.0022%)  
p.K251= (0.0022%)  
p.N550K (0.0551%)  
p.K660N (0.0132%)  
p.S252W (0.0132%)  
p.M538I (0.0066%)  
p.P253R (0.0066%)  
p.K660E (0.0066%)  
p.A97\_G103del (0.0066%)  
p.V396= (0.0022%)  
p.M539I (0.0044%)  
p.D796N (0.0044%)  
p.S252L (0.0044%)  
p.A462V (0.0044%)  
p.V635A (0.0022%)  
p.R665W (0.0022%)  
p.P359R (0.0022%)  
p.C809W (0.0022%)  
p.E367Q (0.0022%)  
p.D796Y (0.0022%)  
p.D101Y (0.0022%)  
p.S703L (0.0022%)  
p.N550\_L551delinsKF (0.0022%)  
p.Q46E (0.0022%)  
p.H545Q (0.0022%)  
p.P801= (0.0022%)  
p.V464D (0.0022%)  
p.G818= (0.0022%)  
p.V122M (0.0022%)  
p.Y376C (0.0022%)  
p.S588C (0.0022%)  
p.S792F (0.0022%)  
p.C383Y (0.0022%)  
p.V113A (0.0022%)  
p.L262P (0.0022%)  
p.V633I (0.0022%)  
p.V396D (0.0022%)  
p.D472Y (0.0022%)  
p.T32A (0.0022%)  
p.S793\* (0.0022%)  
p.Y780\* (0.0022%)  
p.R203Pfs\*30 (0.0022%)  
p.N304T (0.011%)  
p.V194G (0.0088%)  
p.E624K (0.0066%)  
p.R512K (0.0044%)  
p.S383L (0.0044%)  
p.Q841P (0.0044%)  
p.P218T (0.0044%)  
p.R1160Q (0.0044%)  
p.G1451\* (0.0044%)  
p.I279Yfs\*4 (0.0044%)  
p.E863K (0.0044%)  
p.Y697\* (0.0044%)  
p.E905Q (0.0044%)  
p.R686Dfs\*9 (0.0044%)  
p.E354Q (0.0044%)  
p.E1226Q (0.0044%)  
p.K1328\* (0.0044%)  
p.V1012= (0.0022%)  
p.F116I (0.0022%)  
p.Y281N (0.0022%)  
p.N258Kfs\*6 (0.0022%)  
p.R324K (0.0022%)  
p.L886V (0.0022%)  
p.E1262K (0.0022%)  
p.D18= (0.0022%)  
p.M1432I (0.0022%)  
p.R394S (0.0022%)  
p.G1447R (0.0022%)  
p.E970Q (0.0022%)  
p.E1536K (0.0022%)  
p.Q432H (0.0022%)  
p.R1529C (0.0022%)  
p.I279= (0.0022%)  
p.A137T (0.0022%)  
p.R760Lfs\*8 (0.0022%)  
p.R760Sfs\*8 (0.0022%)  
p.A611= (0.0022%)  
p.I700= (0.0022%)  
p.N739= (0.0022%)  
p.A1164= (0.0022%)  
p.M586I (0.0022%)  
p.F546Y (0.0022%)  
p.I570V (0.0022%)  
p.Y409\* (0.0022%)  
p.N1025\_F1026delinsHV (0.0022%)  
p.R835Lfs\*20 (0.0022%)  
p.E863\* (0.0022%)  
p.G604D (0.0022%)  
p.K638R (0.0022%)  
p.L41I (0.0022%)  
p.T9= (0.0022%)  
p.A1526Sfs\*70 (0.0022%)  
p.P1118A (0.0022%)  
p.R512Kfs\*7 (0.0022%)  
p.L1007V (0.0022%)  
p.P227Lfs\*2 (0.0022%)  
p.K1322E (0.0022%)  
p.D446E (0.0022%)  
p.Q779\* (0.0022%)  
p.E387Q (0.0132%)  
p.G128R (0.0088%)  
p.N404= (0.0066%)  
p.E170D (0.0066%)  
p.D473N (0.0066%)  
p.D367E (0.0044%)  
p.L411H (0.0044%)  
p.R208L (0.0044%)  
p.P34= (0.0044%)  
p.M230L (0.0044%)  
p.N93H (0.0044%)  
p.C150Y (0.0044%)  
p.A268E (0.0044%)  
p.T291M (0.0044%)  
p.E465K (0.0044%)  
p.E465\* (0.0044%)  
p.E443D (0.0044%)  
p.A187T (0.0044%)  
p.S345I (0.0044%)  
p.R450H (0.0044%)  
p.Y435= (0.0022%)  
p.L37= (0.0022%)  
p.I164N (0.0022%)  
p.M518I (0.0022%)  
p.C178S (0.0022%)  
p.A441P (0.0022%)  
p.E387K (0.0022%)  
p.D86H (0.0022%)  
p.R222L (0.0022%)  
p.T400S (0.0022%)  
p.E112Q (0.0088%)  
p.E1076Q (0.0088%)  
p.G1974R (0.0022%)  
p.K937N (0.0044%)  
p.S974N (0.0044%)  
p.E1222K (0.0044%)  
p.S378L (0.0044%)  
p.L958= (0.0044%)  
p.E513K (0.0044%)  
p.S434C (0.0022%)  
p.K759N (0.0022%)  
p.L760F (0.0022%)  
p.M1931I (0.0022%)  
p.E1208K (0.0022%)  
p.P501H (0.0022%)  
p.E1289del (0.0022%)  
p.R44H (0.0022%)  
p.R329W (0.0022%)  
p.S1253F (0.0022%)  
p.D1547Y (0.0022%)  
p.P679A (0.0022%)  
p.S186F (0.0022%)  
p.K1342E (0.0022%)  
p.E226K (0.0022%)  
p.N574= (0.0022%)  
p.S1913F (0.0022%)  
p.R998W (0.0022%)  
p.F1711= (0.0022%)  
p.Y517C (0.0022%)  
p.H1439Rfs\*5 (0.0022%)  
p.D768H (0.0022%)  
p.A1892P (0.0022%)  
p.S1752I (0.0022%)  
p.D1303G (0.0022%)  
p.D930E (0.0022%)  
p.R735L (0.0022%)  
p.P1695= (0.0022%)  
p.P1693= (0.0022%)  
p.P1713S (0.0022%)  
p.S1585N (0.0022%)  
p.P1775L (0.0022%)  
p.S842T (0.0022%)  
p.E178K (0.0154%)  
p.D84G (0.011%)  
p.L460= (0.0022%)  
p.F395L (0.0066%)  
p.A30= (0.0044%)  
p.L323= (0.0044%)  
p.K73R (0.0044%)  
p.E62Q (0.0044%)  
p.R179G (0.0044%)  
p.D102N (0.0044%)  
p.P188= (0.0044%)  
p.S540N (0.0044%)  
p.R174Q (0.0044%)  
p.I89N (0.0044%)  
p.R220H (0.0044%)  
p.T156= (0.0022%)  
p.R555Q (0.0022%)  
p.F400= (0.0022%)  
p.T420P (0.0022%)  
p.R361W (0.0022%)  
p.S107\* (0.0022%)  
p.R302C (0.0022%)  
p.K429= (0.0022%)  
p.H489P (0.0022%)  
p.P118S (0.0022%)  
p.T13I (0.0022%)  
p.P238Qfs\*29 (0.0022%)  
p.G389= (0.0022%)  
p.R138Q (0.0022%)  
p.V200G (0.0022%)  
p.P367S (0.0022%)  
p.H139Q (0.0022%)  
p.I80F (0.0022%)  
p.A188V (0.0022%)  
p.S57P (0.0022%)  
p.I504T (0.0022%)  
p.V421I (0.0022%)  
p.H502Lfs\*12 (0.0022%)  
p.T88A (0.0022%)  
p.S332= (0.0022%)  
p.A415= (0.0022%)  
p.V263= (0.0022%)  
p.A20S (0.0022%)  
p.L202P (0.0022%)  
p.M291L (0.0022%)  
p.E63K (0.0022%)  
p.E754\* (0.011%)  
p.R604Pfs\*29 (0.0132%)  
p.D919N (0.011%)  
p.T254M (0.011%)  
p.N421H (0.0088%)  
p.E234Q (0.0088%)  
p.W1291C (0.0066%)  
p.N924T (0.0066%)  
p.E175K (0.0066%)  
p.S756P (0.0066%)  
p.G943V (0.0066%)  
p.E1051K (0.0066%)  
p.L591\_Q592del (0.0066%)  
p.S769L (0.0066%)  
p.P220A (0.0066%)  
p.I17F (0.0066%)  
p.F508= (0.0044%)  
p.L1265= (0.0044%)  
p.R217Q (0.0044%)  
p.S657C (0.0044%)  
p.R1366H (0.0022%)  
p.G1861R (0.0044%)  
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p.L331F (0.0044%)  
p.S463F (0.0044%)  
p.S756F (0.0044%)  
p.D905H (0.0044%)  
p.E497D (0.0044%)  
p.R83K (0.0044%)  
p.S781C (0.0044%)  
p.Q864K (0.0044%)  
p.D1412H (0.0044%)  
p.K1299E (0.0044%)  
p.A912V (0.0044%)  
p.L469= (0.0044%)  
p.L557F (0.0044%)  
p.F1004I (0.0044%)  
p.N1390I (0.0044%)  
p.N752Rfs\*59 (0.0044%)  
p.E576\* (0.0044%)  
p.R1452\* (0.0044%)  
p.Y1679H (0.0044%)  
p.S1486\* (0.0044%)  
p.I1140T (0.0044%)  
p.M600I (0.0044%)  
p.R153H (0.0044%)  
p.S714\* (0.0044%)  
p.N553S (0.0044%)  
p.T1069P (0.0044%)  
p.S391F (0.0044%)  
p.G1288V (0.0044%)  
p.K533Sfs\*6 (0.0044%)  
p.R995Q (0.0044%)  
p.D1067Y (0.0044%)  
p.V218M (0.0022%)  
p.R1069= (0.0022%)  
p.S1039= (0.0022%)  
p.A1048= (0.0022%)  
p.K751N (0.0022%)  
p.S124\* (0.0022%)  
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p.R1065Q (0.0022%)  
p.D587V (0.0022%)  
p.R48W (0.0022%)  
p.Q1040= (0.0022%)  
p.E1973= (0.0022%)  
p.Y78H (0.0022%)  
p.E1047K (0.0022%)  
p.E1250D (0.0022%)  
p.S1593N (0.0022%)  
p.G1370R (0.0022%)  
p.R1302I (0.0022%)  
p.I490M (0.0022%)  
p.P656S (0.0022%)  
p.L1694S (0.0022%)  
p.T105P (0.0022%)  
p.L426V (0.0022%)  
p.A730V (0.0022%)  
p.H248D (0.0022%)  
p.C425Y (0.0022%)  
p.D551V (0.0022%)  
p.L1240V (0.0022%)  
p.N811= (0.0022%)  
p.I331L (0.0022%)  
p.S716L (0.0022%)  
p.Q1603\* (0.0022%)  
p.L140W (0.0022%)  
p.R356= (0.0022%)  
p.R103K (0.0022%)  
p.L678F (0.0022%)  
p.R364C (0.0022%)  
p.E1014K (0.0022%)  
p.V257= (0.0022%)  
p.E470K (0.0022%)  
p.S912C (0.0022%)  
p.E1318Q (0.0022%)  
p.L412F (0.0022%)  
p.N1260S (0.0022%)  
p.S1369L (0.0022%)  
p.S102\_L103delinsF (0.0022%)  
p.L103= (0.0022%)  
p.E1470Q (0.0022%)  
p.A1865G (0.0022%)  
p.I304R (0.0022%)  
p.D1384H (0.0022%)  
p.L768F (0.0022%)  
p.R1467K (0.0022%)  
p.S59I (0.0022%)  
p.K1317E (0.0022%)  
p.R1516Q (0.0022%)  
p.P286S (0.0022%)  
p.H310R (0.0022%)  
p.L275P (0.0022%)  
p.E1352Q (0.0022%)  
p.W1003\* (0.0022%)  
p.L1120Xfs\*4 (0.0022%)  
p.H359Y (0.0022%)  
p.Q969K (0.0022%)  
p.H1817Q (0.0022%)  
p.N284K (0.0022%)  
p.C88= (0.0022%)  
p.S792\* (0.0022%)  
p.V645L (0.0022%)  
p.H1380Y (0.0022%)  
p.R814C (0.0022%)  
p.R1302S (0.0022%)  
p.N924Kfs\*14 (0.0022%)  
p.T1884del (0.0022%)  
p.T1066S (0.0022%)  
p.N792S (0.0022%)  
p.R847G (0.0022%)  
p.T1626I (0.0022%)  
p.F868L (0.0022%)  
p.S156= (0.0022%)  
p.S1449Y (0.0022%)  
p.R1261C (0.0022%)  
p.R136W (0.0022%)  
p.E961\_Q964del (0.0022%)  
p.E633K (0.0022%)  
p.E1851K (0.0022%)  
p.A277T (0.0022%)  
p.Q842\* (0.0066%)  
p.R46= (0.0044%)  
p.A122V (0.0066%)  
p.E629K (0.0066%)  
p.E756Q (0.0066%)  
p.R882H (0.0066%)  
p.E241K (0.0066%)  
p.R688H (0.0066%)  
p.P633H (0.0044%)  
p.E1552Q (0.0044%)  
p.R792Pfs\*10 (0.0044%)  
p.D876N (0.0044%)  
p.S166F (0.0044%)  
p.L639V (0.0044%)  
p.R882C (0.0044%)  
p.G334S (0.0044%)  
p.G270W (0.0044%)  
p.F731delins\* (0.0044%)  
p.P58L (0.0044%)  
p.E911D (0.0044%)  
p.L1605\* (0.0044%)  
p.R887K (0.0044%)  
p.L648P (0.0044%)  
p.Y735C (0.0044%)  
p.L422= (0.0022%)  
p.I910= (0.0022%)  
p.E1328\* (0.0022%)  
p.R1193T (0.0022%)  
p.E428Q (0.0022%)  
p.E342K (0.0022%)  
p.I655T (0.0022%)  
p.E117K (0.0022%)  
p.S663= (0.0022%)  
p.P256L (0.0022%)  
p.K361R (0.0022%)  
p.L1158= (0.0022%)  
p.T261M (0.0022%)  
p.L999= (0.0022%)  
p.V48G (0.0022%)  
p.W314G (0.0022%)  
p.G762= (0.0022%)  
p.F354V (0.0022%)  
p.E1181\* (0.0022%)  
p.L605= (0.0022%)  
p.V265M (0.0022%)  
p.S393= (0.0022%)  
p.L681= (0.0022%)  
p.L812= (0.0022%)  
p.P569= (0.0022%)  
p.M899I (0.0022%)  
p.R488L (0.0022%)  
p.R874Q (0.0022%)  
p.D1014H (0.0022%)  
p.D271N (0.0022%)  
p.L1385= (0.0022%)  
p.S714C (0.0022%)  
p.K217T (0.0022%)  
p.R1731H (0.0022%)  
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p.R167W (0.0022%)  
p.K1708E (0.0022%)  
p.R874W (0.0022%)  
p.E648K (0.0022%)  
p.E434Kfs\*217 (0.0022%)  
p.R379Pfs\*28 (0.0022%)  
p.A380Rfs\*27 (0.0022%)  
p.E1030K (0.0022%)  
p.E1121K (0.0022%)  
p.E426D (0.0022%)  
p.E408A (0.0022%)  
p.T275I (0.0022%)  
p.R278P (0.0022%)  
p.S1213\* (0.0022%)  
p.R813H (0.0022%)  
p.G890D (0.0022%)  
p.R1530= (0.0022%)  
p.E599K (0.0022%)  
p.Q742= (0.0022%)  
p.R635W (0.0022%)  
p.G543Afs\*108 (0.0022%)  
p.R1226H (0.0022%)  
p.R458Gfs\*193 (0.0022%)  
p.C911Y (0.0022%)  
p.R749C (0.0022%)  
p.A122T (0.0066%)  
p.S474C (0.0066%)  
p.S72= (0.0066%)  
p.E94K (0.0044%)  
p.N194K (0.0044%)  
p.T312= (0.0044%)  
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p.S276L (0.0022%)  
p.V892G (0.0022%)  
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p.N451Y (0.0022%)  
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p.I53= (0.0022%)  
p.H168D (0.0022%)  
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p.E427K (0.0022%)  
p.P20L (0.0022%)  
p.V542= (0.0022%)  
p.G592= (0.0022%)  
p.Q866\* (0.0022%)  
p.D73Y (0.0022%)  
p.A143= (0.0022%)  
p.A472= (0.0022%)  
p.L566V (0.0022%)  
p.K410= (0.0022%)  
p.P502H (0.0022%)  
p.F552L (0.0022%)  
p.N189= (0.0022%)  
p.T562N (0.0022%)  
p.A778= (0.0022%)  
p.Q350\* (0.0022%)  
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p.K664N (0.0022%)  
p.R478Q (0.0022%)  
p.D15G (0.0022%)  
p.S518C (0.0066%)  
p.T278N (0.0066%)  
p.A604D (0.0066%)  
p.M918T (0.0066%)  
p.S904= (0.0044%)  
p.E991\* (0.0044%)  
p.A654V (0.0044%)  
p.K716M (0.0044%)  
p.T488N (0.0044%)  
p.G828A (0.0044%)  
p.M868I (0.0044%)  
p.T636= (0.0044%)  
p.F195L (0.0044%)  
p.D842H (0.0044%)  
p.R368C (0.0044%)  
p.L1101Qfs\*3 (0.0044%)  
p.C634W (0.0044%)  
p.A479T (0.0044%)  
p.G691S (0.0022%)  
p.A45= (0.0022%)  
p.A510= (0.0022%)  
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p.D1110Y (0.0022%)  
p.L760= (0.0022%)  
p.R189H (0.0022%)  
p.V111D (0.0022%)  
p.S148del (0.0022%)  
p.P1047= (0.0022%)  
p.Y52= (0.0022%)  
p.E527G (0.0022%)  
p.I625M (0.0022%)  
p.L846I (0.0022%)  
p.L633= (0.0022%)  
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p.G1063C (0.0022%)  
p.R112H (0.0022%)  
p.M1064L (0.0022%)  
p.P117T (0.0022%)  
p.R330Q (0.0022%)  
p.D547= (0.0022%)  
p.S406G (0.0022%)  
p.F149= (0.0022%)  
p.G830A (0.0022%)  
p.L851H (0.0022%)  
p.S128A (0.0022%)  
p.R982H (0.0022%)  
p.R635C (0.0022%)  
p.A8= (0.0022%)  
p.G47D (0.0022%)  
p.V778I (0.0022%)  
p.L109H (0.0022%)  
p.D567= (0.0022%)  
p.A432T (0.0022%)  
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p.S767N (0.0022%)  
p.S1094R (0.0022%)  
p.L1101V (0.0022%)  
p.V245M (0.0022%)  
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p.F555\_S556insL (0.0022%)  
p.R474W (0.0022%)  
p.G967S (0.0022%)  
p.E511K (0.0022%)  
p.Y1090\* (0.0022%)  
p.G12D (0.1013%)  
p.G13D (0.0506%)  
p.G12V (0.0506%)  
p.G12C (0.0418%)  
p.G12A (0.0286%)  
p.Q61K (0.022%)  
p.Q61L (0.022%)  
p.G12R (0.022%)  
p.G12S (0.0176%)  
p.Q61H (0.0154%)  
p.C180\* (0.0022%)  
p.V112I (0.0022%)  
p.G12F (0.0022%)  
p.A66S (0.0022%)  
p.D126V (0.0022%)  
p.V109Tfs\*8 (0.0022%)  
p.A59G (0.0022%)  
p.G13C (0.0022%)  
p.T20M (0.0022%)  
p.E500K (0.011%)  
p.K835T (0.0022%)  
p.S682C (0.0088%)  
p.S1033N (0.0066%)  
p.P201S (0.0066%)  
p.R378Q (0.0044%)  
p.F299V (0.0044%)  
p.R285\* (0.0044%)  
p.P573R (0.0044%)  
p.E551D (0.0044%)  
p.R1060H (0.0044%)  
p.S422F (0.0044%)  
p.R893M (0.0022%)  
p.E986Q (0.0022%)  
p.W524G (0.0022%)  
p.P160= (0.0022%)  
p.P282= (0.0022%)  
p.Q644H (0.0022%)  
p.E10\* (0.0022%)  
p.P348S (0.0022%)  
p.R135Q (0.0022%)  
p.I919M (0.0022%)  
p.F653= (0.0022%)  
p.T989M (0.0022%)  
p.K836Nfs\*34 (0.0022%)  
p.R25T (0.0022%)  
p.P587= (0.0022%)  
p.Q141= (0.0022%)  
p.S562= (0.0022%)  
p.E455Q (0.0022%)  
p.P877L (0.0022%)  
p.C1120Y (0.0022%)  
p.E202Q (0.0022%)  
p.H219D (0.0022%)  
p.R977G (0.0022%)  
p.E1077Q (0.0022%)  
p.P11L (0.0022%)  
p.P161= (0.0022%)  
p.L244F (0.0022%)  
p.E235Q (0.0022%)  
p.R216L (0.0022%)  
p.D1075H (0.0022%)  
p.G303= (0.0022%)  
p.E99Q (0.0022%)  
p.D227Y (0.0022%)  
p.D489G (0.0022%)  
p.E1013Vfs\*2 (0.0022%)  
p.S278C (0.0022%)  
p.L21= (0.0022%)  
p.Y639C (0.0022%)  
p.R632M (0.0022%)  
p.R632S (0.0022%)  
p.T599= (0.0022%)  
p.I221M (0.0022%)  
p.M288I (0.0022%)  
p.S855C (0.0022%)  
p.Q1212K (0.0022%)  
p.S1033I (0.0022%)  
p.R612K (0.0022%)  
p.V217= (0.0022%)  
p.T753A (0.0022%)  
p.R63= (0.0022%)  
p.R63C (0.0022%)  
p.G103E (0.0022%)  
p.E498K (0.011%)  
p.E1356= (0.0022%)  
p.A224T (0.0066%)  
p.E465Q (0.0044%)  
p.L868= (0.0044%)  
p.E530K (0.0044%)  
p.R1528W (0.0044%)  
p.R1898C (0.0044%)  
p.H1401del (0.0044%)  
p.N752= (0.0022%)  
p.V741M (0.0022%)  
p.S1114C (0.0022%)  
p.Q1864P (0.0022%)  
p.R802L (0.0022%)  
p.R764C (0.0022%)  
p.E1522K (0.0022%)  
p.F235= (0.0022%)  
p.E1232K (0.0022%)  
p.E1040D (0.0022%)  
p.Q943H (0.0022%)  
p.K1248= (0.0022%)  
p.L92V (0.0022%)  
p.P510S (0.0022%)  
p.E1011Q (0.0022%)  
p.S1803F (0.0022%)  
p.E929K (0.0022%)  
p.E870\* (0.0022%)  
p.P726S (0.0022%)  
p.T630Yfs\*93 (0.0022%)  
p.E1320del (0.0022%)  
p.L347F (0.0022%)  
p.K682\_L687del (0.0022%)  
p.R1703= (0.0022%)  
p.E859V (0.0022%)  
p.E859\_K860insL (0.0022%)  
p.T1030I (0.0022%)  
p.D1293= (0.0022%)  
p.L127= (0.0022%)  
p.E912D (0.0022%)  
p.Q1323H (0.0022%)  
p.A1659T (0.0022%)  
p.E1307\_Q1311del (0.0022%)  
p.S1111Tfs\*23 (0.0022%)  
p.K1518N (0.0022%)  
p.R1528Sfs\*7 (0.0022%)  
p.E965Q (0.0022%)  
p.Q1878\* (0.0022%)  
p.I1029T (0.0022%)  
p.M627Hfs\*96 (0.0022%)  
p.K1020Nfs\*9 (0.0022%)  
p.K994\* (0.0022%)  
p.L996P (0.0022%)  
p.Y573C (0.0022%)  
p.R639W (0.0022%)  
p.E1531\* (0.0022%)  
p.N18S (0.0022%)  
p.Q951\_E954del (0.0022%)  
p.P522L (0.0022%)  
p.K545N (0.0022%)  
p.E1820\_L1823del (0.0022%)  
p.T181= (0.0022%)  
p.K810N (0.0022%)  
p.L447= (0.0066%)  
p.G417Efs\*5 (0.0022%)  
p.D424= (0.0022%)  
p.P871= (0.0022%)  
p.R734W (0.0022%)  
p.L23W (0.0022%)  
p.I619= (0.0022%)  
p.R291Q (0.0022%)  
p.P505= (0.0022%)  
p.Q488= (0.0022%)  
p.P973L (0.0022%)  
p.L101= (0.0022%)  
p.L719= (0.0022%)  
p.D585N (0.0022%)  
p.D812H (0.0022%)  
p.D404N (0.0022%)  
p.I77V (0.0022%)  
p.N9K (0.0022%)  
p.H257Y (0.0022%)  
p.E358G (0.0022%)  
p.R141Q (0.0022%)  
p.A828V (0.0022%)  
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p.E2942K (0.0044%)  
p.T2436A (0.0044%)  
p.L2958V (0.0044%)  
p.Y1835= (0.0022%)  
p.W2491L (0.0022%)  
p.Q57R (0.0022%)  
p.V807L (0.0022%)  
p.T2065P (0.0022%)  
p.P3227= (0.0022%)  
p.T622\_K629del (0.0022%)  
p.Y172= (0.0022%)  
p.S2077= (0.0022%)  
p.N3587= (0.0022%)  
p.V1479M (0.0022%)  
p.T1023= (0.0022%)  
p.Q3507= (0.0022%)  
p.K1032N (0.0022%)  
p.R960W (0.0022%)  
p.L3455= (0.0022%)  
p.R3690K (0.0022%)  
p.F69= (0.0022%)  
p.L3251F (0.0022%)  
p.E1248Q (0.0022%)  
p.L817= (0.0022%)  
p.R2858W (0.0022%)  
p.D2419H (0.0022%)  
p.F635= (0.0022%)  
p.S720F (0.0022%)  
p.A2671= (0.0022%)  
p.R3519W (0.0022%)  
p.Q3147= (0.0022%)  
p.Q1422\* (0.0022%)  
p.V3571M (0.0022%)  
p.L3102= (0.0022%)  
p.E2879= (0.0022%)  
p.M1467I (0.0022%)  
p.S2641= (0.0022%)  
p.A3682= (0.0022%)  
p.E1169= (0.0022%)  
p.E3653K (0.0022%)  
p.D2966N (0.0022%)  
p.E2226A (0.0022%)  
p.P373= (0.0022%)  
p.G2196A (0.0022%)  
p.Q2481= (0.0022%)  
p.M905I (0.0022%)  
p.L2215\_S2217delinsP (0.0022%)  
p.R1216Q (0.0022%)  
p.F541= (0.0022%)  
p.T1481S (0.0022%)  
p.K2883N (0.0022%)  
p.S2142= (0.0022%)  
p.F154S (0.0022%)  
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p.V1190D (0.0022%)  
p.V1162A (0.0022%)  
p.H2783= (0.0022%)  
p.R3171= (0.0022%)  
p.A1206P (0.0022%)  
p.D3852H (0.0022%)  
p.P825L (0.0022%)  
p.S1084L (0.0022%)  
p.Q256L (0.0154%)  
p.Q224\* (0.011%)  
p.V350G (0.011%)  
p.A454V (0.0088%)  
p.Q334\* (0.0066%)  
p.G508D (0.0066%)  
p.R361L (0.0066%)  
p.K428N (0.0066%)  
p.R361H (0.0066%)  
p.A118V (0.0066%)  
p.G473\* (0.0022%)  
p.G510E (0.0044%)  
p.A459T (0.0044%)  
p.W524C (0.0044%)  
p.R361C (0.0044%)  
p.Q289\* (0.0044%)  
p.L540del (0.0044%)  
p.H541Y (0.0044%)  
p.Q249P (0.0044%)  
p.L109R (0.0044%)  
p.R445\* (0.0044%)  
p.E321\* (0.0044%)  
p.S343\* (0.0044%)  
p.G247E (0.0044%)  
p.T7\* (0.0044%)  
p.G386D (0.0044%)  
p.C363R (0.0044%)  
p.S227Vfs\*14 (0.0044%)  
p.H132Y (0.0022%)  
p.S5C (0.0022%)  
p.G231Afs\*10 (0.0022%)  
p.H262Qfs\*75 (0.0022%)  
p.N263Ifs\*74 (0.0022%)  
p.P511Q (0.0022%)  
p.H528R (0.0022%)  
p.R380K (0.0022%)  
p.A466T (0.0022%)  
p.S144\* (0.0022%)  
p.F310L (0.0022%)  
p.N316Ifs\*20 (0.0022%)  
p.D351H (0.0022%)  
p.G336E (0.0022%)  
p.E526\* (0.0022%)  
p.E49D (0.0022%)  
p.G386V (0.0022%)  
p.G352R (0.0022%)  
p.K340T (0.0022%)  
p.L381\* (0.0022%)  
p.D415Xfs\*? (0.0022%)  
p.P185L (0.0022%)  
p.D52Rfs\*2 (0.0022%)  
p.I518T (0.0022%)  
p.L343= (0.0132%)  
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p.D1003N (0.0044%)  
p.A628= (0.0044%)  
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p.T494A (0.0044%)  
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p.R745C (0.0044%)  
p.E388K (0.0044%)  
p.G79= (0.0044%)  
p.E741D (0.0044%)  
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p.H902N (0.0044%)  
p.L569F (0.0044%)  
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p.A727= (0.0022%)  
p.Y448= (0.0022%)  
p.P710S (0.0022%)  
p.R275W (0.0022%)  
p.D1067V (0.0022%)  
p.A122D (0.0022%)  
p.K879\* (0.0022%)  
p.F982= (0.0022%)  
p.E825K (0.0022%)  
p.V450Cfs\*43 (0.0022%)  
p.F60L (0.0022%)  
p.A201= (0.0022%)  
p.V518= (0.0022%)  
p.D134N (0.0022%)  
p.S1249F (0.0022%)  
p.I389= (0.0022%)  
p.L197S (0.0022%)  
p.Q1330Pfs\*115 (0.0022%)  
p.V22Efs\*2 (0.0022%)  
p.S23Qfs\*23 (0.0022%)  
p.L21Wfs\*2 (0.0022%)  
p.G24Afs\*4 (0.0022%)  
p.G377E (0.0022%)  
p.Q999= (0.0022%)  
p.E715D (0.0022%)  
p.L295= (0.0022%)  
p.R1324L (0.0022%)  
p.E321D (0.0022%)  
p.S171= (0.0022%)  
p.H599= (0.0022%)  
p.L202= (0.0022%)  
p.N351= (0.0022%)  
p.A67G (0.0022%)  
p.T394S (0.0022%)  
p.E1002K (0.0022%)  
p.S315= (0.0022%)  
p.E889= (0.0022%)  
p.G79Rfs\*48 (0.0022%)  
p.T589I (0.0022%)  
p.P33= (0.0022%)  
p.N149D (0.0022%)  
p.S947= (0.0022%)  
p.T287A (0.0022%)  
p.R1354H (0.0022%)  
p.R170H (0.0022%)  
p.S172Y (0.0022%)  
p.A941G (0.0022%)  
p.S26= (0.0022%)  
p.V168M (0.0022%)  
p.A1227= (0.0022%)  
p.R1394Q (0.0088%)  
p.N555= (0.0066%)  
p.A1061= (0.0022%)  
p.E604K (0.0066%)  
p.D535Y (0.0066%)  
p.Y379= (0.0044%)  
p.V556I (0.0066%)  
p.G1296E (0.0044%)  
p.G1388R (0.0044%)  
p.A577= (0.0044%)  
p.T1229M (0.0044%)  
p.D811E (0.0044%)  
p.L209R (0.0044%)  
p.L732V (0.0044%)  
p.G133E (0.0044%)  
p.R441H (0.0044%)  
p.R1275T (0.0044%)  
p.S1223L (0.0044%)  
p.K100T (0.0022%)  
p.R1419W (0.0044%)  
p.T728M (0.0044%)  
p.L1165F (0.0044%)  
p.T1064M (0.0044%)  
p.A521T (0.0044%)  
p.P1315L (0.0022%)  
p.T728= (0.0022%)  
p.D860H (0.0022%)  
p.T123I (0.0022%)  
p.P643S (0.0022%)  
p.S547N (0.0022%)  
p.E684D (0.0022%)  
p.F60= (0.0022%)  
p.T1002M (0.0022%)  
p.S1132C (0.0022%)  
p.W1312\* (0.0022%)  
p.V1427G (0.0022%)  
p.L1432= (0.0022%)  
p.G876= (0.0022%)  
p.E684K (0.0022%)  
p.A1130T (0.0022%)  
p.Q655H (0.0022%)  
p.T654= (0.0022%)  
p.Q84H (0.0022%)  
p.G484A (0.0022%)  
p.V927L (0.0022%)  
p.R606S (0.0022%)  
p.E1421D (0.0022%)  
p.V1131M (0.0022%)  
p.L1408R (0.0022%)  
p.R783W (0.0022%)  
p.P1182A (0.0022%)  
p.T1106M (0.0022%)  
p.V1098I (0.0022%)  
p.S827G (0.0022%)  
p.Y812\* (0.0022%)  
p.E947Q (0.0022%)  
p.D293A (0.0022%)  
p.R1297Q (0.0022%)  
p.L79= (0.0022%)  
p.A398V (0.0022%)  
p.G1075R (0.0022%)  
p.R1308Efs\*64 (0.0022%)  
p.G17del (0.0022%)  
p.G1212S (0.0022%)  
p.P1306L (0.0022%)  
p.S660P (0.0022%)  
p.N388= (0.0022%)  
p.D879N (0.0022%)  
p.V548M (0.0022%)  
p.Q64H (0.0022%)  
p.C1043= (0.0022%)  
p.G1396V (0.0022%)  
p.A918T (0.0022%)  
p.Y955H (0.0022%)  
p.E992G (0.0022%)  
p.E112K (0.0066%)  
p.G598= (0.0022%)  
p.R400W (0.0022%)  
p.G173R (0.0022%)  
p.A94V (0.0022%)  
p.S399= (0.0022%)  
p.T91M (0.0022%)  
p.L337V (0.0022%)  
p.M121I (0.0022%)  
p.A43T (0.0044%)  
p.L770= (0.0044%)  
p.R949H (0.0022%)  
p.H697Y (0.0022%)  
p.L913F (0.0022%)  
p.G911= (0.0022%)  
p.R883\* (0.0022%)  
p.R301T (0.0022%)  
p.I776V (0.0022%)  
p.Q103\* (0.0022%)  
p.T474I (0.0022%)  
p.F104= (0.0022%)  
p.M511V (0.0022%)  
p.V846I (0.0022%)  
p.S105P (0.0022%)  
p.E104\* (0.0022%)  
p.R597T (0.0022%)  
p.N654S (0.0022%)  
p.R26K (0.0022%)  
p.E18K (0.0264%)  
p.E435K (0.0132%)  
p.T382P (0.0132%)  
p.L1191= (0.0132%)  
p.P286T (0.011%)  
p.L784F (0.0088%)  
p.L323V (0.0088%)  
p.L1074= (0.0044%)  
p.E785= (0.0066%)  
p.E1091D (0.0044%)  
p.Y361S (0.0066%)  
p.E967Q (0.0066%)  
p.D2172H (0.0066%)  
p.D435N (0.0066%)  
p.S764L (0.0066%)  
p.C476R (0.0066%)  
p.E1104K (0.0044%)  
p.V984= (0.0044%)  
p.S1066F (0.0044%)  
p.E1299Q (0.0044%)  
p.E771K (0.0044%)  
p.Y361H (0.0044%)  
p.L773= (0.0044%)  
p.E662Q (0.0044%)  
p.K1058N (0.0044%)  
p.H509N (0.0044%)  
p.E305K (0.0044%)  
p.G1216S (0.0044%)  
p.M1213I (0.0044%)  
p.R229W (0.0044%)  
p.E1217K (0.0044%)  
p.D2146A (0.0022%)  
p.S686F (0.0044%)  
p.P1420R (0.0044%)  
p.D213N (0.0044%)  
p.K1064N (0.0044%)  
p.L1729M (0.0044%)  
p.R721T (0.0044%)  
p.D802H (0.0044%)  
p.T2202M (0.0044%)  
p.I211K (0.0044%)  
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p.K733N (0.0022%)  
p.L316= (0.0044%)  
p.H1409R (0.0022%)  
p.E36K (0.0044%)  
p.V1256I (0.0044%)  
p.R1467W (0.0044%)  
p.E1341V (0.0044%)  
p.F389L (0.0044%)  
p.G1936E (0.0044%)  
p.K1564N (0.0044%)  
p.S415\* (0.0044%)  
p.P1692H (0.0044%)  
p.N1549S (0.0044%)  
p.E524K (0.0044%)  
p.R1519L (0.0044%)  
p.Q1419Hfs\*31 (0.0044%)  
p.P1416R (0.0044%)  
p.R674W (0.0022%)  
p.R264Q (0.0022%)  
p.P286R (0.0022%)  
p.R1826W (0.0022%)  
p.E370\* (0.0022%)  
p.E426K (0.0022%)  
p.E1255K (0.0022%)  
p.S449\* (0.0022%)  
p.S47\* (0.0022%)  
p.E1391Q (0.0022%)  
p.D530Y (0.0022%)  
p.S1362T (0.0022%)  
p.P1533H (0.0022%)  
p.E403Q (0.0022%)  
p.R573= (0.0022%)  
p.L293= (0.0022%)  
p.I631V (0.0022%)  
p.A637T (0.0022%)  
p.E932K (0.0022%)  
p.L1110= (0.0022%)  
p.P1474= (0.0022%)  
p.D787N (0.0022%)  
p.D1939Y (0.0022%)  
p.S1280= (0.0022%)  
p.L1681P (0.0022%)  
p.S1364N (0.0022%)  
p.W347G (0.0022%)  
p.T1017K (0.0022%)  
p.G1695= (0.0022%)  
p.S942F (0.0022%)  
p.D257H (0.0022%)  
p.L1206= (0.0022%)  
p.S200L (0.0022%)  
p.G1200Dfs\*9 (0.0022%)  
p.A2243T (0.0022%)  
p.S2268= (0.0022%)  
p.R1106K (0.0022%)  
p.S1169F (0.0022%)  
p.V743= (0.0022%)  
p.V2108L (0.0022%)  
p.T653M (0.0022%)  
p.D1882H (0.0022%)  
p.A428T (0.0022%)  
p.G1425= (0.0022%)  
p.Q556\* (0.0022%)  
p.L155= (0.0022%)  
p.R809K (0.0022%)  
p.P1190S (0.0022%)  
p.L1455= (0.0022%)  
p.G650E (0.0022%)  
p.A1571T (0.0022%)  
p.L1052= (0.0022%)  
p.V846L (0.0022%)  
p.H936Y (0.0022%)  
p.K1540E (0.0022%)  
p.R1121T (0.0022%)  
p.G1457= (0.0022%)  
p.R266Q (0.0022%)  
p.Q1285K (0.0022%)  
p.H319N (0.0022%)  
p.K1168Vfs\*13 (0.0022%)  
p.M1212T (0.0022%)  
p.R1125\* (0.0022%)  
p.L424V (0.0022%)  
p.D1783N (0.0022%)  
p.R259H (0.0022%)  
p.R855= (0.0022%)  
p.S2139C (0.0022%)  
p.P32Rfs\*34 (0.0022%)  
p.E1715K (0.0022%)  
p.Q1475R (0.0022%)  
p.L231F (0.0022%)  
p.A1303V (0.0022%)  
p.S20R (0.0022%)  
p.R573W (0.0022%)  
p.D759Rfs\*4 (0.0022%)  
p.E939Q (0.0022%)  
p.V574Gfs\*14 (0.0022%)  
p.P1205T (0.0022%)  
p.I478M (0.0022%)  
p.L117M (0.0022%)  
p.I2255F (0.0022%)  
p.C1379R (0.0022%)  
p.L1473P (0.0022%)  
p.A2192Rfs\*10 (0.0022%)  
p.M728T (0.0022%)  
p.E960\* (0.0022%)  
p.L2186= (0.0022%)  
p.G2136S (0.0022%)  
p.T279N (0.0022%)  
p.A1361G (0.0022%)  
p.Y416H (0.0022%)  
p.T757A (0.0022%)  
p.D368= (0.0022%)  
p.T593= (0.0022%)  
p.S1366= (0.0022%)  
p.A2030Pfs\*18 (0.0022%)  
p.P1671S (0.0022%)  
p.D529Y (0.0022%)  
p.D90N (0.0132%)  
p.E301Q (0.0066%)  
p.E528K (0.0066%)  
p.D501E (0.0066%)  
p.E607Q (0.0044%)  
p.E868Q (0.0044%)  
p.E485D (0.0044%)  
p.S1017F (0.0044%)  
p.W280\* (0.0044%)  
p.N831T (0.0044%)  
p.I332L (0.0044%)  
p.G645S (0.0044%)  
p.R757Q (0.0044%)  
p.N377Kfs\*24 (0.0022%)  
p.M407I (0.0022%)  
p.T748= (0.0022%)  
p.S457P (0.0022%)  
p.E694K (0.0022%)  
p.K375R (0.0022%)  
p.T425I (0.0022%)  
p.Y459H (0.0022%)  
p.Q1117\* (0.0022%)  
p.K628del (0.0022%)  
p.V1050E (0.0022%)  
p.F85= (0.0022%)  
p.I366= (0.0022%)  
p.K1099R (0.0022%)  
p.E940D (0.0022%)  
p.A941V (0.0022%)  
p.S901C (0.0022%)  
p.E694A (0.0022%)  
p.A1101G (0.0022%)  
p.M491L (0.0022%)  
p.G697S (0.0022%)  
p.E428D (0.0022%)  
p.L228I (0.0022%)  
p.R1103Q (0.0022%)  
p.I261M (0.0022%)  
p.S1296C (0.0066%)  
p.E234K (0.0066%)  
p.S1524L (0.0044%)  
p.L1235R (0.0044%)  
p.S1336L (0.0044%)  
p.R976Q (0.0044%)  
p.E74\* (0.0044%)  
p.D926H (0.0044%)  
p.S1155F (0.0044%)  
p.L140Q (0.0044%)  
p.T1105A (0.0044%)  
p.S1014R (0.0044%)  
p.R57C (0.0044%)  
p.D223N (0.0044%)  
p.E973K (0.0044%)  
p.S802R (0.0044%)  
p.K1180E (0.0044%)  
p.E1344del (0.0044%)  
p.L539F (0.0044%)  
p.S1072I (0.0044%)  
p.V1711M (0.0044%)  
p.D1636N (0.0044%)  
p.V1630L (0.0044%)  
p.G294V (0.0044%)  
p.R406T (0.0044%)  
p.R1580Q (0.0044%)  
p.A1040T (0.0044%)  
p.R451I (0.0022%)  
p.S1338\* (0.0022%)  
p.T246S (0.0022%)  
p.I127M (0.0022%)  
p.Q595E (0.0022%)  
p.D214G (0.0022%)  
p.P961= (0.0022%)  
p.L204V (0.0022%)  
p.D1478= (0.0022%)  
p.M1029V (0.0022%)  
p.L493= (0.0022%)  
p.S1764N (0.0022%)  
p.A210V (0.0022%)  
p.Q883E (0.0022%)  
p.S946I (0.0022%)  
p.L568V (0.0022%)  
p.F143L (0.0022%)  
p.P1538L (0.0022%)  
p.V339I (0.0022%)  
p.D702E (0.0022%)  
p.V1102= (0.0022%)  
p.E234\* (0.0022%)  
p.N425Y (0.0022%)  
p.T154= (0.0022%)  
p.L122= (0.0022%)  
p.Q1525\* (0.0022%)  
p.R943K (0.0022%)  
p.L1394= (0.0022%)  
p.R505\* (0.0022%)  
p.N1564H (0.0022%)  
p.F1806C (0.0022%)  
p.G756Lfs\*11 (0.0022%)  
p.D288= (0.0022%)  
p.D223G (0.0022%)  
p.L180P (0.0022%)  
p.V85\_A97del (0.0022%)  
p.E1602\* (0.0022%)  
p.R1459\* (0.0022%)  
p.R1459Pfs\*65 (0.0022%)  
p.R1751H (0.0022%)  
p.S1449C (0.0022%)  
p.G1604= (0.0022%)  
p.R1409W (0.0022%)  
p.R1477Gfs\*46 (0.0022%)  
p.E92V (0.0022%)  
p.E1351K (0.0022%)  
p.P1162L (0.0022%)  
p.N1182S (0.0022%)  
p.A306T (0.0022%)  
p.L191= (0.0022%)  
p.W896Sfs\*44 (0.0022%)  
p.R98Q (0.0022%)  
p.L823M (0.0022%)  
p.A1429S (0.0022%)  
p.L741H (0.0022%)  
p.I364F (0.0022%)  
p.G668C (0.0088%)  
p.A142\* (0.0066%)  
p.R1270Sfs\*6 (0.0066%)  
p.S1044C (0.0066%)  
p.G652S (0.0044%)  
p.I34V (0.0022%)  
p.Q623Sfs\*79 (0.0022%)  
p.S146Y (0.0044%)  
p.E788K (0.0044%)  
p.D451G (0.0044%)  
p.R628\* (0.0044%)  
p.E484G (0.0044%)  
p.G285V (0.0044%)  
p.R1073C (0.0044%)  
p.L1173= (0.0044%)  
p.I141Sfs\*3 (0.0044%)  
p.R625\* (0.0044%)  
p.D1163N (0.0044%)  
p.Q283H (0.0044%)  
p.M1161V (0.0044%)  
p.Q380= (0.0022%)  
p.K9del (0.0022%)  
p.T1186I (0.0022%)  
p.A1016V (0.0022%)  
p.E488K (0.0022%)  
p.G1336= (0.0022%)  
p.G219= (0.0022%)  
p.H407R (0.0022%)  
p.W898\* (0.0022%)  
p.S186L (0.0022%)  
p.D1242N (0.0022%)  
p.F322L (0.0022%)  
p.G485E (0.0022%)  
p.G263R (0.0022%)  
p.V442= (0.0022%)  
p.L1399V (0.0022%)  
p.A611T (0.0022%)  
p.W469R (0.0022%)  
p.P675L (0.0022%)  
p.P935= (0.0022%)  
p.G187R (0.0022%)  
p.G610= (0.0022%)  
p.G454= (0.0022%)  
p.W233C (0.0022%)  
p.L1378V (0.0022%)  
p.Q36\* (0.0022%)  
p.K497\* (0.0022%)  
p.G643= (0.0022%)  
p.R725= (0.0022%)  
p.Q1063\* (0.0022%)  
p.G646Wfs\*12 (0.0022%)  
p.D124N (0.0022%)  
p.E431\* (0.0022%)  
p.S577\* (0.0022%)  
p.Q512\* (0.0022%)  
p.D863H (0.0022%)  
p.E1006K (0.0022%)  
p.D1128Y (0.0022%)  
p.G1198V (0.0022%)  
p.K440= (0.0022%)  
p.S1028L (0.0022%)  
p.G629C (0.0022%)  
p.Y591\* (0.0022%)  
p.N320del (0.0022%)  
p.A619Sfs\*16 (0.0022%)  
p.G42R (0.0022%)  
p.N57S (0.0022%)  
p.S419F (0.0022%)  
p.D313A (0.0022%)  
p.K523N (0.0022%)  
p.E537D (0.0022%)  
p.D90Y (0.0022%)  
p.C594\* (0.0022%)  
p.D292H (0.0022%)  
p.L60P (0.0022%)  
p.R11C (0.0022%)  
p.S903= (0.0022%)  
p.A142Kfs\*8 (0.0022%)  
p.E1423= (0.0022%)  
p.G870Afs\*6 (0.0022%)  
p.N350S (0.0022%)  
p.A939= (0.0022%)  
p.K409N (0.0022%)  
p.G659D (0.0022%)  
p.E1102D (0.0022%)  
p.R244H (0.0022%)  
p.R354C (0.0088%)  
p.Q381\* (0.0022%)  
p.R221H (0.0066%)  
p.M288\_S298del (0.0066%)  
p.R99Q (0.0066%)  
p.E1540K (0.0044%)  
p.R736\* (0.0022%)  
p.D498Efs\*2 (0.0022%)  
p.M729Ifs\*32 (0.0022%)  
p.S1469N (0.0044%)  
p.F235Lfs\*7 (0.0022%)  
p.P541Afs\*12 (0.0022%)  
p.I1491= (0.0044%)  
p.E189K (0.0044%)  
p.E235D (0.0044%)  
p.S355P (0.0044%)  
p.D130H (0.0044%)  
p.R240\* (0.0044%)  
p.I38M (0.0044%)  
p.E941Q (0.0022%)  
p.G1162R (0.0022%)  
p.A61P (0.0022%)  
p.H1129P (0.0022%)  
p.T337P (0.0022%)  
p.P264= (0.0022%)  
p.T1711S (0.0022%)  
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p.K1527N (0.0022%)  
p.D201H (0.0022%)  
p.T440N (0.0022%)  
p.R1187T (0.0022%)  
p.D188Efs\*3 (0.0022%)  
p.E195Sfs\*2 (0.0022%)  
p.P1309L (0.0022%)  
p.D140N (0.0022%)  
p.S1041G (0.0022%)  
p.Y353= (0.0022%)  
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p.E1574Q (0.0022%)  
p.Q1030Gfs\*50 (0.0022%)  
p.Y609\* (0.0022%)  
p.F324= (0.0022%)  
p.E290Pfs\*4 (0.0022%)  
p.S1234F (0.0022%)  
p.Q301Sfs\*2 (0.0022%)  
p.L285V (0.0022%)  
p.A1510S (0.0022%)  
p.R1239Q (0.0022%)  
p.P1359L (0.0022%)  
p.K590T (0.0022%)  
p.V762= (0.0022%)  
p.G529\* (0.0022%)  
p.I325V (0.0022%)  
p.F102L (0.0022%)  
p.Q608\* (0.0022%)  
p.Y1091Nfs\*7 (0.0022%)  
p.P823= (0.0022%)  
p.L1701V (0.0022%)  
p.K973Sfs\*20 (0.0022%)  
p.M165Ifs\*12 (0.0022%)  
p.E183D (0.0022%)  
p.L285\* (0.0022%)  
p.F133V (0.0022%)  
p.L209= (0.0044%)  
p.E1480\* (0.0022%)  
p.S375C (0.0022%)  
p.Q367E (0.0022%)  
p.D1999N (0.0022%)  
p.L329F (0.0022%)  
p.F670= (0.0022%)  
p.S800C (0.0022%)  
p.K109= (0.0022%)  
p.Q578\* (0.0022%)  
p.S448Y (0.0022%)  
p.I1235M (0.0022%)  
p.S1819P (0.0022%)  
p.S1519L (0.0022%)  
p.D1408= (0.0022%)  
p.S620C (0.0022%)  
p.N1727D (0.0022%)  
p.R1037K (0.0022%)  
p.L1490P (0.0022%)  
p.Q2070E (0.0022%)  
p.D1109Ifs\*10 (0.0022%)  
p.H417Y (0.0022%)  
p.L1975F (0.0022%)  
p.Q2250K (0.0022%)  
p.Y331= (0.0022%)  
p.S1853T (0.0022%)  
p.T663S (0.0022%)  
p.D634= (0.0022%)  
p.P1588L (0.0022%)  
p.R2315\* (0.0022%)  
p.\*2591Sext\*4 (0.0022%)  
p.V724L (0.0022%)  
p.I2469M (0.0022%)  
p.L1392I (0.0022%)  
p.N1193K (0.0022%)  
p.G2445V (0.0022%)  
p.S1927C (0.0022%)  
p.A2189= (0.0022%)  
p.R540Q (0.0088%)  
p.S3\* (0.0088%)  
p.A320V (0.0066%)  
p.V253I (0.0022%)  
p.L760P (0.0044%)  
p.E1338Q (0.0044%)  
p.R1398T (0.0044%)  
p.R1268G (0.0044%)  
p.G522S (0.0044%)  
p.D35Y (0.0044%)  
p.Q995K (0.0044%)  
p.A986T (0.0044%)  
p.G86L (0.0044%)  
p.D417H (0.0044%)  
p.R761W (0.0044%)  
p.I1652= (0.0022%)  
p.I88M (0.0044%)  
p.S173R (0.0044%)  
p.D1336H (0.0044%)  
p.V137I (0.0044%)  
p.R1678H (0.0044%)  
p.A1149V (0.0044%)  
p.S116L (0.0022%)  
p.L1726= (0.0022%)  
p.L702M (0.0022%)  
p.Q1248H (0.0022%)  
p.T162S (0.0022%)  
p.D1389N (0.0022%)  
p.M1124L (0.0022%)  
p.V1132G (0.0022%)  
p.A1121V (0.0022%)  
p.D1627G (0.0022%)  
p.P601T (0.0022%)  
p.L207= (0.0022%)  
p.E1464K (0.0022%)  
p.E1640Q (0.0022%)  
p.S259L (0.0022%)  
p.K786= (0.0022%)  
p.V933A (0.0022%)  
p.R83W (0.0022%)  
p.A303S (0.0022%)  
p.K1104\* (0.0022%)  
p.E1611Qfs\*10 (0.0022%)  
p.E1611Rfs\*2 (0.0022%)  
p.V598M (0.0022%)  
p.S1310Qfs\*56 (0.0022%)  
p.K460\* (0.0022%)  
p.P405T (0.0022%)  
p.M458I (0.0022%)  
p.P346= (0.0022%)  
p.R21H (0.0022%)  
p.Q1239K (0.0022%)  
p.I1071T (0.0022%)  
p.E1337\* (0.0022%)  
p.Q1248\* (0.0022%)  
p.K175Rfs\*40 (0.0022%)  
p.R21C (0.0022%)  
p.T877= (0.0022%)  
p.W534\* (0.0022%)  
p.I1252V (0.0022%)  
p.S1739F (0.0022%)  
p.S563R (0.0022%)  
p.E164K (0.011%)  
p.S147F (0.0066%)  
p.Q937\* (0.0066%)  
p.T1074Rfs\*4 (0.0066%)  
p.E621Q (0.0044%)  
p.G1378\* (0.0044%)  
p.N515Mfs\*16 (0.0044%)  
p.L845P (0.0044%)  
p.S1062P (0.0044%)  
p.M1111I (0.0044%)  
p.M855I (0.0044%)  
p.S580F (0.0044%)  
p.Q184H (0.0044%)  
p.Y995F (0.0044%)  
p.I658M (0.0044%)  
p.S163Y (0.0044%)  
p.K1148N (0.0044%)  
p.D1269N (0.0044%)  
p.T298M (0.0022%)  
p.Q184E (0.0022%)  
p.P445L (0.0022%)  
p.P1320S (0.0022%)  
p.D362= (0.0022%)  
p.S232C (0.0022%)  
p.V826= (0.0022%)  
p.S1352F (0.0022%)  
p.R599K (0.0022%)  
p.G1134E (0.0022%)  
p.E265Q (0.0022%)  
p.E75K (0.0022%)  
p.S1280L (0.0022%)  
p.I1376= (0.0022%)  
p.L789= (0.0022%)  
p.D64V (0.0022%)  
p.G512R (0.0022%)  
p.R15C (0.0022%)  
p.S778F (0.0022%)  
p.R637I (0.0022%)  
p.R637= (0.0022%)  
p.N202S (0.0022%)  
p.G1104D (0.0022%)  
p.D565N (0.0022%)  
p.E589\* (0.0022%)  
p.Q1127H (0.0022%)  
p.T471= (0.0022%)  
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p.A196V (0.0044%)  
p.T582= (0.0022%)  
p.K32N (0.0022%)  
p.R1178\* (0.0022%)  
p.G16= (0.0022%)  
p.P465L (0.0022%)  
p.A30S (0.0022%)  
p.W1357L (0.0022%)  
p.Y281= (0.0022%)  
p.K939N (0.0022%)  
p.P67S (0.0022%)  
p.E176Q (0.0022%)  
p.L1283V (0.0022%)  
p.S300L (0.0022%)  
p.H153Y (0.0022%)  
p.Q37P (0.0022%)  
p.S1101Y (0.0022%)  
p.F182S (0.0022%)  
p.W193\* (0.0022%)  
p.T1093I (0.0022%)  
p.T1093S (0.0022%)  
p.R95Q (0.0022%)  
p.F78C (0.0022%)  
p.A363= (0.0022%)  
p.S960W (0.0022%)  
p.S287L (0.0132%)  
p.G289R (0.0088%)  
p.L220V (0.0088%)  
p.P407L (0.0088%)  
p.F286del (0.0066%)  
p.R385Q (0.0066%)  
p.R394Q (0.0066%)  
p.I273F (0.0066%)  
p.Q64= (0.0044%)  
p.D322\_D323delinsNY (0.0044%)  
p.D346H (0.0044%)  
p.D341Y (0.0044%)  
p.F310S (0.0044%)  
p.M406Ifs\*15 (0.0022%)  
p.N299S (0.0022%)  
p.F286S (0.0044%)  
p.R276W (0.0044%)  
p.A201V (0.0044%)  
p.N299H (0.0044%)  
p.L409R (0.0044%)  
p.D288G (0.0044%)  
p.R294W (0.0044%)  
p.R83H (0.0022%)  
p.K118= (0.0022%)  
p.V363M (0.0022%)  
p.I258= (0.0022%)  
p.K360Rfs\*19 (0.0022%)  
p.E401\* (0.0022%)  
p.R276Q (0.0022%)  
p.R217G (0.0022%)  
p.Y362= (0.0022%)  
p.I410del (0.0022%)  
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p.A300D (0.0022%)  
p.L224F (0.0022%)  
p.N133D (0.0022%)  
p.V363L (0.0022%)  
p.P407S (0.0022%)  
p.P407Q (0.0022%)  
p.R394L (0.0022%)  
p.M284V (0.0022%)  
p.L409Hfs\*36 (0.0022%)  
p.R432Gfs\*211 (0.0022%)  
p.R272W (0.0022%)  
p.T283N (0.0022%)  
p.T233= (0.0022%)  
p.S290C (0.0132%)  
p.L221R (0.0066%)  
p.S333\* (0.0066%)  
p.M503R (0.0066%)  
p.S762C (0.0066%)  
p.S941L (0.0044%)  
p.S171\* (0.0044%)  
p.F975L (0.0044%)  
p.S638L (0.0044%)  
p.E672K (0.0044%)  
p.L733= (0.0044%)  
p.S684L (0.0044%)  
p.A243= (0.0044%)  
p.R174T (0.0044%)  
p.G944= (0.0044%)  
p.D180Y (0.0044%)  
p.L30= (0.0044%)  
p.A443T (0.0044%)  
p.A271V (0.0044%)  
p.R215Q (0.0044%)  
p.D96Y (0.0044%)  
p.R682Q (0.0022%)  
p.S740\* (0.0022%)  
p.H756Y (0.0022%)  
p.L860M (0.0022%)  
p.G247= (0.0022%)  
p.R68G (0.0022%)  
p.R311P (0.0022%)  
p.V521I (0.0022%)  
p.R539Q (0.0022%)  
p.E444Kfs\*58 (0.0022%)  
p.E672\* (0.0022%)  
p.A447V (0.0022%)  
p.A80T (0.0022%)  
p.Q291H (0.0022%)  
p.I574N (0.0022%)  
p.S318L (0.0022%)  
p.Y566= (0.0022%)  
p.L221W (0.0022%)  
p.V102F (0.0022%)  
p.Q440E (0.0022%)  
p.Y874= (0.0022%)  
p.D787= (0.0022%)  
p.P480L (0.0022%)  
p.I674L (0.0022%)  
p.D580E (0.0022%)  
p.V795I (0.0022%)  
p.L534F (0.0022%)  
p.K215\* (0.0022%)  
p.Q989H (0.0022%)  
p.L143I (0.0022%)  
p.Y401C (0.0022%)  
p.G228V (0.0022%)  
p.R199H (0.0022%)  
p.A814V (0.0022%)  
p.P476S (0.0022%)  
p.N676K (0.0022%)  
p.C129S (0.0022%)  
p.L30M (0.0022%)  
p.S402G (0.0022%)  
p.L788I (0.0022%)  
p.L142I (0.0022%)  
p.Y141\* (0.0022%)  
p.K565T (0.0022%)  
p.R119T (0.0022%)  
p.Q115X\*17 (0.0022%)  
p.L561= (0.0022%)  
p.Q472H (0.0286%)  
p.R681\* (0.0022%)  
p.G1129V (0.0088%)  
p.C482R (0.0088%)  
p.D60H (0.0066%)  
p.D257N (0.0066%)  
p.E674D (0.0066%)  
p.D1254H (0.0066%)  
p.A772= (0.0044%)  
p.P291T (0.0044%)  
p.W1252C (0.0044%)  
p.P894= (0.0044%)  
p.L1592= (0.0022%)  
p.S112L (0.0044%)  
p.L882V (0.0044%)  
p.S137C (0.0044%)  
p.I1016V (0.0044%)  
p.D1698A (0.0022%)  
p.T550R (0.0022%)  
p.L886F (0.0044%)  
p.S84\* (0.0044%)  
p.P696T (0.0044%)  
p.N400H (0.0044%)  
p.G1652V (0.0044%)  
p.D30H (0.0044%)  
p.A954V (0.0044%)  
p.N318I (0.0044%)  
p.N265= (0.0022%)  
p.F921C (0.0022%)  
p.L330I (0.0022%)  
p.G404E (0.0022%)  
p.P992A (0.0022%)  
p.D1656N (0.0022%)  
p.L289V (0.0022%)  
p.T736I (0.0022%)  
p.N259I (0.0022%)  
p.L882I (0.0022%)  
p.R1118L (0.0022%)  
p.R1793G (0.0022%)  
p.E718\* (0.0022%)  
p.P912S (0.0022%)  
p.D1234N (0.0022%)  
p.Q56H (0.0022%)  
p.G716= (0.0022%)  
p.L24M (0.0022%)  
p.Q556= (0.0022%)  
p.R1103C (0.0022%)  
p.K134Rfs\*14 (0.0022%)  
p.R256G (0.0022%)  
p.H1554Y (0.0022%)  
p.S237C (0.0022%)  
p.I265M (0.0022%)  
p.P635T (0.0022%)  
p.V585= (0.0022%)  
p.M1360Kfs\*31 (0.0022%)  
p.G718A (0.0022%)  
p.A775T (0.0022%)  
p.V1167A (0.0022%)  
p.L1074P (0.0022%)  
p.S311L (0.0022%)  
p.G1161R (0.0022%)  
p.S1311Y (0.0022%)  
p.E1645K (0.0022%)  
p.V1199I (0.0022%)  
p.H1636N (0.0022%)  
p.D773N (0.0022%)  
p.R1117S (0.0022%)  
p.C905Y (0.0022%)  
p.T1138I (0.0022%)  
p.S1200Y (0.0022%)  
p.L942M (0.0022%)  
p.L1329= (0.0022%)  
p.R542Sfs\*26 (0.0022%)  
p.Q1369L (0.0022%)  
p.D1254E (0.0022%)  
p.L1792= (0.0022%)  
p.E1238= (0.0022%)  
p.N468= (0.0022%)  
p.E755Q (0.0022%)  
p.N1133= (0.0022%)  
p.L806= (0.0022%)  
p.L228= (0.0022%)  
p.A1316V (0.0022%)  
p.E828K (0.0022%)  
p.E952Q (0.0022%)  
p.G509E (0.0022%)  
p.V248F (0.0022%)  
p.Y87\* (0.0022%)  
p.P601S (0.0022%)  
p.Y121C (0.0022%)  
p.A195S (0.0022%)  
p.P328H (0.0022%)  
p.H269Y (0.0022%)  
p.R961W (0.0022%)  
p.S311\* (0.0022%)  
p.D1052N (0.0022%)  
p.L569= (0.0022%)  
p.G800D (0.0022%)  
p.P1502L (0.0022%)  
p.P1502= (0.0022%)  
p.V1234M (0.0022%)  
p.T384M (0.0022%)  
p.Q1169Sfs\*41 (0.0022%)  
p.I426M (0.0022%)  
p.R1662C (0.0022%)  
p.G644V (0.0022%)  
p.Q1153H (0.0022%)  
p.D81N (0.0022%)  
p.S217Lfs\*35 (0.0022%)  
p.A775V (0.0022%)  
p.S323P (0.0022%)  
p.G1145R (0.0022%)  
p.K266N (0.0022%)  
p.E1017Q (0.0022%)  
p.Y1130\* (0.0022%)  
p.T834Yfs\*3 (0.0022%)  
p.L886= (0.0022%)  
p.C1045\* (0.0022%)  
p.T22A (0.0022%)  
p.A1065T (0.0022%)  
p.S620R (0.0022%)  
p.N577K (0.0088%)  
p.E74Q (0.011%)  
p.E218Q (0.0088%)  
p.P268R (0.0066%)  
p.L645V (0.0066%)  
p.N577D (0.0066%)  
p.G81D (0.0066%)  
p.D585H (0.0066%)  
p.S619T (0.0022%)  
p.W19C (0.0044%)  
p.L404= (0.0044%)  
p.D163N (0.0044%)  
p.I408M (0.0044%)  
p.K687N (0.0044%)  
p.G94E (0.0044%)  
p.E170\* (0.0044%)  
p.P316L (0.0022%)  
p.Q602L (0.0022%)  
p.Q210= (0.0022%)  
p.A229= (0.0022%)  
p.I591= (0.0022%)  
p.E834K (0.0022%)  
p.F81= (0.0022%)  
p.E510Q (0.0022%)  
p.W715G (0.0022%)  
p.E369D (0.0022%)  
p.I250N (0.0022%)  
p.D333E (0.0022%)  
p.M117I (0.0022%)  
p.V279L (0.0022%)  
p.S137R (0.0022%)  
p.Q276E (0.0022%)  
p.L675= (0.0022%)  
p.K8= (0.0022%)  
p.E170K (0.0022%)  
p.G235E (0.0022%)  
p.Q774K (0.0022%)  
p.H446N (0.0022%)  
p.M763Ifs\*26 (0.0022%)  
p.S158L (0.0022%)  
p.Q442H (0.0022%)  
p.S549= (0.0022%)  
p.R87C (0.0022%)  
p.N255S (0.0022%)  
p.H540R (0.0022%)  
p.D93N (0.0022%)  
p.S821P (0.0022%)  
p.V436= (0.0022%)  
p.R840Q (0.0022%)  
p.R677W (0.0022%)  
p.K554= (0.0022%)  
p.T50= (0.0022%)  
p.F717= (0.0022%)  
p.G490R (0.0022%)  
p.G322D (0.0022%)  
p.K687M (0.0022%)  
p.V125E (0.0022%)  
p.N617= (0.0022%)  
p.P437= (0.0022%)  
p.Y332= (0.0022%)  
p.F228L (0.0022%)  
p.I529= (0.0022%)  
p.I359= (0.0022%)  
p.E143G (0.0022%)  
p.K687E (0.0022%)  
p.I318N (0.0022%)  
p.I341V (0.0022%)  
p.N303= (0.0022%)  
p.D166dup (0.0022%)  
p.I506M (0.0022%)  
p.A366T (0.0022%)  
p.K597R (0.0022%)  
p.E84K (0.011%)  
p.E526Q (0.0088%)  
p.I84= (0.0066%)  
p.P852L (0.0066%)  
p.L1006F (0.0066%)  
p.S500P (0.0066%)  
p.E211= (0.0044%)  
p.F404Sfs\*7 (0.0022%)  
p.R753\* (0.0022%)  
p.L381V (0.0044%)  
p.E639Q (0.0044%)  
p.E1420\* (0.0044%)  
p.D772N (0.0044%)  
p.E12\* (0.0044%)  
p.L1143= (0.0044%)  
p.D252N (0.0044%)  
p.D618H (0.0044%)  
p.R942T (0.0044%)  
p.R120K (0.0044%)  
p.S1155C (0.0044%)  
p.L909R (0.0044%)  
p.L1070P (0.0044%)  
p.R501S (0.0044%)  
p.I1035Mfs\*6 (0.0044%)  
p.D848H (0.0044%)  
p.F1263del (0.0044%)  
p.L970F (0.0044%)  
p.K1048N (0.0044%)  
p.R753L (0.0044%)  
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p.W575C (0.0044%)  
p.E15A (0.0044%)  
p.P1430Rfs\*15 (0.0044%)  
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p.D722N (0.0022%)  
p.V1123= (0.0022%)  
p.K974= (0.0022%)  
p.D234N (0.0022%)  
p.D694Y (0.0022%)  
p.R37H (0.0022%)  
p.L1225= (0.0022%)  
p.F1108= (0.0022%)  
p.G743D (0.0022%)  
p.F1210= (0.0022%)  
p.E918Q (0.0022%)  
p.Q904= (0.0022%)  
p.K631= (0.0022%)  
p.L1151P (0.0022%)  
p.R460\* (0.0022%)  
p.R52L (0.0022%)  
p.I865N (0.0022%)  
p.R1055G (0.0022%)  
p.E860K (0.0022%)  
p.Q168E (0.0022%)  
p.G971R (0.0022%)  
p.I76K (0.0022%)  
p.E402K (0.0022%)  
p.Q377E (0.0022%)  
p.G1178R (0.0022%)  
p.Q1146\* (0.0022%)  
p.T126M (0.0022%)  
p.L671V (0.0022%)  
p.G115E (0.0022%)  
p.S1149P (0.0022%)  
p.Q822\* (0.0022%)  
p.G982= (0.0022%)  
p.P108S (0.0022%)  
p.R1053C (0.0022%)  
p.V932M (0.0022%)  
p.N320I (0.0022%)  
p.E570Q (0.0022%)  
p.S201N (0.0022%)  
p.C1159S (0.0022%)  
p.S488I (0.0022%)  
p.A1334T (0.0022%)  
p.C625S (0.0022%)  
p.D62H (0.0022%)  
p.R511I (0.0022%)  
p.G93E (0.0022%)  
p.E1351D (0.0022%)  
p.K628\_C630del (0.0022%)  
p.L1038V (0.0022%)  
p.K140N (0.0022%)  
p.S865= (0.0022%)  
p.Q772Rfs\*5 (0.0022%)  
p.P543T (0.0022%)  
p.G755T (0.0022%)  
p.E1015K (0.0022%)  
p.M160I (0.0022%)  
p.R1084C (0.0022%)  
p.W932L (0.0022%)  
p.G596R (0.0022%)  
p.R844C (0.033%)  
p.W665R (0.0242%)  
p.I102K (0.0022%)  
p.S727F (0.0066%)  
p.S387C (0.0066%)  
p.I931F (0.0066%)  
p.I806M (0.0066%)  
p.Q282K (0.0066%)  
p.S503C (0.0044%)  
p.L527= (0.0022%)  
p.E1079K (0.0044%)  
p.I669= (0.0044%)  
p.L443F (0.0022%)  
p.V491= (0.0044%)  
p.P779Lfs\*28 (0.0044%)  
p.A340= (0.0044%)  
p.E737K (0.0044%)  
p.V274= (0.0044%)  
p.D728N (0.0044%)  
p.S576Y (0.0022%)  
p.P83= (0.0044%)  
p.Q190H (0.0044%)  
p.R844H (0.0044%)  
p.M583I (0.0044%)  
p.R803P (0.0044%)  
p.P335L (0.0044%)  
p.L831= (0.0022%)  
p.Q382= (0.0022%)  
p.R749Q (0.0022%)  
p.R1032C (0.0022%)  
p.R845I (0.0022%)  
p.R14C (0.0022%)  
p.F616= (0.0022%)  
p.P322A (0.0022%)  
p.N262H (0.0022%)  
p.Y806\* (0.0022%)  
p.V671= (0.0022%)  
p.E1039Nfs\*7 (0.0022%)  
p.R1113C (0.0022%)  
p.G146D (0.0022%)  
p.N623= (0.0022%)  
p.T648I (0.0022%)  
p.V676Wfs\*4 (0.0022%)  
p.I972T (0.0022%)  
p.E977\* (0.0022%)  
p.S542\* (0.0022%)  
p.R446= (0.0022%)  
p.Q204= (0.0022%)  
p.E364K (0.0022%)  
p.F1019L (0.0022%)  
p.Q1064\* (0.0022%)  
p.Q171H (0.0022%)  
p.S395F (0.0022%)  
p.T698A (0.0022%)  
p.R712K (0.0022%)  
p.F1011L (0.0022%)  
p.A147V (0.0022%)  
p.D866= (0.0022%)  
p.S736F (0.0022%)  
p.L744M (0.0022%)  
p.N764H (0.0022%)  
p.P496= (0.0022%)  
p.E72= (0.0022%)  
p.W889C (0.0022%)  
p.K1023N (0.0022%)  
p.Q581H (0.0022%)  
p.N335I (0.0022%)  
p.R591I (0.0022%)  
p.G498= (0.0022%)  
p.C585F (0.0022%)  
p.G998= (0.0022%)  
p.R765Q (0.0022%)  
p.F444L (0.0022%)  
p.H925= (0.0022%)  
p.T917S (0.0022%)  
p.C975R (0.0022%)  
p.N56= (0.0022%)  
p.T847= (0.0022%)  
p.N904= (0.0022%)  
p.I928V (0.0022%)  
p.V127= (0.0022%)  
p.T415\_G423del (0.0022%)  
p.T407= (0.0022%)  
p.R562= (0.0022%)  
p.F202del (0.0022%)  
p.D932H (0.0022%)  
p.D938H (0.0022%)  
p.Q712K (0.0022%)  
p.\*1038Eext\*7 (0.0022%)  
p.G1058S (0.0022%)  
p.L341F (0.0022%)  
p.A890T (0.0022%)  
p.Q517H (0.0022%)  
p.S606= (0.0022%)  
p.Q702H (0.0022%)  
p.E798Gfs\*17 (0.0022%)  
p.R844G (0.0022%)  
p.R180Hfs\*18 (0.0022%)  
p.I547T (0.0022%)  
p.R261Q (0.0022%)  
p.N610Qfs\*15 (0.0022%)  
p.P842A (0.0022%)  
p.M703Nfs\*7 (0.0022%)  
p.I1054M (0.0022%)  
p.T113K (0.0022%)  
p.I330Nfs\*4 (0.0022%)  
p.S94F (0.0154%)  
p.D703N (0.0066%)  
p.R284C (0.0066%)  
p.S179L (0.0044%)  
p.D965N (0.0044%)  
p.D532N (0.0044%)  
p.D1048N (0.0044%)  
p.R862Q (0.0044%)  
p.P1058A (0.0044%)  
p.D724E (0.0044%)  
p.P516S (0.0044%)  
p.K595R (0.0044%)  
p.A468V (0.0044%)  
p.H245R (0.0044%)  
p.I436F (0.0044%)  
p.G25W (0.0044%)  
p.I676= (0.0022%)  
p.D800Y (0.0022%)  
p.E652\* (0.0022%)  
p.V150L (0.0022%)  
p.S528L (0.0022%)  
p.S220Y (0.0022%)  
p.A325P (0.0022%)  
p.G498D (0.0022%)  
p.E929Q (0.0022%)  
p.T1041P (0.0022%)  
p.D852N (0.0022%)  
p.R983Q (0.0022%)  
p.D1013= (0.0022%)  
p.F246S (0.0022%)  
p.E1067A (0.0022%)  
p.V394G (0.0022%)  
p.Q910H (0.0022%)  
p.R1054\* (0.0022%)  
p.S184\* (0.0022%)  
p.C175Y (0.0022%)  
p.W896Cfs\*48 (0.0022%)  
p.A357T (0.0022%)  
p.E415K (0.0022%)  
p.F816S (0.0022%)  
p.D1047H (0.0022%)  
p.L533P (0.0022%)  
p.I926M (0.0022%)  
p.K855R (0.0022%)  
p.P190R (0.0022%)  
p.L26V (0.0022%)  
p.G177= (0.0022%)  
p.L4Q (0.0022%)  
p.V458M (0.0022%)  
p.P479\_A480insPP (0.0022%)  
p.P479\_A480dup (0.0022%)  
p.A955T (0.0022%)  
p.A481V (0.0022%)  
p.E473K (0.0132%)  
p.R187C (0.0066%)  
p.S78N (0.0066%)  
p.N136K (0.0044%)  
p.S100G (0.0022%)  
p.Q339\* (0.0022%)  
p.L337= (0.0022%)  
p.G407E (0.0022%)  
p.N443= (0.0022%)  
p.G114A (0.0022%)  
p.D162Y (0.0022%)  
p.R391L (0.0022%)  
p.E369Q (0.0022%)  
p.R391H (0.0022%)  
p.G400R (0.0022%)  
p.E398Q (0.0022%)  
p.R520C (0.0088%)  
p.W444\* (0.0088%)  
p.L214= (0.0066%)  
p.I471M (0.0066%)  
p.E623G (0.0022%)  
p.D8N (0.0044%)  
p.G532E (0.0044%)  
p.V55M (0.0044%)  
p.N499= (0.0022%)  
p.Y28D (0.0022%)  
p.F234= (0.0022%)  
p.L474V (0.0022%)  
p.I471= (0.0022%)  
p.V347G (0.0022%)  
p.A146G (0.0022%)  
p.G514E (0.0022%)  
p.W284C (0.0022%)  
p.I544T (0.0022%)  
p.R627H (0.0022%)  
p.E199K (0.011%)  
p.I66V (0.0066%)  
p.E1507K (0.0044%)  
p.E1565K (0.0044%)  
p.D1376H (0.0022%)  
p.Q207\* (0.0022%)  
p.S1226= (0.0022%)  
p.F709L (0.0022%)  
p.D1618H (0.0022%)  
p.R1567T (0.0022%)  
p.V1125= (0.0022%)  
p.L1623= (0.0022%)  
p.A1599= (0.0022%)  
p.M594V (0.0022%)  
p.L1012M (0.0022%)  
p.E665K (0.0022%)  
p.T1254= (0.0022%)  
p.V832= (0.0022%)  
p.E1469K (0.0022%)  
p.D1018H (0.0022%)  
p.K1419= (0.0022%)  
p.G660C (0.0022%)  
p.M594I (0.0022%)  
p.I617T (0.0022%)  
p.Y560= (0.0022%)  
p.R8C (0.0022%)  
p.H1201R (0.0022%)  
p.E33Q (0.0022%)  
p.I158M (0.0022%)  
p.K734= (0.0022%)  
p.Q10E (0.0022%)  
p.P489S (0.0022%)  
p.A1483S (0.0022%)  
p.F1603Sfs\*5 (0.0022%)  
p.A1599V (0.0022%)  
p.P399T (0.0022%)  
p.R1208S (0.0022%)  
p.G910\* (0.0022%)  
p.C752F (0.0022%)  
p.D1584N (0.0022%)  
p.P1109S (0.0022%)  
p.F220L (0.0022%)  
p.Q1087\* (0.0022%)  
p.I1488V (0.0022%)  
p.Q1482\* (0.0022%)  
p.R843Pfs\*22 (0.0022%)  
p.R1134W (0.0044%)  
p.D1036N (0.0044%)  
p.M1326K (0.0044%)  
p.P439= (0.0044%)  
p.E683Q (0.0044%)  
p.S47C (0.0022%)  
p.P447= (0.0022%)  
p.S930= (0.0022%)  
p.Q1061= (0.0022%)  
p.G1367R (0.0022%)  
p.M1400T (0.0022%)  
p.S225F (0.0022%)  
p.R1254\* (0.0022%)  
p.P517Sfs\*7 (0.0022%)  
p.G1267R (0.0022%)  
p.I406T (0.0022%)  
p.P231L (0.0022%)  
p.L863Qfs\*43 (0.0022%)  
p.S209C (0.0022%)  
p.A1188G (0.0022%)  
p.P140S (0.0022%)  
p.E966= (0.0022%)  
p.R843W (0.0022%)  
p.R843Sfs\*20 (0.0022%)  
p.S362F (0.0022%)  
p.F1204L (0.0022%)  
p.P316R (0.0022%)  
p.R1403W (0.0022%)  
p.P447S (0.0022%)  
p.P874A (0.0022%)  
p.A191D (0.0022%)  
p.N247D (0.0022%)  
p.G4R (0.0066%)  
p.E45K (0.0044%)  
p.I262M (0.0044%)  
p.S290L (0.0044%)  
p.C37\* (0.0044%)  
p.S18= (0.0044%)  
p.R224S (0.0044%)  
p.A331Pfs\*16 (0.0022%)  
p.V419= (0.0022%)  
p.Q349= (0.0022%)  
p.Y399\* (0.0022%)  
p.N100D (0.0022%)  
p.V65I (0.0022%)  
p.Q141\* (0.0176%)  
p.H204Y (0.011%)  
p.K267Sfs\*19 (0.011%)  
p.M563I (0.011%)  
p.R229\* (0.0022%)  
p.L272R (0.0066%)  
p.Q398E (0.0066%)  
p.D362H (0.0066%)  
p.R29\* (0.0066%)  
p.I85Yfs\*32 (0.0066%)  
p.K120\* (0.0044%)  
p.L1047V (0.0044%)  
p.W126\* (0.0044%)  
p.L36F (0.0044%)  
p.E200K (0.0044%)  
p.I16= (0.0044%)  
p.F11= (0.0044%)  
p.K562M (0.0044%)  
p.L605V (0.0044%)  
p.S957= (0.0022%)  
p.E253V (0.0044%)  
p.V220M (0.0044%)  
p.L570P (0.0044%)  
p.A489E (0.0044%)  
p.R490Q (0.0044%)  
p.E491\* (0.0044%)  
p.P534A (0.0044%)  
p.L103\_S104insC (0.0044%)  
p.S606Y (0.0044%)  
p.S606Vfs\*78 (0.0044%)  
p.L89R (0.0044%)  
p.D70Afs\*45 (0.0044%)  
p.E361\* (0.0044%)  
p.Q96\* (0.0044%)  
p.L129Pfs\*25 (0.0044%)  
p.C170Y (0.0044%)  
p.D423= (0.0022%)  
p.Y973F (0.0022%)  
p.Y464H (0.0022%)  
p.S1189= (0.0022%)  
p.R26Q (0.0022%)  
p.E34D (0.0022%)  
p.S606C (0.0022%)  
p.R108= (0.0022%)  
p.R108P (0.0022%)  
p.G174A (0.0022%)  
p.S153C (0.0022%)  
p.H472= (0.0022%)  
p.Q752= (0.0022%)  
p.N265I (0.0022%)  
p.H1240P (0.0022%)  
p.L1001V (0.0022%)  
p.I1043V (0.0022%)  
p.P533H (0.0022%)  
p.S1427Ffs\*4 (0.0022%)  
p.E916K (0.0022%)  
p.V529= (0.0022%)  
p.I421M (0.0022%)  
p.L455= (0.0022%)  
p.E1489D (0.0022%)  
p.L1267V (0.0022%)  
p.Q344Gfs\*25 (0.0022%)  
p.H127Y (0.0022%)  
p.L277= (0.0022%)  
p.R1247W (0.0022%)  
p.L129= (0.0022%)  
p.E184K (0.0022%)  
p.L241= (0.0022%)  
p.L249V (0.0022%)  
p.V200= (0.0022%)  
p.K892R (0.0022%)  
p.A1132= (0.0022%)  
p.V484G (0.0022%)  
p.P554A (0.0022%)  
p.Q218\* (0.0022%)  
p.T573= (0.0022%)  
p.G450D (0.0022%)  
p.G1398R (0.0022%)  
p.P398T (0.0022%)  
p.Q403\* (0.0022%)  
p.T868= (0.0022%)  
p.G1481\* (0.0022%)  
p.G865A (0.0022%)  
p.L570Q (0.0022%)  
p.F869L (0.0022%)  
p.Y106Sfs\*10 (0.0022%)  
p.S598= (0.0022%)  
p.A289E (0.0022%)  
p.Q1440\* (0.0022%)  
p.I85Sfs\*33 (0.0022%)  
p.R923C (0.0022%)  
p.S160F (0.0022%)  
p.A135G (0.0022%)  
p.T530I (0.0022%)  
p.R521Pfs\*15 (0.0022%)  
p.I365V (0.0022%)  
p.Q458\* (0.0022%)  
p.Q248E (0.0022%)  
p.L103dup (0.0022%)  
p.R387W (0.0022%)  
p.V746A (0.0022%)  
p.P441Lfs\*8 (0.0022%)  
p.K229I (0.0022%)  
p.V352F (0.0022%)  
p.R319W (0.0022%)  
p.G835R (0.0022%)  
p.K567Sfs\*24 (0.0022%)  
p.E389\* (0.0022%)  
p.K562del (0.0022%)  
p.F43\_F47del (0.0022%)  
p.K315Rfs\*58 (0.0022%)  
p.S183C (0.0022%)  
p.D1383V (0.0022%)  
p.R484W (0.0022%)  
p.S464\* (0.0154%)  
p.P137Rfs\*8 (0.0132%)  
p.Q107\* (0.0088%)  
p.E177Nfs\*11 (0.011%)  
p.K96Qfs\*29 (0.0088%)  
p.Q168\* (0.0088%)  
p.S320\* (0.0088%)  
p.W60\* (0.0088%)  
p.H23Pfs\*102 (0.0088%)  
p.N460S (0.0088%)  
p.Q163E (0.0066%)  
p.Y74\* (0.0066%)  
p.R330S (0.0066%)  
p.R120\* (0.0066%)  
p.T92M (0.0066%)  
p.R50\* (0.0066%)  
p.D63E (0.0044%)  
p.Q147\* (0.0022%)  
p.E540K (0.0044%)  
p.F467Y (0.0044%)  
p.S467L (0.0044%)  
p.E41K (0.0044%)  
p.E540G (0.0044%)  
p.V444M (0.0044%)  
p.T157A (0.0044%)  
p.P360L (0.0044%)  
p.S27\* (0.0044%)  
p.K165\* (0.0044%)  
p.E239G (0.0044%)  
p.P526T (0.0044%)  
p.T198A (0.0044%)  
p.G97D (0.0044%)  
p.E86Kfs\*33 (0.0044%)  
p.L411P (0.0044%)  
p.E22\* (0.0044%)  
p.E46\* (0.0044%)  
p.T170Mfs\*52 (0.0044%)  
p.V472A (0.0044%)  
p.P497T (0.0044%)  
p.E53Kfs\*18 (0.0044%)  
p.T42I (0.0044%)  
p.V109G (0.0022%)  
p.K53N (0.0022%)  
p.V357L (0.0022%)  
p.P26L (0.0022%)  
p.C256S (0.0022%)  
p.W40G (0.0022%)  
p.N154K (0.0022%)  
p.Q65Rfs\*6 (0.0022%)  
p.E105\* (0.0022%)  
p.E146= (0.0022%)  
p.Q20\* (0.0022%)  
p.K90N (0.0022%)  
p.H353= (0.0022%)  
p.Q163\* (0.0022%)  
p.F311L (0.0022%)  
p.P35Rfs\*7 (0.0022%)  
p.V63= (0.0022%)  
p.F62L (0.0022%)  
p.S138W (0.0022%)  
p.R520Q (0.0022%)  
p.Q219= (0.0022%)  
p.L442V (0.0022%)  
p.D60N (0.0022%)  
p.D128N (0.0022%)  
p.K96\* (0.0022%)  
p.C99W (0.0022%)  
p.A351= (0.0022%)  
p.E54\* (0.0022%)  
p.Y268= (0.0022%)  
p.Y165F (0.0022%)  
p.E510K (0.0022%)  
p.V79Gfs\*41 (0.0022%)  
p.N66Efs\*59 (0.0022%)  
p.A391D (0.0022%)  
p.K73Qfs\*52 (0.0022%)  
p.E126\* (0.0022%)  
p.Q77Pfs\*48 (0.0022%)  
p.F356C (0.0022%)  
p.Y88Tfs\*31 (0.0022%)  
p.L41\* (0.0022%)  
p.T135Lfs\*10 (0.0022%)  
p.S2= (0.0022%)  
p.\*199Lext\*60 (0.0022%)  
p.C29Gfs\*12 (0.0022%)  
p.E126Rfs\*19 (0.0022%)  
p.Q65\* (0.0022%)  
p.W546\* (0.0022%)  
p.E75\* (0.0022%)  
p.N66Kfs\*59 (0.0022%)  
p.T225A (0.0022%)  
p.A98Cfs\*27 (0.0022%)  
p.C148Y (0.0022%)  
p.R43Gfs\*81 (0.0022%)  
p.W76\* (0.0022%)  
p.T430M (0.0022%)  
p.V412L (0.0022%)  
p.S161Lfs\*64 (0.0022%)  
p.S12N (0.0022%)  
p.D51Ifs\*5 (0.0022%)  
p.Q57\* (0.0022%)  
p.K134Rfs\*11 (0.0022%)  
p.F62Lfs\*9 (0.0022%)  
p.T157N (0.0022%)  
p.P191fs\*? (0.0022%)  
p.S56Rfs\*16 (0.0022%)  
p.T157= (0.0022%)  
p.S125\* (0.0022%)  
p.C463Xfs\*>6 (0.0022%)  
p.Q107Hfs\*13 (0.0022%)  
p.E71\* (0.0022%)  
p.L477M (0.0022%)  
p.W60fs\*? (0.0022%)  
p.D51Hfs\*73 (0.0022%)  
p.D44G (0.0022%)  
p.Y89\* (0.0022%)  
p.K73Sfs\*46 (0.0022%)  
p.V412M (0.0022%)  
p.R446H (0.0088%)  
p.R428Q (0.0066%)  
p.S796C (0.0066%)  
p.R470H (0.0066%)  
p.A615T (0.0066%)  
p.V826I (0.0066%)  
p.R447H (0.0044%)  
p.R889Q (0.0044%)  
p.V299M (0.0044%)  
p.V1035I (0.0044%)  
p.T509M (0.0044%)  
p.S796P (0.0044%)  
p.T783N (0.0044%)  
p.N483K (0.0044%)  
p.G926S (0.0044%)  
p.R972H (0.0044%)  
p.S1055L (0.0044%)  
p.A789T (0.0044%)  
p.E280K (0.0022%)  
p.A305= (0.0022%)  
p.P703L (0.0022%)  
p.R381H (0.0022%)  
p.Y386\* (0.0022%)  
p.L573= (0.0022%)  
p.W36\* (0.0022%)  
p.V808F (0.0022%)  
p.A801P (0.0022%)  
p.R968= (0.0022%)  
p.A880T (0.0022%)  
p.V977L (0.0022%)  
p.L232V (0.0022%)  
p.T878N (0.0022%)  
p.D516G (0.0022%)  
p.G291V (0.0022%)  
p.T355S (0.0022%)  
p.G932= (0.0022%)  
p.R52\_P59del (0.011%)  
p.S446\* (0.0088%)  
p.R73Q (0.0088%)  
p.V85M (0.0022%)  
p.E537K (0.0066%)  
p.S54L (0.0066%)  
p.G345E (0.0066%)  
p.A40V (0.0066%)  
p.G568E (0.0044%)  
p.R406L (0.0066%)  
p.W762F (0.0066%)  
p.R21G (0.0044%)  
p.V695D (0.0044%)  
p.L570V (0.0044%)  
p.R641Q (0.0044%)  
p.V713= (0.0044%)  
p.F283L (0.0044%)  
p.Q730L (0.0044%)  
p.R93H (0.0044%)  
p.L359\_P365del (0.0044%)  
p.T490I (0.0044%)  
p.C108Vfs\*16 (0.0044%)  
p.L484\* (0.0044%)  
p.I740R (0.0044%)  
p.H686Ifs\*28 (0.0044%)  
p.W629\* (0.0044%)  
p.T719R (0.0044%)  
p.D601H (0.0044%)  
p.L585I (0.0044%)  
p.S664= (0.0022%)  
p.R675I (0.0022%)  
p.L585= (0.0022%)  
p.L363I (0.0022%)  
p.G611S (0.0022%)  
p.L151H (0.0022%)  
p.A727S (0.0022%)  
p.S398N (0.0022%)  
p.S468\* (0.0022%)  
p.H119R (0.0022%)  
p.R1066Q (0.0022%)  
p.D578N (0.0022%)  
p.S179\* (0.0022%)  
p.S679L (0.0022%)  
p.V298A (0.0022%)  
p.T605I (0.0022%)  
p.A564P (0.0022%)  
p.E469K (0.0022%)  
p.Q710\* (0.0022%)  
p.L625= (0.0022%)  
p.G232D (0.0022%)  
p.V297I (0.0022%)  
p.P89= (0.0022%)  
p.Y974= (0.0022%)  
p.C478\* (0.0022%)  
p.E447= (0.0022%)  
p.S574= (0.0022%)  
p.V573= (0.0022%)  
p.G273Efs\*3 (0.0022%)  
p.C74S (0.0022%)  
p.Q581K (0.0022%)  
p.I286V (0.0022%)  
p.L393= (0.0022%)  
p.Q1067K (0.0022%)  
p.G698= (0.0022%)  
p.A274T (0.0022%)  
p.D458Rfs\*10 (0.0022%)  
p.R557= (0.0022%)  
p.V289M (0.0022%)  
p.R565C (0.0022%)  
p.T696= (0.0022%)  
p.N1010T (0.0022%)  
p.N512Ifs\*2 (0.0022%)  
p.Q462\* (0.0022%)  
p.G161V (0.0022%)  
p.S151Rfs\*8 (0.0022%)  
p.G491R (0.0022%)  
p.P669L (0.0022%)  
p.K129= (0.0088%)  
p.S123P (0.0066%)  
p.K57E (0.0066%)  
p.T486A (0.0022%)  
p.E466\* (0.0044%)  
p.P226L (0.0044%)  
p.I246L (0.0044%)  
p.L352F (0.0044%)  
p.K155Q (0.0044%)  
p.S436F (0.0044%)  
p.Q335\* (0.0044%)  
p.Q164E (0.0044%)  
p.K64= (0.0044%)  
p.Q56P (0.0044%)  
p.A347Rfs\*19 (0.0044%)  
p.G176V (0.0044%)  
p.S231L (0.0044%)  
p.K4N (0.0022%)  
p.S135= (0.0022%)  
p.V512A (0.0022%)  
p.E203D (0.0022%)  
p.D593G (0.0022%)  
p.S86A (0.0022%)  
p.D19N (0.0022%)  
p.R344T (0.0022%)  
p.Q565\* (0.0022%)  
p.V127M (0.0022%)  
p.R251K (0.0022%)  
p.D336H (0.0022%)  
p.G7R (0.0022%)  
p.S498I (0.0022%)  
p.L160= (0.0022%)  
p.E312Q (0.0022%)  
p.E203K (0.0022%)  
p.G79V (0.0022%)  
p.L970I (0.0022%)  
p.I379= (0.0022%)  
p.S377F (0.0022%)  
p.D856Y (0.0022%)  
p.N752D (0.0022%)  
p.I125M (0.0022%)  
p.L39Afs\*4 (0.0022%)  
p.L40\_D41insG (0.0022%)  
p.K69\* (0.0022%)  
p.A264V (0.0022%)  
p.A43Gfs\*5 (0.0022%)  
p.E956V (0.0022%)  
p.R142Q (0.0022%)  
p.G128C (0.0022%)  
p.L115P (0.0022%)  
p.R47Q (0.0022%)  
p.E493Q (0.0132%)  
p.E225K (0.0088%)  
p.S717L (0.0022%)  
p.S1046C (0.0066%)  
p.R1097C (0.0066%)  
p.L463Ffs\*69 (0.0066%)  
p.R190Afs\*20 (0.0066%)  
p.E813\* (0.0066%)  
p.R212Q (0.0066%)  
p.G450R (0.0066%)  
p.S673F (0.0022%)  
p.S509L (0.0044%)  
p.E979Q (0.0044%)  
p.R1314W (0.0044%)  
p.K976R (0.0044%)  
p.A1027V (0.0044%)  
p.E217K (0.0044%)  
p.H279Y (0.0044%)  
p.R1165C (0.0044%)  
p.S832F (0.0044%)  
p.L747P (0.0044%)  
p.P582L (0.0044%)  
p.S1173Vfs\*91 (0.0044%)  
p.Q280\* (0.0044%)  
p.D443Vfs\*11 (0.0044%)  
p.Q974\* (0.0044%)  
p.S294R (0.0044%)  
p.K238\* (0.0044%)  
p.R1307Q (0.0044%)  
p.K542T (0.0044%)  
p.I76S (0.0044%)  
p.T1065M (0.0044%)  
p.Y195\* (0.0044%)  
p.R332\* (0.0044%)  
p.M322T (0.0022%)  
p.E445= (0.0022%)  
p.G1006R (0.0022%)  
p.L439M (0.0022%)  
p.Q755H (0.0022%)  
p.D26E (0.0022%)  
p.R160C (0.0022%)  
p.R1312= (0.0022%)  
p.A663V (0.0022%)  
p.Q1294L (0.0022%)  
p.A1295P (0.0022%)  
p.T356A (0.0022%)  
p.L197Yfs\*37 (0.0022%)  
p.D1107H (0.0022%)  
p.E744Q (0.0022%)  
p.A866Tfs\*67 (0.0022%)  
p.E985= (0.0022%)  
p.P412= (0.0022%)  
p.E981K (0.0022%)  
p.R787Q (0.0022%)  
p.V873= (0.0022%)  
p.A1070T (0.0022%)  
p.L832V (0.0022%)  
p.K33N (0.0022%)  
p.E1274K (0.0022%)  
p.G247D (0.0022%)  
p.P196H (0.0022%)  
p.F697S (0.0022%)  
p.E446Q (0.0022%)  
p.V80M (0.0022%)  
p.A567V (0.0022%)  
p.G1535R (0.0022%)  
p.S1183C (0.0022%)  
p.K459N (0.0022%)  
p.G378A (0.0022%)  
p.E1276K (0.0022%)  
p.Q1201H (0.0022%)  
p.H279N (0.0022%)  
p.G529S (0.0022%)  
p.K1091T (0.0022%)  
p.I1434= (0.0022%)  
p.R1284Gfs\*15 (0.0022%)  
p.L921V (0.0022%)  
p.S1333A (0.0022%)  
p.L1076\_T1077insP (0.0022%)  
p.L1076P (0.0022%)  
p.E878K (0.0022%)  
p.R953K (0.0022%)  
p.A173= (0.0022%)  
p.V161= (0.0022%)  
p.I238M (0.0022%)  
p.L797Rfs\*3 (0.0022%)  
p.L115= (0.0022%)  
p.A1092\_R1093insP (0.0022%)  
p.A1000= (0.0022%)  
p.E439D (0.0022%)  
p.S98C (0.0022%)  
p.T345Nfs\*4 (0.0022%)  
p.S237A (0.0022%)  
p.S946N (0.0022%)  
p.A944V (0.0022%)  
p.L129H (0.0022%)  
p.A1070V (0.0022%)  
p.L901P (0.0022%)  
p.Y948F (0.0022%)  
p.S511R (0.0022%)  
p.K477E (0.0022%)  
p.C707W (0.0022%)  
p.E297\* (0.0022%)  
p.L853Wfs\*25 (0.0022%)  
p.S1169L (0.0022%)  
p.L1002F (0.0022%)  
p.R1093= (0.0022%)  
p.D47G (0.0022%)  
p.A186P (0.0022%)  
p.I140= (0.0044%)  
p.R386Q (0.0044%)  
p.I201= (0.0044%)  
p.I1737= (0.0044%)  
p.R319Pfs\*4 (0.0044%)  
p.T947A (0.0044%)  
p.S161Ffs\*2 (0.0044%)  
p.Q300H (0.0044%)  
p.D429H (0.0044%)  
p.A895S (0.0044%)  
p.P312= (0.0022%)  
p.E873K (0.0022%)  
p.H492Y (0.0022%)  
p.S595F (0.0022%)  
p.I531= (0.0022%)  
p.R328Q (0.0022%)  
p.P1765= (0.0022%)  
p.L1406V (0.0022%)  
p.A216S (0.0022%)  
p.N595= (0.0022%)  
p.L1940= (0.0022%)  
p.K449= (0.0022%)  
p.V1507= (0.0022%)  
p.E1449K (0.0022%)  
p.Q1531= (0.0022%)  
p.L1554= (0.0022%)  
p.L1150= (0.0022%)  
p.A1577V (0.0022%)  
p.E1285K (0.0022%)  
p.K1708N (0.0022%)  
p.D904N (0.0022%)  
p.A262S (0.0022%)  
p.L1101= (0.0022%)  
p.L73= (0.0022%)  
p.Q1717Sfs\*4 (0.0022%)  
p.R2086H (0.0022%)  
p.R241H (0.0022%)  
p.T845M (0.0022%)  
p.V537L (0.0022%)  
p.K815N (0.0022%)  
p.R663H (0.0022%)  
p.R442= (0.0022%)  
p.G1999R (0.0022%)  
p.G1999E (0.0022%)  
p.R592Q (0.0022%)  
p.P138Q (0.0022%)  
p.L793Pfs\*31 (0.0022%)  
p.V949= (0.0022%)  
p.E483Kfs\*14 (0.0022%)  
p.L984= (0.0022%)  
p.Q1318E (0.0022%)  
p.S1844= (0.0022%)  
p.Q555H (0.0022%)  
p.N796S (0.0022%)  
p.T1178P (0.0022%)  
p.T2028I (0.0022%)  
p.E291D (0.0022%)  
p.R1490L (0.0022%)  
p.I57= (0.0022%)  
p.Q622\* (0.0022%)  
p.E771Q (0.0022%)  
p.A1204G (0.0022%)  
p.R1190Q (0.0022%)  
p.W311L (0.0022%)  
p.L550= (0.0022%)  
p.S1834L (0.0022%)  
p.D1522H (0.0088%)  
p.E1670Q (0.0088%)  
p.D1713V (0.0066%)  
p.L879V (0.0066%)  
p.P934L (0.0066%)  
p.S411L (0.0066%)  
p.E707\* (0.0066%)  
p.E970A (0.0066%)  
p.S1545F (0.0044%)  
p.R800K (0.0044%)  
p.D1454E (0.0044%)  
p.S1106C (0.0044%)  
p.P645A (0.0044%)  
p.S1628I (0.0044%)  
p.D417E (0.0044%)  
p.S1747L (0.0044%)  
p.E1793D (0.0044%)  
p.S1631F (0.0044%)  
p.A1338= (0.0022%)  
p.E497A (0.0022%)  
p.L1047R (0.0022%)  
p.S1477C (0.0022%)  
p.S132= (0.0022%)  
p.A695V (0.0022%)  
p.S1664L (0.0022%)  
p.E1340Q (0.0022%)  
p.Q108E (0.0022%)  
p.Q1028= (0.0022%)  
p.E1424Q (0.0022%)  
p.L785= (0.0022%)  
p.D609del (0.0022%)  
p.P1013T (0.0022%)  
p.K1601Rfs\*19 (0.0022%)  
p.S167\* (0.0022%)  
p.R1003\* (0.0022%)  
p.D1454H (0.0022%)  
p.A1133T (0.0022%)  
p.S591C (0.0022%)  
p.K1557N (0.0022%)  
p.E416K (0.0022%)  
p.V776F (0.0022%)  
p.S834F (0.0022%)  
p.Q7R (0.0022%)  
p.R1314Q (0.0022%)  
p.C1510Y (0.0022%)  
p.E1499Q (0.0022%)  
p.E399V (0.0022%)  
p.S1160F (0.0022%)  
p.Y1285Tfs\*17 (0.0022%)  
p.D455Y (0.0044%)  
p.S484= (0.0044%)  
p.E211Q (0.0044%)  
p.I732L (0.0022%)  
p.M1316V (0.0022%)  
p.Q433E (0.0022%)  
p.R1226C (0.0022%)  
p.Y1206H (0.0022%)  
p.N674= (0.0022%)  
p.L763= (0.0022%)  
p.Q733\* (0.0022%)  
p.E507D (0.0022%)  
p.G271S (0.0022%)  
p.G390E (0.0022%)  
p.S110C (0.0022%)  
p.F705= (0.0022%)  
p.R516K (0.0022%)  
p.M660Rfs\*16 (0.0022%)  
p.I741M (0.0022%)  
p.\*719Wext\*84 (0.0022%)  
p.R705S (0.0022%)  
p.N362K (0.0022%)  
p.A363T (0.0022%)  
p.I1276L (0.0022%)  
p.L227= (0.0022%)  
p.K362= (0.0022%)  
p.R271H (0.0022%)  
p.Q221R (0.0022%)  
p.H109N (0.0022%)  
p.C1102R (0.0022%)  
p.G443W (0.0022%)  
p.R350C (0.0022%)  
p.G656C (0.0022%)  
p.S989L (0.0022%)  
p.T982I (0.0022%)  
p.R435C (0.0044%)  
p.V850\_T861del (0.0022%)  
p.K940\* (0.0022%)  
p.P814S (0.0022%)  
p.K1044Rfs\*33 (0.0022%)  
p.Y605F (0.0022%)  
p.E1174Q (0.0022%)  
p.E395Q (0.0022%)  
p.Q550Lfs\*5 (0.0022%)  
p.E1198D (0.0022%)  
p.W1247R (0.0022%)  
p.L777\* (0.0022%)  
p.V505L (0.0022%)  
p.H1124R (0.0022%)  
p.G785R (0.0022%)  
p.S142F (0.0088%)  
p.T115M (0.0022%)  
p.P260= (0.0066%)  
p.G34R (0.0066%)  
p.T652M (0.0022%)  
p.V120A (0.0044%)  
p.S612= (0.0044%)  
p.S416F (0.0044%)  
p.R287Q (0.0044%)  
p.E32R (0.0044%)  
p.E202= (0.0022%)  
p.Y226\* (0.0022%)  
p.D109Y (0.0022%)  
p.E91Q (0.0022%)  
p.G49= (0.0022%)  
p.Q23R (0.0022%)  
p.H188= (0.0022%)  
p.P311= (0.0022%)  
p.S741N (0.0022%)  
p.R396Q (0.0022%)  
p.S204Y (0.0022%)  
p.E347del (0.0022%)  
p.R196T (0.0022%)  
p.G677R (0.0022%)  
p.S275Lfs\*36 (0.0022%)  
p.P35= (0.0022%)  
p.A382V (0.0022%)  
p.S554= (0.0022%)  
p.V811M (0.0022%)  
p.S594L (0.0022%)  
p.R385K (0.0022%)  
p.P87R (0.0022%)  
p.Q365P (0.0022%)  
p.S425C (0.0022%)  
p.T426M (0.0022%)  
p.E501\_E504del (0.0022%)  
p.T722M (0.0022%)  
p.E353\* (0.0066%)  
p.Q1225E (0.0044%)  
p.R259K (0.0044%)  
p.\*863Sext\*1 (0.0044%)  
p.P61A (0.0044%)  
p.P239L (0.0044%)  
p.D973H (0.0044%)  
p.L333V (0.0044%)  
p.K658E (0.0044%)  
p.R712\* (0.0044%)  
p.P23T (0.0044%)  
p.T332= (0.0044%)  
p.E209Q (0.0044%)  
p.G74S (0.0044%)  
p.P494R (0.0044%)  
p.K603Q (0.0044%)  
p.A584T (0.0044%)  
p.T316I (0.0044%)  
p.G825= (0.0044%)  
p.S327L (0.0022%)  
p.R509C (0.0022%)  
p.S222Y (0.0022%)  
p.V1661A (0.0022%)  
p.E464K (0.0022%)  
p.F689= (0.0022%)  
p.E163K (0.0022%)  
p.R723Q (0.0022%)  
p.D94N (0.0022%)  
p.G616= (0.0022%)  
p.K1968= (0.0022%)  
p.T1668P (0.0022%)  
p.T1277P (0.0022%)  
p.G112C (0.0022%)  
p.I300L (0.0022%)  
p.E401D (0.0022%)  
p.L1810\* (0.0022%)  
p.H122Y (0.0022%)  
p.L465\_M468del (0.0022%)  
p.S200C (0.0022%)  
p.E1478K (0.0022%)  
p.L935= (0.0022%)  
p.S1326C (0.0022%)  
p.Q530= (0.0022%)  
p.L1829= (0.0022%)  
p.S119L (0.0022%)  
p.Q224H (0.0022%)  
p.Y70Vfs\*2 (0.0022%)  
p.G69V (0.0022%)  
p.L68Ffs\*17 (0.0022%)  
p.D1219N (0.0022%)  
p.A443Rfs\*26 (0.0022%)  
p.E671G (0.0022%)  
p.L409M (0.0022%)  
p.D1839H (0.0022%)  
p.S359R (0.0022%)  
p.E2194K (0.0022%)  
p.N1105K (0.0022%)  
p.Q2259E (0.0022%)  
p.Y286H (0.0022%)  
p.R146Q (0.0022%)  
p.E464D (0.0022%)  
p.V299L (0.0022%)  
p.A276G (0.0022%)  
p.Q687\* (0.0022%)  
p.R1957K (0.0022%)  
p.S1692C (0.0022%)  
p.Q1919\* (0.0022%)  
p.R2233C (0.0022%)  
p.L202\_K203delinsQN (0.0022%)  
p.I149T (0.0022%)  
p.G620W (0.0022%)  
p.A635D (0.0022%)  
p.P414S (0.0022%)  
p.R1770Q (0.0022%)  
p.G352S (0.0022%)  
p.S1207R (0.0022%)  
p.Q1690H (0.0022%)  
p.E73Q (0.0022%)  
p.V1398= (0.0022%)  
p.A526V (0.0022%)  
p.K944del (0.0022%)  
p.S57L (0.0022%)  
p.S215= (0.0022%)  
p.Q269E (0.0022%)  
p.G490= (0.0022%)  
p.M1691I (0.0022%)  
p.A1627\_E1634del (0.0022%)  
p.G791R (0.0022%)  
p.E397K (0.0066%)  
p.E15G (0.0022%)  
p.E547D (0.0044%)  
p.I97T (0.0044%)  
p.S214L (0.0044%)  
p.I208M (0.0022%)  
p.R503C (0.0022%)  
p.I544= (0.0022%)  
p.E547\* (0.0022%)  
p.R100= (0.0022%)  
p.R100H (0.0022%)  
p.K193= (0.0022%)  
p.A449= (0.0022%)  
p.E345G (0.0022%)  
p.M285I (0.0022%)  
p.E513\* (0.0022%)  
p.L183= (0.0022%)  
p.S652F (0.0088%)  
p.F162Lfs\*19 (0.0088%)  
p.S52A (0.0066%)  
p.L377F (0.0066%)  
p.A230= (0.0044%)  
p.F421= (0.0044%)  
p.L135= (0.0044%)  
p.H51Y (0.0022%)  
p.L972F (0.0044%)  
p.S361F (0.0044%)  
p.E137K (0.0044%)  
p.R315Q (0.0044%)  
p.T130I (0.0044%)  
p.L59F (0.0044%)  
p.P428= (0.0044%)  
p.S1820L (0.0022%)  
p.R997\* (0.0022%)  
p.E1630K (0.0022%)  
p.Y116C (0.0022%)  
p.G64Lfs\*108 (0.0022%)  
p.M338R (0.0022%)  
p.Q1520H (0.0022%)  
p.R610\* (0.0022%)  
p.Q1888E (0.0022%)  
p.S65W (0.0022%)  
p.V1798I (0.0022%)  
p.K1322N (0.0022%)  
p.L436V (0.0022%)  
p.K482Sfs\*4 (0.0022%)  
p.R609C (0.0022%)  
p.C135Afs\*36 (0.0022%)  
p.E184= (0.0022%)  
p.I1203= (0.0022%)  
p.R870S (0.0022%)  
p.E578Q (0.0022%)  
p.Q2344H (0.0022%)  
p.L1447V (0.0022%)  
p.K1435N (0.0022%)  
p.E2282Q (0.0022%)  
p.L1390V (0.0022%)  
p.E1984K (0.0022%)  
p.S619F (0.0022%)  
p.H296Y (0.0022%)  
p.F844Lfs\*43 (0.0022%)  
p.D221Y (0.0022%)  
p.E1237K (0.0022%)  
p.R1381T (0.0022%)  
p.H1042Y (0.0022%)  
p.L904= (0.0022%)  
p.P1678A (0.0022%)  
p.Q2329H (0.0022%)  
p.E974K (0.0022%)  
p.E766\* (0.0022%)  
p.D766Y (0.0022%)  
p.L742V (0.0022%)  
p.L1454= (0.0022%)  
p.E1153= (0.0022%)  
p.G153R (0.0022%)  
p.A121V (0.0022%)  
p.D984Y (0.0022%)  
p.L436= (0.0022%)  
p.L793F (0.0022%)  
p.A329T (0.0022%)  
p.Q1393= (0.0022%)  
p.E1736K (0.0022%)  
p.A434V (0.0022%)  
p.Q440\* (0.0022%)  
p.I196= (0.0022%)  
p.L788F (0.0022%)  
p.E1030D (0.0022%)  
p.K952= (0.0022%)  
p.K1549N (0.0022%)  
p.I579= (0.0022%)  
p.S483G (0.0022%)  
p.E1487K (0.0022%)  
p.E1173D (0.0022%)  
p.K265= (0.0022%)  
p.E1153K (0.0022%)  
p.S590R (0.0022%)  
p.Q729L (0.0022%)  
p.L1327= (0.0022%)  
p.V2222M (0.0022%)  
p.A731V (0.0022%)  
p.A366G (0.0022%)  
p.G169Afs\*2 (0.0022%)  
p.Q2114K (0.0022%)  
p.D1021H (0.0022%)  
p.L819M (0.0022%)  
p.E669Q (0.0022%)  
p.E1108\* (0.0022%)  
p.I640Rfs\*42 (0.0022%)  
p.H1109Y (0.0022%)  
p.H1014Y (0.0022%)  
p.A343G (0.0022%)  
p.D71= (0.0022%)  
p.P1334= (0.0022%)  
p.F240= (0.0022%)  
p.R2100I (0.0022%)  
p.Q1084= (0.0022%)  
p.V741Gfs\*5 (0.0022%)  
p.F843I (0.0022%)  
p.N503S (0.0022%)  
p.L1307= (0.0022%)  
p.R2145C (0.0022%)  
p.K871N (0.0022%)  
p.C1380\* (0.0022%)  
p.P1402T (0.0022%)  
p.G1287R (0.0022%)  
p.T452M (0.0022%)  
p.R1350W (0.0022%)  
p.A1687= (0.0022%)  
p.S1453Lfs\*346 (0.0022%)  
p.Q1100E (0.0022%)  
p.L699F (0.0022%)  
p.G995R (0.0022%)  
p.Y742\* (0.0022%)  
p.L976= (0.0022%)  
p.R832Q (0.0022%)  
p.A1217G (0.0022%)  
p.R1598P (0.0022%)  
p.Q805\* (0.0022%)  
p.R594H (0.0022%)  
p.K1637M (0.0022%)  
p.V1095G (0.0022%)  
p.R1165W (0.0022%)  
p.E309K (0.0022%)  
p.R425W (0.0022%)  
p.S1417P (0.0022%)  
p.H332\_I333dup (0.0022%)  
p.E807D (0.0022%)  
p.C661Y (0.0022%)  
p.E1382Q (0.0022%)  
p.D1289N (0.0022%)  
p.R434K (0.0022%)  
p.E1109Gfs\*64 (0.0022%)  
p.Q802H (0.0022%)  
p.V797= (0.0022%)  
p.G56V (0.0022%)  
p.P1334L (0.0022%)  
p.K945Rfs\*3 (0.0022%)  
p.E139del (0.0022%)  
p.L145= (0.0022%)  
p.S265\* (0.0066%)  
p.E404K (0.0066%)  
p.D201N (0.0044%)  
p.E182Q (0.0044%)  
p.K586N (0.0044%)  
p.Q125H (0.0044%)  
p.S156R (0.0044%)  
p.E527V (0.0044%)  
p.P135Lfs\*39 (0.0044%)  
p.E394\* (0.0044%)  
p.H195P (0.0022%)  
p.L551= (0.0022%)  
p.E564Q (0.0022%)  
p.E555K (0.0022%)  
p.P490= (0.0022%)  
p.E386K (0.0022%)  
p.I68\_A73del (0.0022%)  
p.M369Rfs\*6 (0.0022%)  
p.K449Xfs\*45 (0.0022%)  
p.E215D (0.0022%)  
p.R200W (0.0022%)  
p.E372K (0.0022%)  
p.E463K (0.0022%)  
p.E231\* (0.0022%)  
p.V219Xfs\*? (0.0022%)  
p.R200fs\*26 (0.0022%)  
p.R57\* (0.0022%)  
p.L290= (0.0044%)  
p.I217T (0.0066%)  
p.C65Wfs\*3 (0.0066%)  
p.V66L (0.0044%)  
p.R96C (0.0044%)  
p.E709Q (0.0044%)  
p.P319= (0.0044%)  
p.M319I (0.0044%)  
p.N276T (0.0044%)  
p.K321N (0.0044%)  
p.A39T (0.0044%)  
p.D189N (0.0044%)  
p.V547F (0.0044%)  
p.E582= (0.0044%)  
p.K326R (0.0044%)  
p.P580A (0.0022%)  
p.A286S (0.0044%)  
p.P176T (0.0044%)  
p.P235Qfs\*13 (0.0044%)  
p.F30L (0.0022%)  
p.F313= (0.0022%)  
p.S74\* (0.0022%)  
p.T149I (0.0022%)  
p.S21C (0.0022%)  
p.R567T (0.0022%)  
p.Q135\* (0.0022%)  
p.R708Q (0.0022%)  
p.S499F (0.0022%)  
p.E334K (0.0022%)  
p.S531F (0.0022%)  
p.F30= (0.0022%)  
p.I90F (0.0022%)  
p.R29P (0.0022%)  
p.P358S (0.0022%)  
p.A152T (0.0022%)  
p.V547I (0.0022%)  
p.T747= (0.0022%)  
p.E597K (0.0022%)  
p.A249P (0.0022%)  
p.F278= (0.0022%)  
p.T94A (0.0022%)  
p.A352S (0.0022%)  
p.A352V (0.0022%)  
p.K150E (0.0022%)  
p.N550T (0.0022%)  
p.D332N (0.0022%)  
p.P128T (0.0022%)  
p.Q713H (0.0022%)  
p.D570N (0.0022%)  
p.G531R (0.0022%)  
p.L582M (0.0022%)  
p.A261D (0.0022%)  
p.E213G (0.0022%)  
p.F329L (0.0022%)  
p.K52= (0.0022%)  
p.K242N (0.0022%)  
p.M319T (0.0022%)  
p.V568A (0.0022%)  
p.M438T (0.0022%)  
p.C341Y (0.0022%)  
p.D314N (0.0022%)  
p.N623S (0.0022%)  
p.V46V (0.0022%)  
p.P122A (0.0022%)  
p.R1162W (0.0088%)  
p.E97K (0.0088%)  
p.L289= (0.0022%)  
p.F1280L (0.0066%)  
p.S193N (0.0044%)  
p.R1489H (0.0044%)  
p.G1336E (0.0044%)  
p.G267V (0.0044%)  
p.M460I (0.0044%)  
p.R877W (0.0044%)  
p.L258F (0.0044%)  
p.R956Q (0.0022%)  
p.R572\* (0.0022%)  
p.I72= (0.0022%)  
p.E1323Q (0.0022%)  
p.L898= (0.0022%)  
p.R273T (0.0022%)  
p.E41Q (0.0022%)  
p.V1187G (0.0022%)  
p.G1065= (0.0022%)  
p.G1408= (0.0022%)  
p.Q730E (0.0022%)  
p.D746N (0.0022%)  
p.E1266K (0.0022%)  
p.K504\_I505insR (0.0022%)  
p.H329D (0.0022%)  
p.V148M (0.0022%)  
p.P295= (0.0022%)  
p.K1034T (0.0022%)  
p.R102C (0.0022%)  
p.T349= (0.0022%)  
p.T383P (0.0022%)  
p.A1555= (0.0022%)  
p.N1113S (0.0022%)  
p.M753V (0.0022%)  
p.S1452\_K1457del (0.0022%)  
p.E1510Q (0.0022%)  
p.N1149K (0.0022%)  
p.R975L (0.0022%)  
p.W621\* (0.0022%)  
p.E820K (0.0022%)  
p.D1867N (0.0022%)  
p.L1257M (0.0022%)  
p.I989F (0.0022%)  
p.P904T (0.0022%)  
p.V1868= (0.0022%)  
p.K1016N (0.0022%)  
p.K119del (0.0022%)  
p.P90Q (0.0022%)  
p.A235P (0.0022%)  
p.L1062V (0.0022%)  
p.I296M (0.0022%)  
p.D316H (0.0022%)  
p.R56H (0.0022%)  
p.D104N (0.0022%)  
p.T494= (0.0022%)  
p.S631R (0.0022%)  
p.D1110N (0.0022%)  
p.E1645\* (0.0022%)  
p.I488V (0.0022%)  
p.L1318Q (0.0022%)  
p.K1239= (0.0022%)  
p.R877Q (0.0022%)  
p.D164N (0.0022%)  
p.S364Y (0.0022%)  
p.W736L (0.0022%)  
p.D858= (0.0022%)  
p.R1331Q (0.0022%)  
p.F1112L (0.0022%)  
p.G89V (0.0022%)  
p.D1604= (0.0022%)  
p.A938T (0.0022%)  
p.R975H (0.0022%)  
p.L441R (0.0022%)  
p.S1211Y (0.0022%)  
p.E820D (0.0022%)  
p.T492= (0.0022%)  
p.D720N (0.0022%)  
p.V692Gfs\*19 (0.0022%)  
p.L82L (0.0022%)  
p.Q568R (0.0022%)  
p.D389H (0.0022%)  
p.L1836= (0.0022%)  
p.S846L (0.0088%)  
p.P162L (0.0066%)  
p.S466F (0.0066%)  
p.K711N (0.0066%)  
p.V164I (0.0066%)  
p.L731= (0.0022%)  
p.E616= (0.0044%)  
p.R841W (0.0044%)  
p.G92= (0.0044%)  
p.S216L (0.0044%)  
p.G552A (0.0044%)  
p.R134Q (0.0044%)  
p.D85N (0.0044%)  
p.R295G (0.0044%)  
p.R990H (0.0044%)  
p.D777V (0.0044%)  
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p.T30= (0.0044%)  
p.A755V (0.0044%)  
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p.S1030= (0.0022%)  
p.I587M (0.0022%)  
p.A872= (0.0022%)  
p.Q1934E (0.0022%)  
p.E1918\* (0.0022%)  
p.T124= (0.0022%)  
p.R911= (0.0022%)  
p.P274= (0.0022%)  
p.N364I (0.0022%)  
p.V267M (0.0022%)  
p.T694I (0.0022%)  
p.P1826S (0.0022%)  
p.V427L (0.0022%)  
p.L1283I (0.0022%)  
p.S109A (0.0022%)  
p.N1167K (0.0022%)  
p.R1190G (0.0022%)  
p.A717S (0.0022%)  
p.E184del (0.0022%)  
p.R111C (0.0022%)  
p.E1085K (0.0022%)  
p.E1911Q (0.0022%)  
p.R2039Q (0.0022%)  
p.D689N (0.0022%)  
p.N674Kfs\*2 (0.0022%)  
p.E1127K (0.0022%)  
p.R183Q (0.0022%)  
p.E938Q (0.0022%)  
p.A337V (0.0022%)  
p.E1166D (0.0022%)  
p.P499L (0.0022%)  
p.L231V (0.0022%)  
p.E1935K (0.0022%)  
p.Q173K (0.0022%)  
p.F1014= (0.0022%)  
p.E709\* (0.0022%)  
p.Q1336\* (0.0022%)  
p.S1580L (0.0022%)  
p.R482S (0.0022%)  
p.E1094Q (0.0022%)  
p.E750Q (0.0022%)  
p.A144T (0.0022%)  
p.Q2045= (0.0022%)  
p.Q1053L (0.0022%)  
p.R1874= (0.0022%)  
p.L828= (0.0022%)  
p.F17L (0.0022%)  
p.V882E (0.0022%)  
p.K633= (0.0022%)  
p.Q1341\* (0.0022%)  
p.V281M (0.0022%)  
p.D123= (0.0022%)  
p.G43Wfs\*27 (0.0022%)  
p.T110N (0.0022%)  
p.N1676S (0.0022%)  
p.C1041Y (0.0022%)  
p.P91H (0.0022%)  
p.C166F (0.0022%)  
p.F809= (0.0022%)  
p.R923H (0.0022%)  
p.V988M (0.0022%)  
p.R1106= (0.0022%)  
p.G1117Wfs\*30 (0.0022%)  
p.G927V (0.0022%)  
p.V498I (0.0022%)  
p.P1242= (0.0022%)  
p.D1080E (0.0022%)  
p.E808Q (0.0022%)  
p.R111H (0.0022%)  
p.E440Q (0.0022%)  
p.V761= (0.0022%)  
p.H609D (0.0022%)  
p.R429\* (0.0022%)  
p.V219L (0.0022%)  
p.Q310\* (0.0022%)  
p.R74H (0.0022%)  
p.A11D (0.0022%)  
p.G758= (0.0022%)  
p.T645N (0.0022%)  
p.T1113M (0.0022%)  
p.S293Y (0.0022%)  
p.E406K (0.0044%)  
p.T402M (0.0044%)  
p.R267\* (0.0044%)  
p.P482A (0.0044%)  
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p.E472D (0.0022%)  
p.R316Q (0.0022%)  
p.E445D (0.0022%)  
p.F272= (0.0022%)  
p.S430I (0.0022%)  
p.M238T (0.0022%)  
p.G840= (0.0022%)  
p.S708A (0.0022%)  
p.C1041= (0.0022%)  
p.S647L (0.0022%)  
p.I912= (0.0022%)  
p.S1128Vfs\*34 (0.0022%)  
p.N314I (0.0022%)  
p.M250R (0.0022%)  
p.K686R (0.0022%)  
p.F70L (0.0022%)  
p.V811= (0.0022%)  
p.I404N (0.0022%)  
p.Q11L (0.0022%)  
p.P1340S (0.0022%)  
p.L754V (0.0022%)  
p.S40Y (0.0022%)  
p.E510del (0.0022%)  
p.I1381M (0.0022%)  
p.R1033Q (0.0022%)  
p.A356V (0.0022%)  
p.T663M (0.0022%)  
p.N158K (0.0022%)  
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p.S361I (0.0022%)  
p.K550T (0.011%)  
p.T21M (0.0088%)  
p.R445Q (0.0066%)  
p.W716\* (0.0066%)  
p.E132K (0.0066%)  
p.R222C (0.0066%)  
p.G460E (0.0066%)  
p.T467P (0.0066%)  
p.G908S (0.0066%)  
p.V722I (0.0066%)  
p.L201= (0.0044%)  
p.D730\* (0.0044%)  
p.S15L (0.0044%)  
p.I633M (0.0044%)  
p.E853\* (0.0044%)  
p.E331K (0.0044%)  
p.T496I (0.0044%)  
p.S1005F (0.0044%)  
p.C1024= (0.0044%)  
p.F286C (0.0044%)  
p.R33W (0.0044%)  
p.E225G (0.0044%)  
p.D661N (0.0044%)  
p.F711S (0.0044%)  
p.L320V (0.0044%)  
p.Q337\* (0.0044%)  
p.Q653E (0.0044%)  
p.S624C (0.0044%)  
p.S652C (0.0044%)  
p.F358L (0.0044%)  
p.S269\* (0.0044%)  
p.I544M (0.0044%)  
p.A272V (0.0044%)  
p.P479T (0.0044%)  
p.D502H (0.0044%)  
p.Y646H (0.0044%)  
p.L205Afs\*2 (0.0044%)  
p.R40H (0.0044%)  
p.P493A (0.0044%)  
p.A154T (0.0044%)  
p.Q629R (0.0022%)  
p.F817= (0.0022%)  
p.I386= (0.0022%)  
p.G858A (0.0022%)  
p.S1124L (0.0022%)  
p.F366C (0.0022%)  
p.A609P (0.0022%)  
p.R161T (0.0022%)  
p.R223H (0.0022%)  
p.M729Cfs\*16 (0.0022%)  
p.R984H (0.0022%)  
p.I64Gfs\*19 (0.0022%)  
p.L462= (0.0022%)  
p.E197Rfs\*12 (0.0022%)  
p.S644\* (0.0022%)  
p.D185= (0.0022%)  
p.R621\* (0.0022%)  
p.Q489H (0.0022%)  
p.Q510H (0.0022%)  
p.Q451E (0.0022%)  
p.L1091M (0.0022%)  
p.E549G (0.0022%)  
p.S826L (0.0022%)  
p.S676\* (0.0022%)  
p.Q601E (0.0022%)  
p.H129D (0.0022%)  
p.S473\* (0.0022%)  
p.E173Q (0.0022%)  
p.K617Q (0.0022%)  
p.E238= (0.0022%)  
p.R402= (0.0022%)  
p.S398C (0.0022%)  
p.I169V (0.0022%)  
p.Q397\* (0.0022%)  
p.G659A (0.0022%)  
p.I386M (0.0022%)  
p.T723I (0.0022%)  
p.P986S (0.0022%)  
p.Q873\* (0.0022%)  
p.F716Lfs\*24 (0.0022%)  
p.P439T (0.0022%)  
p.N583S (0.0022%)  
p.E467K (0.0022%)  
p.G538D (0.0022%)  
p.G410S (0.0022%)  
p.Y408Nfs\*25 (0.0022%)  
p.S380\* (0.0022%)  
p.C1077F (0.0022%)  
p.D191= (0.0022%)  
p.H1108Y (0.0022%)  
p.Q493H (0.0022%)  
p.R899W (0.0022%)  
p.L635H (0.0022%)  
p.E243Dfs\*54 (0.0022%)  
p.E402Dfs\*12 (0.0022%)  
p.K659T (0.0022%)  
p.K426Q (0.0022%)  
p.R929\* (0.0022%)  
p.K515R (0.0022%)  
p.A391T (0.0022%)  
p.R948C (0.0022%)  
p.R741Q (0.0022%)  
p.T381I (0.0022%)  
p.R117S (0.0022%)  
p.V28M (0.0022%)  
p.E658= (0.0022%)  
p.D603N (0.0022%)  
p.W345\* (0.0022%)  
p.V1016I (0.0022%)  
p.S1008\* (0.0022%)  
p.V715I (0.0022%)  
p.P766R (0.0022%)  
p.Y692H (0.0044%)  
p.G711A (0.0022%)  
p.R631T (0.0022%)  
p.C856= (0.0022%)  
p.E608\* (0.0022%)  
p.G386S (0.0022%)  
p.P82T (0.0022%)  
p.I864L (0.0022%)  
p.I322Mfs\*23 (0.0022%)  
p.N564S (0.0022%)  
p.H475Q (0.0022%)  
p.S187I (0.0022%)  
p.P17S (0.0022%)  
p.F831V (0.0088%)  
p.L504= (0.0044%)  
p.E36Q (0.0044%)  
p.T519M (0.0022%)  
p.L780M (0.0022%)  
p.I411= (0.0022%)  
p.W639\* (0.0022%)  
p.G128A (0.0022%)  
p.P232T (0.0022%)  
p.F505= (0.0022%)  
p.F687L (0.0022%)  
p.S55F (0.0022%)  
p.P44= (0.0022%)  
p.V850M (0.0022%)  
p.I229Sfs\*16 (0.0022%)  
p.R260T (0.0022%)  
p.S815L (0.0022%)  
p.N209D (0.0022%)  
p.V819A (0.0022%)  
p.S765L (0.011%)  
p.C123= (0.0044%)  
p.T295= (0.0044%)  
p.D264Y (0.0044%)  
p.E543del (0.0044%)  
p.A834T (0.0022%)  
p.K475E (0.0022%)  
p.K17N (0.0022%)  
p.F863L (0.0022%)  
p.L259= (0.0022%)  
p.E357D (0.0022%)  
p.D417Y (0.0022%)  
p.S187= (0.0022%)  
p.R719Q (0.0022%)  
p.C126Y (0.0022%)  
p.T883N (0.0022%)  
p.F295L (0.0022%)  
p.V74F (0.0022%)  
p.H305Y (0.0022%)  
p.P335S (0.0022%)  
p.Q296E (0.0022%)  
p.S259F (0.0022%)  
p.D96E (0.0022%)  
p.V46F (0.0022%)  
p.Q37\* (0.0022%)  
p.G116R (0.0022%)  
p.T812= (0.0022%)  
p.P112L (0.0022%)  
p.P677S (0.0022%)  
p.Q60H (0.0022%)  
p.I405V (0.0022%)  
p.A832V (0.0022%)  
p.Q175\* (0.0088%)  
p.T633N (0.0066%)  
p.T152I (0.0066%)  
p.A888T (0.0066%)  
p.I1019K (0.0066%)  
p.E302Sfs\*57 (0.0044%)  
p.S714F (0.0044%)  
p.S1049F (0.0044%)  
p.W50C (0.0044%)  
p.R149\* (0.0044%)  
p.S403P (0.0044%)  
p.P596= (0.0044%)  
p.L272\* (0.0044%)  
p.D339= (0.0044%)  
p.P481L (0.0044%)  
p.D199N (0.0044%)  
p.E983= (0.0044%)  
p.I1054F (0.0044%)  
p.L655\* (0.0044%)  
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p.K1352N (0.0044%)  
p.R211W (0.0044%)  
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p.L620F (0.0022%)  
p.R922\* (0.0022%)  
p.D389N (0.0022%)  
p.R1334W (0.0022%)  
p.E597Q (0.0022%)  
p.S580\* (0.0022%)  
p.H661P (0.0022%)  
p.G520= (0.0022%)  
p.G529= (0.0022%)  
p.A317T (0.0022%)  
p.S63F (0.0022%)  
p.E993K (0.0022%)  
p.D338Gfs\*2 (0.0022%)  
p.L821P (0.0022%)  
p.F1088Pfs\*3 (0.0022%)  
p.R300Q (0.0022%)  
p.R211Q (0.0022%)  
p.Q867\* (0.0022%)  
p.L349= (0.0022%)  
p.R540P (0.0022%)  
p.D501H (0.0022%)  
p.F1088Lfs\*5 (0.0022%)  
p.P820= (0.0022%)  
p.E619\* (0.0022%)  
p.E120Q (0.0022%)  
p.A447= (0.0022%)  
p.Q1328K (0.0022%)  
p.V1152L (0.0022%)  
p.G405= (0.0022%)  
p.H398R (0.0022%)  
p.F1103V (0.0022%)  
p.A187= (0.0022%)  
p.V878A (0.0022%)  
p.S394C (0.0022%)  
p.K692N (0.0022%)  
p.I1183K (0.0022%)  
p.S411= (0.0022%)  
p.F414Y (0.0022%)  
p.V66= (0.0022%)  
p.F133L (0.0022%)  
p.M1267T (0.0022%)  
p.A352= (0.0022%)  
p.Q698E (0.0022%)  
p.L281H (0.0022%)  
p.L542= (0.0022%)  
p.E604G (0.0022%)  
p.Y774Mfs\*92 (0.0022%)  
p.R139T (0.0022%)  
p.G1299C (0.0022%)  
p.K1140\* (0.0022%)  
p.C384R (0.0022%)  
p.L352V (0.0022%)  
p.P150S (0.0022%)  
p.I98T (0.0022%)  
p.P1110S (0.0022%)  
p.K888Sfs\*18 (0.0022%)  
p.R1321T (0.0022%)  
p.D465G (0.0022%)  
p.A450= (0.0022%)  
p.F325L (0.0022%)  
p.G443R (0.0022%)  
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p.V1056= (0.0022%)  
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p.W258R (0.0022%)  
p.Q731K (0.0022%)  
p.L247= (0.0022%)  
p.M123I (0.0022%)  
p.W97Xfs\*20 (0.0022%)  
p.P42S (0.0022%)  
p.R644S (0.0022%)  
p.T1008I (0.0022%)  
p.Y427= (0.0022%)  
p.R1334Q (0.0022%)  
p.R841K (0.0022%)  
p.H83Y (0.022%)  
p.S12\* (0.0088%)  
p.A102V (0.0132%)  
p.D108N (0.0088%)  
p.R58\* (0.011%)  
p.G35V (0.0088%)  
p.R80\* (0.0044%)  
p.L65= (0.0066%)  
p.P258R (0.0044%)  
p.E69\* (0.0044%)  
p.E431K (0.0044%)  
p.R138T (0.0044%)  
p.D66N (0.0044%)  
p.M53Ifs\*68 (0.0044%)  
p.M54Ifs\*67 (0.0044%)  
p.D84N (0.0044%)  
p.S12L (0.0044%)  
p.M313I (0.0044%)  
p.L64P (0.0044%)  
p.D74N (0.0044%)  
p.M53I (0.0044%)  
p.H83D (0.0044%)  
p.A76G (0.0044%)  
p.M52I (0.0044%)  
p.P81L (0.0044%)  
p.A127S (0.0044%)  
p.F191L (0.0022%)  
p.P256S (0.0044%)  
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p.G135= (0.0022%)  
p.H66R (0.0022%)  
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p.T376P (0.0022%)  
p.D6H (0.0022%)  
p.T137Hfs\*5 (0.0022%)  
p.E487A (0.0022%)  
p.P81Hfs\*70 (0.0022%)  
p.T79Pfs\*40 (0.0022%)  
p.G122V (0.0022%)  
p.T79Pfs\*67 (0.0022%)  
p.A177P (0.0022%)  
p.A109T (0.0022%)  
p.R392Q (0.0022%)  
p.G55= (0.0022%)  
p.A4\_P11del (0.0022%)  
p.L454P (0.0022%)  
p.H273Q (0.0022%)  
p.L78Dfs\*46 (0.0022%)  
p.L78Rfs\*46 (0.0022%)  
p.D452H (0.0022%)  
p.A76Pfs\*70 (0.0022%)  
p.G122Afs\*10 (0.0022%)  
p.M52K (0.0022%)  
p.V106= (0.0022%)  
p.P75L (0.0022%)  
p.A804T (0.0176%)  
p.P162T (0.0066%)  
p.R333= (0.0066%)  
p.R143L (0.0044%)  
p.L613V (0.0044%)  
p.F443L (0.0044%)  
p.M76I (0.0044%)  
p.R143W (0.0044%)  
p.R318= (0.0044%)  
p.R89T (0.0044%)  
p.L48\_S55del (0.0044%)  
p.D273Y (0.0044%)  
p.L476V (0.0044%)  
p.P985= (0.0022%)  
p.A1444V (0.0022%)  
p.N1445S (0.0022%)  
p.E2678K (0.0022%)  
p.Q571\* (0.0022%)  
p.S1123C (0.0022%)  
p.L2339= (0.0022%)  
p.E29K (0.0022%)  
p.V178I (0.0022%)  
p.S2493L (0.0022%)  
p.E9G (0.0022%)  
p.K3060R (0.0022%)  
p.T31P (0.0022%)  
p.F2525Lfs\*29 (0.0022%)  
p.L2653P (0.0022%)  
p.V226D (0.0022%)  
p.P320S (0.0022%)  
p.M2019K (0.0022%)  
p.Q66H (0.0022%)  
p.S1337C (0.0022%)  
p.P1915S (0.0022%)  
p.D2742N (0.0022%)  
p.M905K (0.0022%)  
p.E2171K (0.0022%)  
p.I4T (0.0022%)  
p.M217I (0.0022%)  
p.S1035\* (0.0022%)  
p.H460Y (0.0022%)  
p.F3113V (0.0022%)  
p.F1031L (0.0022%)  
p.R354W (0.0022%)  
p.Q253\* (0.0022%)  
p.Q807H (0.0022%)  
p.D3069\* (0.0022%)  
p.F2790L (0.0022%)  
p.S1765= (0.0022%)  
p.N71S (0.0022%)  
p.E2897K (0.0022%)  
p.E2134Q (0.0022%)  
p.E607= (0.0022%)  
p.R2103T (0.0022%)  
p.A475= (0.0022%)  
p.M2019R (0.0022%)  
p.D1168del (0.0022%)  
p.P1055= (0.0022%)  
p.P1055L (0.0022%)  
p.A119V (0.0022%)  
p.F525L (0.0022%)  
p.S1477Ffs\*17 (0.0022%)  
p.S1018C (0.0022%)  
p.P797A (0.0022%)  
p.L2257V (0.0022%)  
p.S605F (0.0022%)  
p.G1417= (0.0022%)  
p.D3149V (0.0022%)  
p.L251V (0.0022%)  
p.I551= (0.0022%)  
p.S478A (0.0022%)  
p.Q315del (0.0022%)  
p.R2697T (0.0022%)  
p.I1221T (0.0022%)  
p.A429S (0.0022%)  
p.I122V (0.0022%)  
p.F1959= (0.0022%)  
p.Q61R (0.0528%)  
p.G13R (0.0132%)  
p.L271= (0.0088%)  
p.E3K (0.0088%)  
p.R292W (0.0066%)  
p.I226M (0.0066%)  
p.E335K (0.0066%)  
p.Q398\* (0.0044%)  
p.K270N (0.0044%)  
p.D68N (0.0044%)  
p.S270C (0.0044%)  
p.A66T (0.0044%)  
p.R307W (0.0044%)  
p.V171M (0.0044%)  
p.G10A (0.0044%)  
p.D514N (0.0044%)  
p.E308\* (0.0044%)  
p.E148Nfs\*24 (0.0044%)  
p.Q903E (0.0044%)  
p.T628= (0.0022%)  
p.K61N (0.0022%)  
p.L1321M (0.0022%)  
p.K1129N (0.0022%)  
p.G2008A (0.0022%)  
p.P1486T (0.0022%)  
p.M1101V (0.0022%)  
p.L567Tfs\*12 (0.0022%)  
p.T469P (0.0022%)  
p.P633= (0.0022%)  
p.V1355G (0.0022%)  
p.E431D (0.0022%)  
p.I210V (0.0022%)  
p.P90= (0.0022%)  
p.M697K (0.0022%)  
p.P1314= (0.0022%)  
p.L1346= (0.0022%)  
p.V1022= (0.0022%)  
p.D457V (0.0022%)  
p.A1496V (0.0022%)  
p.V9G (0.0022%)  
p.V1048= (0.0022%)  
p.I138S (0.0022%)  
p.T1430A (0.0022%)  
p.R292Q (0.0022%)  
p.Q156\* (0.0022%)  
p.G77S (0.0022%)  
p.V1424I (0.0022%)  
p.E1145Q (0.0022%)  
p.S794F (0.0022%)  
p.N1350D (0.0022%)  
p.D286H (0.0022%)  
p.L113S (0.0022%)  
p.F645= (0.0022%)  
p.G754E (0.0022%)  
p.T2016= (0.0022%)  
p.L336F (0.0022%)  
p.E344Q (0.0022%)  
p.S113F (0.0022%)  
p.F120\_D132delinsY (0.0022%)  
p.A1044V (0.0022%)  
p.L188F (0.0022%)  
p.A463V (0.0022%)  
p.F90C (0.0022%)  
p.T449M (0.0022%)  
p.S397F (0.0022%)  
p.P1378L (0.0022%)  
p.T1316P (0.0022%)  
p.D279N (0.0022%)  
p.H1284D (0.0022%)  
p.S1564F (0.0022%)  
p.F1468= (0.0022%)  
p.S1789C (0.0022%)  
p.I97F (0.0022%)  
p.L307= (0.0022%)  
p.Y32= (0.0022%)  
p.Q417\* (0.0022%)  
p.N66S (0.0022%)  
p.R130S (0.0022%)  
p.I233Nfs\*5 (0.0022%)  
p.L188= (0.0022%)  
p.H337L (0.0022%)  
p.P447Sfs\*8 (0.0022%)  
p.Y285F (0.0022%)  
p.E31\* (0.0022%)  
p.N235K (0.0022%)  
p.F458S (0.0022%)  
p.D132E (0.0022%)  
p.T394Qfs\*10 (0.0022%)  
p.S375F (0.0022%)  
p.T771= (0.0022%)  
p.P371= (0.0022%)  
p.I226L (0.0022%)  
p.P25L (0.0022%)  
p.D38Y (0.0022%)  
p.I163= (0.0022%)  
p.R102Q (0.0022%)  
p.L768= (0.0022%)  
p.E71K (0.0022%)  
p.T50A (0.0022%)  
p.R106G (0.0022%)  
p.V382= (0.0022%)  
p.S1307F (0.0022%)  
p.P226R (0.0022%)  
p.A1392V (0.0022%)  
p.R127\* (0.0022%)  
p.N1274= (0.0022%)  
p.Q1063E (0.0022%)  
p.I203T (0.0022%)  
p.Q166\* (0.0022%)  
p.A479V (0.0022%)  
p.G321\* (0.0022%)  
p.L402F (0.0022%)  
p.I357V (0.0022%)  
p.K745= (0.0022%)  
p.G477A (0.0022%)  
p.Q482\* (0.0022%)  
p.L101\* (0.0022%)  
p.G13V (0.0022%)  
p.L644S (0.0022%)  
p.G424A (0.0022%)  
p.R491Q (0.0022%)  
p.Y393C (0.0022%)  
p.R362G (0.0088%)  
p.Y419= (0.0088%)  
p.L423= (0.0044%)  
p.E382K (0.0066%)  
p.E118Q (0.0066%)  
p.H13N (0.0066%)  
p.E231K (0.0066%)  
p.A360S (0.0044%)  
p.S216= (0.0044%)  
p.Q141E (0.0044%)  
p.E351Q (0.0044%)  
p.D17N (0.0044%)  
p.E418= (0.0044%)  
p.M424I (0.0044%)  
p.R3Q (0.0044%)  
p.A360= (0.0044%)  
p.C403Gfs\*4 (0.0044%)  
p.D179Y (0.0044%)  
p.L87I (0.0044%)  
p.S413G (0.0044%)  
p.E419G (0.0044%)  
p.E81\* (0.0044%)  
p.Q27\* (0.0044%)  
p.L123F (0.0022%)  
p.S3C (0.0044%)  
p.V241L (0.0044%)  
p.E360= (0.0044%)  
p.D243H (0.0044%)  
p.R526Q (0.0022%)  
p.C147Y (0.0022%)  
p.I217= (0.0022%)  
p.L439V (0.0022%)  
p.Q690E (0.0022%)  
p.H388R (0.0022%)  
p.T182S (0.0022%)  
p.R188W (0.0022%)  
p.F353C (0.0022%)  
p.T328= (0.0022%)  
p.A318= (0.0022%)  
p.R3W (0.0022%)  
p.E298K (0.0022%)  
p.L321Ffs\*52 (0.0022%)  
p.P228T (0.0022%)  
p.R332G (0.0022%)  
p.A694= (0.0022%)  
p.L234= (0.0022%)  
p.Q294= (0.0022%)  
p.G457R (0.0022%)  
p.G457E (0.0022%)  
p.G137= (0.0022%)  
p.S114Y (0.0022%)  
p.S269L (0.0022%)  
p.R343C (0.0022%)  
p.D245Y (0.0022%)  
p.E527D (0.0022%)  
p.Q491= (0.0022%)  
p.L369= (0.0022%)  
p.S422C (0.0022%)  
p.N177= (0.0022%)  
p.E442G (0.0022%)  
p.D373= (0.0022%)  
p.R95\* (0.0022%)  
p.R208H (0.0022%)  
p.M344I (0.0022%)  
p.D195N (0.0022%)  
p.E419K (0.0022%)  
p.L96I (0.0022%)  
p.N196= (0.0022%)  
p.K535N (0.0022%)  
p.P347R (0.0022%)  
p.P434= (0.0022%)  
p.E518K (0.0022%)  
p.S161\* (0.0022%)  
p.W93S (0.0022%)  
p.R391C (0.0022%)  
p.I319N (0.0022%)  
p.A385= (0.0022%)  
p.T217= (0.0022%)  
p.P403= (0.0022%)  
p.E418Q (0.0022%)  
p.P188L (0.0022%)  
p.R332C (0.0022%)  
p.N290= (0.0022%)  
p.K191R (0.0022%)  
p.S689C (0.0022%)  
p.Y419H (0.0022%)  
p.I314= (0.0022%)  
p.S372\* (0.0022%)  
p.S39G (0.0022%)  
p.D77H (0.0022%)  
p.D246E (0.0022%)  
p.R389C (0.0022%)  
p.H125D (0.0022%)  
p.R271W (0.0022%)  
p.D248Y (0.0022%)  
p.E331\* (0.0022%)  
p.S267N (0.0022%)  
p.V2L (0.0022%)  
p.S182F (0.0022%)  
p.S226W (0.0022%)  
p.T375P (0.0022%)  
p.H25Y (0.0022%)  
p.Q476\* (0.0022%)  
p.P41A (0.0022%)  
p.E527K (0.0022%)  
p.T559Nfs\*26 (0.0022%)  
p.R568M (0.0022%)  
p.Q476E (0.0022%)  
p.L234V (0.0022%)  
p.R425T (0.0022%)  
p.P21S (0.0022%)  
p.E282= (0.0022%)  
p.I200T (0.0022%)  
p.E500Rfs\*33 (0.0022%)  
p.Q174= (0.0088%)  
p.E142K (0.0088%)  
p.I477T (0.0066%)  
p.E639K (0.0044%)  
p.S548L (0.0044%)  
p.K611\* (0.0044%)  
p.D460N (0.0044%)  
p.E534\* (0.0044%)  
p.A193T (0.0022%)  
p.K51T (0.0022%)  
p.R559P (0.0022%)  
p.W597R (0.0022%)  
p.M262I (0.0022%)  
p.V595A (0.0022%)  
p.S89A (0.0022%)  
p.G590= (0.0022%)  
p.R366H (0.0022%)  
p.E99D (0.0022%)  
p.R82G (0.0022%)  
p.V595= (0.0022%)  
p.W455\* (0.0022%)  
p.E658K (0.0022%)  
p.K94E (0.0022%)  
p.A656G (0.0022%)  
p.V461M (0.0022%)  
p.S214Y (0.0022%)  
p.C667= (0.0022%)  
p.E227K (0.0022%)  
p.M312K (0.0022%)  
p.Q1116E (0.0022%)  
p.E534K (0.0066%)  
p.E689Q (0.0066%)  
p.A758Vfs\*8 (0.0066%)  
p.R737\* (0.0044%)  
p.E450K (0.0044%)  
p.E592K (0.0044%)  
p.S322F (0.0044%)  
p.D832N (0.0044%)  
p.R827I (0.0044%)  
p.Q407\* (0.0044%)  
p.E116Q (0.0044%)  
p.R1081\* (0.0044%)  
p.E817K (0.0044%)  
p.N999D (0.0022%)  
p.R838G (0.0022%)  
p.D889G (0.0022%)  
p.E753K (0.0022%)  
p.P1028A (0.0022%)  
p.E753D (0.0022%)  
p.S818G (0.0022%)  
p.E957Q (0.0022%)  
p.S321T (0.0022%)  
p.D1043N (0.0022%)  
p.L743del (0.0022%)  
p.R1125C (0.0022%)  
p.T367S (0.0022%)  
p.A20Gfs\*20 (0.0022%)  
p.R737L (0.0022%)  
p.S162N (0.0022%)  
p.Q959H (0.0022%)  
p.Y1076C (0.0022%)  
p.R995C (0.0022%)  
p.I74F (0.011%)  
p.G679Efs\*30 (0.0088%)  
p.E572K (0.0088%)  
p.C797F (0.0044%)  
p.T1429= (0.0066%)  
p.E259K (0.0066%)  
p.E393K (0.0066%)  
p.L921P (0.0066%)  
p.R699C (0.0066%)  
p.N24S (0.0022%)  
p.D1243E (0.0044%)  
p.T20S (0.0044%)  
p.D190N (0.0044%)  
p.S1011L (0.0044%)  
p.P446S (0.0044%)  
p.E480K (0.0044%)  
p.E1002G (0.0044%)  
p.S580P (0.0044%)  
p.P241A (0.0044%)  
p.E383K (0.0044%)  
p.K361M (0.0044%)  
p.D620H (0.0022%)  
p.A612T (0.0044%)  
p.P1092L (0.0044%)  
p.G832D (0.0044%)  
p.P1000A (0.0044%)  
p.G470D (0.0044%)  
p.S441F (0.0044%)  
p.E1099K (0.0044%)  
p.I198M (0.0044%)  
p.P746L (0.0044%)  
p.D694H (0.0044%)  
p.S237L (0.0022%)  
p.Q504P (0.0022%)  
p.L718= (0.0022%)  
p.R881\* (0.0022%)  
p.Q565H (0.0022%)  
p.A29P (0.0022%)  
p.P1590= (0.0022%)  
p.D219N (0.0022%)  
p.L449R (0.0022%)  
p.G478V (0.0022%)  
p.G924V (0.0022%)  
p.E280Q (0.0022%)  
p.P250= (0.0022%)  
p.T1210= (0.0022%)  
p.H352Y (0.0022%)  
p.Q495E (0.0022%)  
p.C1233= (0.0022%)  
p.A978G (0.0022%)  
p.W1468L (0.0022%)  
p.L906= (0.0022%)  
p.L1036P (0.0022%)  
p.Y717= (0.0022%)  
p.K330\* (0.0022%)  
p.L100I (0.0022%)  
p.R86C (0.0022%)  
p.S1235Y (0.0022%)  
p.S1002P (0.0022%)  
p.E283Q (0.0022%)  
p.S38\* (0.0022%)  
p.G440E (0.0022%)  
p.Q287K (0.0022%)  
p.H205Y (0.0022%)  
p.P445= (0.0022%)  
p.F463L (0.0022%)  
p.D1168N (0.0022%)  
p.M999I (0.0022%)  
p.P426= (0.0022%)  
p.A234= (0.0022%)  
p.D552E (0.0022%)  
p.A630V (0.0022%)  
p.S386N (0.0022%)  
p.D972N (0.0022%)  
p.E35K (0.0022%)  
p.L597W (0.0022%)  
p.L791M (0.0022%)  
p.L1298= (0.0022%)  
p.K530= (0.0022%)  
p.D927Y (0.0022%)  
p.K875M (0.0022%)  
p.A261V (0.0022%)  
p.D78N (0.0022%)  
p.F700= (0.0022%)  
p.R862M (0.0022%)  
p.Q1098\* (0.0022%)  
p.P1077= (0.0022%)  
p.E390V (0.0022%)  
p.D1123H (0.0022%)  
p.M341I (0.0022%)  
p.N1130D (0.0022%)  
p.A56= (0.0022%)  
p.G945A (0.0022%)  
p.P353S (0.0022%)  
p.I607M (0.0022%)  
p.P823A (0.0022%)  
p.P71S (0.0022%)  
p.D430G (0.0022%)  
p.S56G (0.0022%)  
p.L521R (0.0022%)  
p.D927N (0.0022%)  
p.L701V (0.0022%)  
p.L454F (0.0022%)  
p.T1111M (0.0022%)  
p.P676R (0.0022%)  
p.A530= (0.0022%)  
p.R1364H (0.0022%)  
p.D420N (0.0022%)  
p.E559K (0.0022%)  
p.F64Y (0.0022%)  
p.Y262H (0.0022%)  
p.A593T (0.0022%)  
p.A1661S (0.0022%)  
p.Q888H (0.0022%)  
p.T41= (0.0022%)  
p.D831= (0.0022%)  
p.A211= (0.0022%)  
p.A1104= (0.0022%)  
p.D330A (0.0022%)  
p.P750A (0.0022%)  
p.F347C (0.0022%)  
p.T587N (0.0022%)  
p.R871\* (0.0022%)  
p.G1014= (0.0022%)  
p.R137C (0.0022%)  
p.H913R (0.0022%)  
p.G1319R (0.0022%)  
p.T1490= (0.0022%)  
p.R574W (0.0022%)  
p.L236= (0.0022%)  
p.A565D (0.0022%)  
p.P1018L (0.0022%)  
p.I813Yfs\*74 (0.0022%)  
p.T345M (0.0022%)  
p.K171del (0.0022%)  
p.I1068M (0.0022%)  
p.A74Qfs\*42 (0.0022%)  
p.R1236K (0.0022%)  
p.D698Y (0.0022%)  
p.R699H (0.0022%)  
p.R631= (0.0022%)  
p.R944Q (0.0022%)  
p.Q714E (0.0022%)  
p.P336L (0.0022%)  
p.R890Q (0.0022%)  
p.S1143= (0.0022%)  
p.S834del (0.0022%)  
p.Q1191K (0.0022%)  
p.M587T (0.0022%)  
p.G168= (0.0022%)  
p.C108\* (0.0022%)  
p.A373V (0.0022%)  
p.E1670K (0.0022%)  
p.C828= (0.0022%)  
p.F1066= (0.0022%)  
p.I520N (0.0022%)  
p.D537Afs\*4 (0.0022%)  
p.L409= (0.0022%)  
p.T325N (0.0022%)  
p.Q929\* (0.0022%)  
p.R415Q (0.011%)  
p.R274Q (0.011%)  
p.S326\* (0.0088%)  
p.K341R (0.0066%)  
p.S1117Kfs\*34 (0.0066%)  
p.P574= (0.0066%)  
p.P1076T (0.0066%)  
p.G623E (0.0066%)  
p.S950L (0.0066%)  
p.S1104T (0.0044%)  
p.L332= (0.0044%)  
p.L1134V (0.0044%)  
p.L174= (0.0044%)  
p.P514= (0.0044%)  
p.R1214Q (0.0044%)  
p.A536V (0.0044%)  
p.Q994\* (0.0044%)  
p.P896L (0.0044%)  
p.E469Q (0.0044%)  
p.M711V (0.0044%)  
p.G365V (0.0044%)  
p.G136\* (0.0044%)  
p.R716W (0.0044%)  
p.I231M (0.0044%)  
p.Q1008R (0.0044%)  
p.R6G (0.0044%)  
p.A1051Rfs\*100 (0.0044%)  
p.S72N (0.0022%)  
p.A878= (0.0022%)  
p.A125T (0.0022%)  
p.E1255Q (0.0022%)  
p.F103L (0.0022%)  
p.S1267I (0.0022%)  
p.E215Rfs\*9 (0.0022%)  
p.V169G (0.0022%)  
p.G624E (0.0022%)  
p.S1267N (0.0022%)  
p.A2S (0.0022%)  
p.W1239R (0.0022%)  
p.G170= (0.0022%)  
p.H532R (0.0022%)  
p.D433N (0.0022%)  
p.R1384Q (0.0022%)  
p.R70Q (0.0022%)  
p.L712\* (0.0022%)  
p.P535L (0.0022%)  
p.G189\* (0.0022%)  
p.E129\* (0.0022%)  
p.S1001F (0.0022%)  
p.R87W (0.0022%)  
p.P391S (0.0022%)  
p.T1408I (0.0022%)  
p.Y1497F (0.0022%)  
p.G25Rfs\*86 (0.0022%)  
p.V267I (0.0022%)  
p.A582P (0.0022%)  
p.S721C (0.0022%)  
p.L595= (0.0022%)  
p.E582Dfs\*7 (0.0022%)  
p.P1188S (0.0022%)  
p.G221D (0.0022%)  
p.P858S (0.0022%)  
p.S344C (0.0022%)  
p.S369L (0.0022%)  
p.L592M (0.0022%)  
p.R1512C (0.0022%)  
p.T569= (0.0022%)  
p.P578A (0.0022%)  
p.R599= (0.0022%)  
p.Q74Nfs\*14 (0.0022%)  
p.C198W (0.0022%)  
p.P1248Hfs\*54 (0.0022%)  
p.P884T (0.0022%)  
p.M157T (0.0022%)  
p.P911L (0.0022%)  
p.R76T (0.0022%)  
p.D364= (0.0022%)  
p.S12C (0.0022%)  
p.A652T (0.0022%)  
p.E582K (0.0022%)  
p.E52K (0.0022%)  
p.V384D (0.0308%)  
p.E69K (0.0088%)  
p.V479F (0.0088%)  
p.E69D (0.0088%)  
p.L529V (0.0066%)  
p.V613= (0.0066%)  
p.E439\* (0.0066%)  
p.E277\* (0.0044%)  
p.Q4\* (0.0044%)  
p.I56F (0.0044%)  
p.D584H (0.0044%)  
p.V7I (0.0044%)  
p.K650del (0.0044%)  
p.R654\* (0.0044%)  
p.A72T (0.0044%)  
p.I262V (0.0044%)  
p.D146Y (0.0022%)  
p.V14M (0.0022%)  
p.W714C (0.0022%)  
p.D296= (0.0022%)  
p.M319L (0.0022%)  
p.\*757Kext\*36 (0.0022%)  
p.A111P (0.0022%)  
p.R502W (0.0022%)  
p.V110L (0.0022%)  
p.A380A (0.0022%)  
p.T73S (0.0022%)  
p.M144I (0.0022%)  
p.D162= (0.0022%)  
p.R113K (0.0022%)  
p.E102\* (0.0022%)  
p.D629N (0.0022%)  
p.F285S (0.0022%)  
p.W6C (0.0022%)  
p.E433Q (0.0022%)  
p.E515= (0.0022%)  
p.E110= (0.0022%)  
p.L393I (0.0022%)  
p.G507V (0.0022%)  
p.M35I (0.0022%)  
p.R163del (0.0022%)  
p.N308S (0.0022%)  
p.E89K (0.0022%)  
p.E76K (0.0022%)  
p.Y245\* (0.0022%)  
p.S731\* (0.0022%)  
p.E671K (0.0022%)  
p.H733R (0.0022%)  
p.Q95H (0.0022%)  
p.G163A (0.0022%)  
p.P709Q (0.0022%)  
p.Y117Cfs\*24 (0.0022%)  
p.D631H (0.0022%)  
p.D303H (0.0022%)  
p.R531H (0.0022%)  
p.S506L (0.0022%)  
p.A72V (0.0022%)  
p.S406N (0.0022%)  
p.T495A (0.0022%)  
p.N58S (0.0022%)  
p.K134I (0.0022%)  
p.G691= (0.0022%)  
p.N222S (0.0022%)  
p.R10= (0.0022%)  
p.S556Rfs\*14 (0.0022%)  
p.R75\* (0.011%)  
p.S459L (0.0066%)  
p.S636F (0.0066%)  
p.E185K (0.0066%)  
p.Q795= (0.0044%)  
p.Q900E (0.0044%)  
p.H58Y (0.0044%)  
p.L413P (0.0044%)  
p.P860A (0.0044%)  
p.G402S (0.0044%)  
p.L581V (0.0044%)  
p.R685= (0.0022%)  
p.S449Y (0.0022%)  
p.K1766R (0.0022%)  
p.D51H (0.0022%)  
p.L957= (0.0022%)  
p.P1962Hfs\*2 (0.0022%)  
p.I167= (0.0022%)  
p.K669T (0.0022%)  
p.L434= (0.0022%)  
p.L724P (0.0022%)  
p.V637M (0.0022%)  
p.Q240H (0.0022%)  
p.H410R (0.0022%)  
p.M28V (0.0022%)  
p.I653F (0.0022%)  
p.N400S (0.0022%)  
p.I452F (0.0022%)  
p.R53= (0.0022%)  
p.L1570S (0.0022%)  
p.L18V (0.0022%)  
p.I339M (0.0022%)  
p.E1205= (0.0022%)  
p.R729= (0.0022%)  
p.N739K (0.0022%)  
p.M402I (0.0022%)  
p.F390L (0.0022%)  
p.D1918N (0.0022%)  
p.E556Q (0.0022%)  
p.F384Y (0.0022%)  
p.L10V (0.0022%)  
p.I589M (0.0022%)  
p.S374L (0.0022%)  
p.S465A (0.0022%)  
p.G28S (0.0022%)  
p.K966= (0.0022%)  
p.Q14E (0.0022%)  
p.F1958Lfs\*16 (0.0022%)  
p.Q291\* (0.0022%)  
p.G1197E (0.0022%)  
p.P1943= (0.0022%)  
p.N87\_I88del (0.0022%)  
p.W564C (0.0022%)  
p.K1213N (0.0022%)  
p.K626N (0.0022%)  
p.R423Q (0.0022%)  
p.G380Ifs\*5 (0.0022%)  
p.R253L (0.0022%)  
p.P255L (0.0022%)  
p.K591N (0.0022%)  
p.M716T (0.0022%)  
p.D462G (0.0022%)  
p.V619L (0.0022%)  
p.C712G (0.0022%)  
p.R1494= (0.0022%)  
p.K47\* (0.0022%)  
p.D723N (0.0022%)  
p.R126C (0.0022%)  
p.P496T (0.0022%)  
p.I653V (0.0022%)  
p.I711L (0.0022%)  
p.Q542Vfs\*10 (0.0022%)  
p.I63V (0.0022%)  
p.G530del (0.0022%)  
p.R152= (0.0022%)  
p.V795A (0.0022%)  
p.A473S (0.0022%)  
p.W562R (0.0022%)  
p.F354L (0.0396%)  
p.S607L (0.0154%)  
p.Q152Rfs\*9 (0.011%)  
p.R219C (0.011%)  
p.K84del (0.0088%)  
p.K84\* (0.0088%)  
p.I47V (0.0066%)  
p.Y60\* (0.0066%)  
p.P221L (0.0066%)  
p.G659Vfs\*41 (0.0044%)  
p.T204A (0.0044%)  
p.C151\* (0.0022%)  
p.D355N (0.0044%)  
p.P281Rfs\*6 (0.0044%)  
p.E165\* (0.0044%)  
p.S766L (0.0044%)  
p.M392I (0.0044%)  
p.W194S (0.0044%)  
p.Q159\* (0.0044%)  
p.F157Y (0.0044%)  
p.L140P (0.0044%)  
p.I141V (0.0044%)  
p.A365T (0.0022%)  
p.L418M (0.0022%)  
p.D628N (0.0022%)  
p.T245N (0.0022%)  
p.L17R (0.0022%)  
p.C91Y (0.0022%)  
p.G263E (0.0022%)  
p.P294L (0.0022%)  
p.L61M (0.0022%)  
p.L245F (0.0022%)  
p.E33K (0.0022%)  
p.E753Q (0.0022%)  
p.P192L (0.0022%)  
p.K78N (0.0022%)  
p.F219= (0.0022%)  
p.Y351N (0.0022%)  
p.N259S (0.0022%)  
p.Q302H (0.0022%)  
p.S283C (0.0022%)  
p.K514Sfs\*9 (0.0022%)  
p.A35S (0.0022%)  
p.W308C (0.0022%)  
p.M51\_L54del (0.0022%)  
p.F298Sfs\*38 (0.0022%)  
p.L282Xfs\*3 (0.0022%)  
p.Q123\* (0.0022%)  
p.D53Tfs\*11 (0.0022%)  
p.Y292D (0.0022%)  
p.P275L (0.0022%)  
p.E57Sfs\*107 (0.0022%)  
p.V764L (0.0022%)  
p.T189Qfs\*75 (0.0022%)  
p.C60\_I75dup (0.0088%)  
p.I289M (0.0066%)  
p.E405Q (0.0066%)  
p.E356K (0.0044%)  
p.L410I (0.0044%)  
p.R176S (0.0044%)  
p.D293Y (0.0044%)  
p.L12= (0.0044%)  
p.A330= (0.0022%)  
p.F359= (0.0022%)  
p.W334G (0.0022%)  
p.L78\_Q79insGRDPTPLSYAAW (0.0022%)  
p.R67\_L78dup (0.0022%)  
p.I75\_R76insAS\*\*RPRGRDPTPLS\* (0.0022%)  
p.A179Pfs\*2 (0.0022%)  
p.R25Tfs\*22 (0.0022%)  
p.W333\* (0.0022%)  
p.R170L (0.0022%)  
p.L155F (0.0022%)  
p.G17E (0.0573%)  
p.E2K (0.0088%)  
p.G17A (0.0066%)  
p.N1654D (0.0066%)  
p.T1565S (0.0066%)  
p.P89R (0.0066%)  
p.S352R (0.0066%)  
p.R5W (0.0066%)  
p.A616= (0.0044%)  
p.E359\* (0.0044%)  
p.E517K (0.0044%)  
p.Y42C (0.0022%)  
p.L433F (0.0044%)  
p.D655H (0.0044%)  
p.F900L (0.0044%)  
p.R421T (0.0044%)  
p.R153P (0.0044%)  
p.E40Q (0.0044%)  
p.S764= (0.0044%)  
p.D650H (0.0044%)  
p.E631Kfs\*4 (0.0044%)  
p.Q81\* (0.0044%)  
p.E397G (0.0044%)  
p.C83Y (0.0044%)  
p.T534= (0.0044%)  
p.K118N (0.0044%)  
p.E725K (0.0044%)  
p.G914Rfs\*26 (0.0044%)  
p.G62R (0.0044%)  
p.S662P (0.0044%)  
p.T316M (0.0044%)  
p.R86H (0.0044%)  
p.Y2205= (0.0022%)  
p.L580I (0.0022%)  
p.L801I (0.0022%)  
p.S356Y (0.0022%)  
p.A341S (0.0022%)  
p.L494S (0.0022%)  
p.S574C (0.0022%)  
p.E291\* (0.0022%)  
p.G420R (0.0022%)  
p.E721Q (0.0022%)  
p.D602V (0.0022%)  
p.W381G (0.0022%)  
p.E359K (0.0022%)  
p.R8\* (0.0022%)  
p.T2053S (0.0022%)  
p.V2301I (0.0022%)  
p.S837G (0.0022%)  
p.M410Wfs\*39 (0.0022%)  
p.S188Ifs\*30 (0.0022%)  
p.A589T (0.0022%)  
p.H1620Qfs\*2 (0.0022%)  
p.Q1944E (0.0022%)  
p.K102= (0.0022%)  
p.S1100= (0.0022%)  
p.F1681= (0.0022%)  
p.R168= (0.0022%)  
p.Q352E (0.0022%)  
p.S603= (0.0022%)  
p.L392S (0.0022%)  
p.S1336Y (0.0022%)  
p.D146H (0.0022%)  
p.L118I (0.0022%)  
p.F455L (0.0022%)  
p.L2313V (0.0022%)  
p.F203del (0.0022%)  
p.E761Q (0.0022%)  
p.I729= (0.0022%)  
p.V723L (0.0022%)  
p.P1936= (0.0022%)  
p.M826T (0.0022%)  
p.I1636M (0.0022%)  
p.E907Q (0.0022%)  
p.S910L (0.0022%)  
p.S741T (0.0022%)  
p.Y134C (0.0022%)  
p.L1729= (0.0022%)  
p.W193C (0.0022%)  
p.P865L (0.0022%)  
p.R5Q (0.0022%)  
p.D2114H (0.0022%)  
p.S1786C (0.0022%)  
p.K820R (0.0022%)  
p.D1589H (0.0022%)  
p.E1771Q (0.0022%)  
p.L583= (0.0022%)  
p.R267C (0.0022%)  
p.R649T (0.0022%)  
p.Q188E (0.0022%)  
p.Q1243E (0.0022%)  
p.L384= (0.0022%)  
p.L695F (0.0022%)  
p.L752= (0.0022%)  
p.M778I (0.0022%)  
p.P790Qfs\*28 (0.0022%)  
p.K1701= (0.0022%)  
p.R340\* (0.0022%)  
p.Y1947\* (0.0022%)  
p.E1579D (0.0022%)  
p.N1806Kfs\*2 (0.0022%)  
p.L69\* (0.0022%)  
p.R1897T (0.0022%)  
p.K2172N (0.0022%)  
p.E1739K (0.0022%)  
p.D493E (0.0022%)  
p.S678F (0.0022%)  
p.I369T (0.0022%)  
p.S468N (0.0022%)  
p.K1329Q (0.0022%)  
p.K480M (0.0022%)  
p.E1535Q (0.0022%)  
p.L1764F (0.0022%)  
p.K409= (0.0022%)  
p.F851V (0.0022%)  
p.L408V (0.0022%)  
p.D28H (0.0022%)  
p.R589W (0.0022%)  
p.S530L (0.0022%)  
p.I1698L (0.0022%)  
p.V797G (0.0022%)  
p.E873= (0.0022%)  
p.T662N (0.0022%)  
p.E1795del (0.0022%)  
p.E1800Q (0.0022%)  
p.N535K (0.0198%)  
p.V550M (0.0198%)  
p.V550L (0.0154%)  
p.Y367C (0.0088%)  
p.E227Q (0.0066%)  
p.T257= (0.0044%)  
p.I101= (0.0044%)  
p.R710Q (0.0044%)  
p.S559L (0.0044%)  
p.D566H (0.0044%)  
p.S431Y (0.0044%)  
p.V590F (0.0044%)  
p.Q538E (0.0044%)  
p.S123C (0.0044%)  
p.I640T (0.0044%)  
p.S409F (0.0044%)  
p.R391Q (0.0044%)  
p.S172L (0.0044%)  
p.A387Pfs\*64 (0.0044%)  
p.L185R (0.0044%)  
p.P326S (0.0044%)  
p.A460T (0.0044%)  
p.R565Q (0.0044%)  
p.M211I (0.0044%)  
p.E90K (0.0044%)  
p.D594Y (0.0044%)  
p.E248= (0.0022%)  
p.P293= (0.0022%)  
p.G388R (0.0022%)  
p.E117\* (0.0022%)  
p.Q153P (0.0022%)  
p.W464C (0.0022%)  
p.Y99\* (0.0022%)  
p.H417P (0.0022%)  
p.C82= (0.0022%)  
p.A257V (0.0022%)  
p.D215H (0.0022%)  
p.I527= (0.0022%)  
p.T484Pfs\*28 (0.0022%)  
p.E681= (0.0022%)  
p.K111= (0.0022%)  
p.R347T (0.0022%)  
p.C204Y (0.0022%)  
p.E364G (0.0022%)  
p.E437K (0.0022%)  
p.I640M (0.0022%)  
p.S162F (0.0022%)  
p.L163= (0.0022%)  
p.L229M (0.0022%)  
p.D266= (0.0022%)  
p.S767F (0.0022%)  
p.H209Y (0.0022%)  
p.V323G (0.0022%)  
p.D282H (0.0022%)  
p.K460Xfs\*6 (0.0022%)  
p.S440P (0.0022%)  
p.E283Rfs\*3 (0.0022%)  
p.S410= (0.0022%)  
p.R398Q (0.0022%)  
p.L446= (0.0022%)  
p.E283K (0.0022%)  
p.D575= (0.0022%)  
p.Q212= (0.0022%)  
p.E741Rfs\*19 (0.0022%)  
p.L269= (0.0022%)  
p.L537Vfs\*11 (0.0022%)  
p.T396A (0.0022%)  
p.K460R (0.0022%)  
p.A484T (0.0022%)  
p.V451I (0.0022%)  
p.V750I (0.0022%)  
p.R74Q (0.0022%)  
p.C271\* (0.0022%)  
p.I235V (0.0022%)  
p.T164= (0.0022%)  
p.K169N (0.0022%)  
p.Y319\* (0.0022%)  
p.P485S (0.0022%)  
p.G11Afs\*85 (0.0022%)  
p.R78H (0.0022%)  
p.R299Q (0.0022%)  
p.A458= (0.0022%)  
p.G576A (0.0022%)  
p.E163Q (0.0088%)  
p.R761Q (0.0088%)  
p.V341M (0.0066%)  
p.Q409\* (0.0066%)  
p.R52C (0.0066%)  
p.L244P (0.0066%)  
p.L641M (0.0022%)  
p.V393= (0.0044%)  
p.S243L (0.0044%)  
p.R434H (0.0044%)  
p.F244L (0.0044%)  
p.T358M (0.0044%)  
p.M464I (0.0044%)  
p.P135A (0.0044%)  
p.E697K (0.0044%)  
p.A629= (0.0022%)  
p.S371F (0.0022%)  
p.P695L (0.0022%)  
p.V198D (0.0022%)  
p.S588Afs\*6 (0.0022%)  
p.R369\* (0.0022%)  
p.G487E (0.0022%)  
p.R583H (0.0022%)  
p.A636V (0.0022%)  
p.A548= (0.0022%)  
p.R780Q (0.0022%)  
p.I450= (0.0022%)  
p.H298Q (0.0022%)  
p.A336E (0.0022%)  
p.D292= (0.0022%)  
p.K400N (0.0022%)  
p.G517V (0.0022%)  
p.W306R (0.0022%)  
p.S287I (0.0022%)  
p.E443Rfs\*24 (0.0022%)  
p.H230Y (0.0022%)  
p.R501C (0.0022%)  
p.R157C (0.0022%)  
p.Q626K (0.0022%)  
p.R342Q (0.0022%)  
p.G321A (0.0022%)  
p.\*518Sext\*22 (0.0022%)  
p.P695= (0.0022%)  
p.R370H (0.0022%)  
p.G599R (0.0022%)  
p.F493Vfs\*7 (0.0022%)  
p.K133E (0.0022%)  
p.D209H (0.0022%)  
p.V282I (0.0022%)  
p.T231= (0.0022%)  
p.S588Qfs\*4 (0.0022%)  
p.T264= (0.0022%)  
p.A313\_G317del (0.0022%)  
p.L96V (0.0022%)  
p.G31E (0.011%)  
p.E158K (0.011%)  
p.D382N (0.0066%)  
p.E472K (0.0066%)  
p.Q710L (0.0066%)  
p.I447M (0.0066%)  
p.P694Lfs\*82 (0.0066%)  
p.E79del (0.0066%)  
p.R317Q (0.0066%)  
p.L23del (0.0066%)  
p.N1015= (0.0044%)  
p.D1018Y (0.0044%)  
p.Q745\* (0.0044%)  
p.L200V (0.0044%)  
p.D202H (0.0044%)  
p.S110L (0.0044%)  
p.E284Q (0.0044%)  
p.D283N (0.0044%)  
p.R161W (0.0044%)  
p.R43G (0.0044%)  
p.A492G (0.0044%)  
p.Y581N (0.0044%)  
p.M532T (0.0044%)  
p.G31R (0.0044%)  
p.I214M (0.0044%)  
p.A612V (0.0044%)  
p.Q26K (0.0044%)  
p.L12F (0.0044%)  
p.R788\* (0.0044%)  
p.R398\* (0.0044%)  
p.P903Lfs\*7 (0.0044%)  
p.D776N (0.0022%)  
p.S320C (0.0022%)  
p.K394Q (0.0022%)  
p.P37A (0.0022%)  
p.D224H (0.0022%)  
p.H361P (0.0022%)  
p.S301= (0.0022%)  
p.N663= (0.0022%)  
p.I408V (0.0022%)  
p.P600= (0.0022%)  
p.I28del (0.0022%)  
p.V973G (0.0022%)  
p.G1093R (0.0022%)  
p.I215M (0.0022%)  
p.G415A (0.0022%)  
p.K564= (0.0022%)  
p.S190L (0.0022%)  
p.H620Y (0.0022%)  
p.L557= (0.0022%)  
p.K539N (0.0022%)  
p.E1071K (0.0022%)  
p.F787= (0.0022%)  
p.D122G (0.0022%)  
p.S313F (0.0022%)  
p.T433I (0.0022%)  
p.G497R (0.0022%)  
p.T307I (0.0022%)  
p.Q516\* (0.0022%)  
p.R251C (0.0022%)  
p.E439K (0.0022%)  
p.T882I (0.0022%)  
p.E609G (0.0022%)  
p.P58A (0.0022%)  
p.H596= (0.0022%)  
p.P442= (0.0022%)  
p.P768S (0.0022%)  
p.D786N (0.0022%)  
p.M234I (0.0022%)  
p.D453E (0.0022%)  
p.L476M (0.0022%)  
p.Q555= (0.0022%)  
p.G149Sfs\*6 (0.0022%)  
p.E79Q (0.0022%)  
p.A124G (0.0022%)  
p.R332= (0.0022%)  
p.V129I (0.0022%)  
p.F737L (0.0022%)  
p.R437H (0.0022%)  
p.E946Q (0.0022%)  
p.A69P (0.0022%)  
p.I447V (0.0022%)  
p.C684Wfs\*44 (0.0022%)  
p.Y921\* (0.0022%)  
p.P560A (0.0022%)  
p.D137H (0.0022%)  
p.R629K (0.0022%)  
p.D341Vfs\*8 (0.0022%)  
p.A627D (0.0022%)  
p.R641\_A647del (0.0022%)  
p.P1042L (0.0022%)  
p.G56D (0.0022%)  
p.M568V (0.0022%)  
p.I473M (0.0022%)  
p.T80A (0.0022%)  
p.I151= (0.0022%)  
p.N608S (0.0022%)  
p.E644G (0.0022%)  
p.R569H (0.0022%)  
p.D606H (0.0022%)  
p.D1061N (0.0022%)  
p.H150Y (0.0022%)  
p.I474S (0.0022%)  
p.R762H (0.0022%)  
p.Q498Afs\*34 (0.0022%)  
p.R144H (0.0022%)  
p.R499W (0.0022%)  
p.V84M (0.0022%)  
p.K52\_E60del (0.0022%)  
p.V536A (0.0022%)  
p.C291R (0.0022%)  
p.L23dup (0.0022%)  
p.N512S (0.0022%)  
p.R569C (0.0022%)  
p.V386M (0.0022%)  
p.S493L (0.0132%)  
p.E625D (0.0066%)  
p.L255V (0.0066%)  
p.R311C (0.0066%)  
p.P706T (0.0066%)  
p.G203R (0.0044%)  
p.L786F (0.0044%)  
p.G456S (0.0044%)  
p.D586Y (0.0044%)  
p.H142R (0.0044%)  
p.S842Afs\*65 (0.0044%)  
p.V312M (0.0044%)  
p.A639T (0.0044%)  
p.S559C (0.0044%)  
p.P198Q (0.0044%)  
p.R834Q (0.0044%)  
p.R211H (0.0044%)  
p.L302V (0.0044%)  
p.Q1120\* (0.0044%)  
p.K236\* (0.0044%)  
p.A637G (0.0044%)  
p.S464Afs\*42 (0.0044%)  
p.F316Sfs\*2 (0.0044%)  
p.I144= (0.0022%)  
p.L688= (0.0022%)  
p.D614H (0.0022%)  
p.C478W (0.0022%)  
p.R394I (0.0022%)  
p.E931\_R932delinsDK (0.0022%)  
p.R1123Q (0.0022%)  
p.R343H (0.0022%)  
p.K236N (0.0022%)  
p.P588L (0.0022%)  
p.E32Q (0.0022%)  
p.R18C (0.0022%)  
p.F401= (0.0022%)  
p.C119S (0.0022%)  
p.D1013Tfs\*58 (0.0022%)  
p.V40G (0.0022%)  
p.H540N (0.0022%)  
p.E610K (0.0022%)  
p.I830= (0.0022%)  
p.R96Q (0.0022%)  
p.Q681H (0.0022%)  
p.K689E (0.0022%)  
p.E796K (0.0022%)  
p.L681Cfs\*39 (0.0022%)  
p.Q684Dfs\*80 (0.0022%)  
p.S479= (0.0022%)  
p.P65= (0.0022%)  
p.L358M (0.0022%)  
p.W807C (0.0022%)  
p.I363Hfs\*298 (0.0022%)  
p.S213L (0.0022%)  
p.D488Y (0.0022%)  
p.D172H (0.0022%)  
p.I290F (0.0022%)  
p.G495S (0.0022%)  
p.N475K (0.0022%)  
p.R129P (0.0022%)  
p.Q119H (0.0022%)  
p.E198Q (0.0022%)  
p.I305= (0.0022%)  
p.P174= (0.0022%)  
p.H540Y (0.0022%)  
p.A425D (0.0022%)  
p.R994C (0.0022%)  
p.Q399H (0.0022%)  
p.P154Lfs\*15 (0.0022%)  
p.Y472C (0.0022%)  
p.A380V (0.0022%)  
p.R466Gfs\*18 (0.0022%)  
p.E177D (0.0022%)  
p.R432W (0.0022%)  
p.L574I (0.0022%)  
p.P1128Lfs\*22 (0.0022%)  
p.A241T (0.0022%)  
p.E346Gfs\*315 (0.0022%)  
p.R224H (0.0022%)  
p.N666T (0.0022%)  
p.Q188H (0.0022%)  
p.R1076H (0.0022%)  
p.P71L (0.0022%)  
p.P146R (0.0022%)  
p.E1066Q (0.0022%)  
p.K29R (0.0022%)  
p.W265C (0.0022%)  
p.D440H (0.0066%)  
p.E297D (0.0066%)  
p.E238\* (0.0044%)  
p.G357R (0.0044%)  
p.A2= (0.0044%)  
p.D218\_V220delinsE (0.0044%)  
p.R498H (0.0044%)  
p.V525D (0.0044%)  
p.R182W (0.0044%)  
p.K546M (0.0044%)  
p.F170L (0.0044%)  
p.C294R (0.0044%)  
p.G6= (0.0022%)  
p.V201I (0.0022%)  
p.L352= (0.0022%)  
p.E379Q (0.0022%)  
p.R157Q (0.0022%)  
p.R459C (0.0022%)  
p.E101K (0.0022%)  
p.A242= (0.0022%)  
p.E45Q (0.0022%)  
p.T584= (0.0022%)  
p.D8E (0.0022%)  
p.K266Q (0.0022%)  
p.R381G (0.0022%)  
p.A457V (0.0022%)  
p.E64G (0.0022%)  
p.R171Pfs\*7 (0.0022%)  
p.F1362= (0.0088%)  
p.Q201E (0.0066%)  
p.V948M (0.0044%)  
p.D145Y (0.0044%)  
p.N646I (0.0044%)  
p.T296I (0.0044%)  
p.D487N (0.0044%)  
p.L94F (0.0044%)  
p.E1258K (0.0044%)  
p.R113L (0.0044%)  
p.S700Y (0.0044%)  
p.M400I (0.0044%)  
p.P723= (0.0022%)  
p.P568H (0.0022%)  
p.F1357I (0.0022%)  
p.E1249= (0.0022%)  
p.K572Rfs\*12 (0.0022%)  
p.A370= (0.0022%)  
p.I636= (0.0022%)  
p.E1235Gfs\*3 (0.0022%)  
p.H437P (0.0022%)  
p.T296P (0.0022%)  
p.M1073I (0.0022%)  
p.K546N (0.0022%)  
p.K355N (0.0022%)  
p.E604Q (0.0022%)  
p.A150V (0.0022%)  
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p.P15L (0.0022%)  
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p.S51C (0.0022%)  
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p.G472R (0.0066%)  
p.S172I (0.0066%)  
p.E566K (0.0044%)  
p.E20D (0.0044%)  
p.F678L (0.0044%)  
p.S460\* (0.0044%)  
p.E198Rfs\*33 (0.0044%)  
p.A317G (0.0044%)  
p.R385Qfs\*45 (0.0044%)  
p.E642D (0.0044%)  
p.Y189F (0.0044%)  
p.P190H (0.0044%)  
p.P723Gfs\*38 (0.0044%)  
p.A217T (0.0044%)  
p.P629H (0.0022%)  
p.R252P (0.0022%)  
p.D408= (0.0022%)  
p.S502C (0.0022%)  
p.R213H (0.0022%)  
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p.K249N (0.0022%)  
p.D395Y (0.0022%)  
p.I63M (0.0022%)  
p.L49V (0.0022%)  
p.N308T (0.0022%)  
p.Y173S (0.0022%)  
p.Y627\* (0.0022%)  
p.R545H (0.0022%)  
p.I214Yfs\*29 (0.0022%)  
p.E136D (0.0022%)  
p.G45E (0.0022%)  
p.Q115K (0.0022%)  
p.R424H (0.0022%)  
p.Q593Rfs\*24 (0.0022%)  
p.E450\* (0.0022%)  
p.R237C (0.0022%)  
p.T93A (0.0022%)  
p.Y671Lfs\*37 (0.0022%)  
p.R548H (0.0022%)  
p.Y173C (0.0022%)  
p.S395\* (0.0022%)  
p.G554C (0.0022%)  
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p.S525C (0.0022%)  
p.S279C (0.0088%)  
p.K569R (0.0044%)  
p.M197I (0.0044%)  
p.V497D (0.0022%)  
p.D558= (0.0022%)  
p.D466Efs\*157 (0.0022%)  
p.R473C (0.0022%)  
p.E525Q (0.0022%)  
p.V98I (0.0022%)  
p.R529T (0.0022%)  
p.I195M (0.0022%)  
p.E486Gfs\*135 (0.0022%)  
p.G126E (0.0022%)  
p.P373T (0.0022%)  
p.P493S (0.0022%)  
p.R475= (0.0022%)  
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p.L723F (0.0066%)  
p.R371W (0.0044%)  
p.D142H (0.0066%)  
p.P989= (0.0022%)  
p.L345I (0.0022%)  
p.R691Q (0.0044%)  
p.P191L (0.0044%)  
p.L27= (0.0044%)  
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p.Q843E (0.0044%)  
p.D142N (0.0044%)  
p.I73M (0.0044%)  
p.L560V (0.0044%)  
p.L110= (0.0044%)  
p.T212I (0.0044%)  
p.D1006A (0.0044%)  
p.M254I (0.0044%)  
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p.S367Y (0.0044%)  
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p.R778T (0.0044%)  
p.I1034V (0.0044%)  
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p.G464R (0.0044%)  
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p.P118= (0.0022%)  
p.T851M (0.0022%)  
p.E237K (0.0022%)  
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p.G294A (0.0022%)  
p.I977= (0.0022%)  
p.P239= (0.0022%)  
p.A513T (0.0022%)  
p.S532F (0.0022%)  
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p.Q128= (0.0022%)  
p.A175= (0.0022%)  
p.K437Rfs\*5 (0.0022%)  
p.S511F (0.0022%)  
p.L371S (0.0022%)  
p.S1076L (0.0022%)  
p.T646S (0.0022%)  
p.T333= (0.0022%)  
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p.E758K (0.0022%)  
p.A1143V (0.0022%)  
p.E729Q (0.0022%)  
p.P197= (0.0022%)  
p.S899C (0.0022%)  
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p.M428I (0.0022%)  
p.L590= (0.0022%)  
p.G474R (0.0022%)  
p.P308R (0.0022%)  
p.P115= (0.0022%)  
p.V504I (0.0022%)  
p.E430G (0.0022%)  
p.R831G (0.0022%)  
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p.G214A (0.0022%)  
p.A581T (0.0022%)  
p.T359M (0.0022%)  
p.V434A (0.0022%)  
p.Q558H (0.0022%)  
p.P174A (0.0022%)  
p.E743K (0.0022%)  
p.H617R (0.0022%)  
p.C103Vfs\*47 (0.0022%)  
p.R116T (0.0022%)  
p.V162G (0.0022%)  
p.E154G (0.0022%)  
p.S424= (0.0022%)  
p.S662I (0.0022%)  
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p.L147V (0.0022%)  
p.S543R (0.0022%)  
p.W199C (0.0022%)  
p.E399K (0.0022%)  
p.S678L (0.0022%)  
p.P132= (0.0022%)  
p.M800T (0.0022%)  
p.R400C (0.0022%)  
p.H60Q (0.0022%)  
p.K793= (0.0022%)  
p.L733M (0.0022%)  
p.R1180K (0.0022%)  
p.F584= (0.0022%)  
p.P125S (0.0022%)  
p.H464Q (0.0022%)  
p.K638N (0.0022%)  
p.S514N (0.0022%)  
p.R202W (0.0022%)  
p.V486M (0.0022%)  
p.S649\* (0.0022%)  
p.K741R (0.0022%)  
p.S492C (0.0022%)  
p.R258W (0.0022%)  
p.N282I (0.0022%)  
p.M1041T (0.0022%)  
p.R848Q (0.0022%)  
p.R112Hfs\*9 (0.0022%)  
p.P467= (0.0022%)  
p.R296W (0.0022%)  
p.E766D (0.0022%)  
p.C789\* (0.0022%)  
p.I458T (0.0022%)  
p.D414Tfs\*34 (0.0044%)  
p.G857A (0.0044%)  
p.R3P (0.0044%)  
p.E77\* (0.0044%)  
p.H88Y (0.0044%)  
p.E348K (0.0044%)  
p.T485K (0.0022%)  
p.T671= (0.0022%)  
p.L790= (0.0022%)  
p.M817I (0.0022%)  
p.Q471= (0.0022%)  
p.E705D (0.0022%)  
p.E757Q (0.0022%)  
p.S478T (0.0022%)  
p.E763K (0.0022%)  
p.I334= (0.0022%)  
p.Y519= (0.0022%)  
p.R134\* (0.0022%)  
p.P247Lfs\*11 (0.0022%)  
p.H189P (0.0022%)  
p.N335S (0.0022%)  
p.D339E (0.0022%)  
p.Q275= (0.0022%)  
p.L729Qfs\*6 (0.0022%)  
p.P440L (0.0022%)  
p.L189= (0.0066%)  
p.R715= (0.0044%)  
p.E606K (0.0044%)  
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p.G335D (0.0044%)  
p.V1059M (0.0044%)  
p.T645A (0.0044%)  
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p.E295Q (0.0044%)  
p.E266K (0.0044%)  
p.S240L (0.0044%)  
p.N708D (0.0044%)  
p.G223S (0.0044%)  
p.S436P (0.0044%)  
p.E334V (0.0044%)  
p.R784Q (0.0044%)  
p.D410H (0.0044%)  
p.E301K (0.0022%)  
p.G170R (0.0022%)  
p.L1055F (0.0022%)  
p.R43L (0.0022%)  
p.L622M (0.0022%)  
p.R372= (0.0022%)  
p.C1088= (0.0022%)  
p.P1040= (0.0022%)  
p.L1149= (0.0022%)  
p.V428F (0.0022%)  
p.L1190= (0.0022%)  
p.C857\_T858del (0.0022%)  
p.V910I (0.0022%)  
p.S257T (0.0022%)  
p.T465R (0.0022%)  
p.A152= (0.0022%)  
p.L947= (0.0022%)  
p.R758\* (0.0022%)  
p.L974V (0.0022%)  
p.K204E (0.0022%)  
p.L577= (0.0022%)  
p.E901K (0.0022%)  
p.G120R (0.0022%)  
p.R751Q (0.0022%)  
p.R629W (0.0022%)  
p.D297H (0.0022%)  
p.L956= (0.0022%)  
p.R629= (0.0022%)  
p.L789V (0.0022%)  
p.D29V (0.0022%)  
p.R67T (0.0022%)  
p.L189M (0.0022%)  
p.A746V (0.0022%)  
p.P160S (0.0022%)  
p.E1063K (0.0022%)  
p.E1109Q (0.0022%)  
p.L522= (0.0044%)  
p.L532= (0.0044%)  
p.F619= (0.0022%)  
p.E481\* (0.0022%)  
p.K475T (0.0022%)  
p.V457L (0.0022%)  
p.P279L (0.0022%)  
p.F805L (0.0022%)  
p.A600= (0.0022%)  
p.G142R (0.0022%)  
p.D103N (0.0022%)  
p.E871Q (0.0022%)  
p.P192S (0.0022%)  
p.K248= (0.0022%)  
p.P200S (0.0022%)  
p.L795R (0.0022%)  
p.D126H (0.0022%)  
p.P720A (0.0022%)  
p.L90= (0.0022%)  
p.R763W (0.0022%)  
p.N764K (0.0022%)  
p.H1086L (0.0022%)  
p.P679= (0.0022%)  
p.G808= (0.0022%)  
p.N314= (0.0022%)  
p.P360= (0.0022%)  
p.R24C (0.0022%)  
p.P69L (0.0022%)  
p.T665P (0.0022%)  
p.R133K (0.011%)  
p.R398W (0.0066%)  
p.R178C (0.0066%)  
p.W62R (0.0044%)  
p.R165H (0.0044%)  
p.C188S (0.0044%)  
p.D8H (0.0022%)  
p.P1073= (0.0022%)  
p.A186T (0.0022%)  
p.M713I (0.0022%)  
p.A210= (0.0022%)  
p.H1120= (0.0022%)  
p.F206L (0.0022%)  
p.I287= (0.0022%)  
p.Q688\* (0.0022%)  
p.R165C (0.0022%)  
p.P199L (0.0022%)  
p.V723= (0.0022%)  
p.W77L (0.0022%)  
p.E1043\* (0.0022%)  
p.L784= (0.0022%)  
p.A203V (0.0022%)  
p.V678A (0.0022%)  
p.Y162H (0.0022%)  
p.I131M (0.0022%)  
p.V91F (0.0022%)  
p.I765F (0.0132%)  
p.P187L (0.0044%)  
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p.D508V (0.0044%)  
p.E733D (0.0044%)  
p.E61K (0.0044%)  
p.D53N (0.0044%)  
p.L87F (0.0022%)  
p.L67I (0.0022%)  
p.K350= (0.0022%)  
p.Q145E (0.0022%)  
p.S542L (0.0022%)  
p.S4F (0.0022%)  
p.L167= (0.0022%)  
p.Q114\* (0.0022%)  
p.E359Q (0.0022%)  
p.E182K (0.0022%)  
p.K256N (0.0022%)  
p.K326Nfs\*22 (0.0022%)  
p.D538N (0.0022%)  
p.S627\* (0.0022%)  
p.S575C (0.0022%)  
p.D235= (0.0022%)  
p.A296T (0.0022%)  
p.K621N (0.0022%)  
p.K398N (0.0022%)  
p.Y118= (0.0022%)  
p.L50= (0.0022%)  
p.A7V (0.0022%)  
p.E108Q (0.0022%)  
p.Q101Rfs\*22 (0.0022%)  
p.I419V (0.0022%)  
p.Q526\* (0.0022%)  
p.A168V (0.0022%)  
p.I765T (0.0022%)  
p.A115T (0.0022%)  
p.E249K (0.0022%)  
p.E366del (0.0022%)  
p.V374L (0.0022%)  
p.I696= (0.0022%)  
p.M813V (0.0022%)  
p.V705Sfs\*2 (0.0022%)  
p.E86\* (0.0066%)  
p.S347F (0.0044%)  
p.L594= (0.0022%)  
p.S212C (0.0022%)  
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p.Y291S (0.0022%)  
p.P79H (0.0022%)  
p.Y298= (0.0022%)  
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p.S347= (0.0022%)  
p.S67T (0.0022%)  
p.R285= (0.0022%)  
p.P141= (0.0022%)  
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p.G371= (0.0022%)  
p.D371= (0.0022%)  
p.L483F (0.0022%)  
p.W348C (0.0022%)  
p.Q213E (0.0022%)  
p.G506E (0.0022%)  
p.A339S (0.0022%)  
p.P540S (0.0022%)  
p.K706= (0.011%)  
p.T41A (0.0088%)  
p.E653G (0.0066%)  
p.A522G (0.0066%)  
p.S37C (0.0066%)  
p.D727H (0.0066%)  
p.S45del (0.0066%)  
p.E654Q (0.0066%)  
p.S33C (0.0066%)  
p.V471I (0.0044%)  
p.A671= (0.0044%)  
p.F777L (0.0044%)  
p.I109M (0.0044%)  
p.I306V (0.0044%)  
p.R743= (0.0044%)  
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p.S233Y (0.0044%)  
p.E259D (0.0044%)  
p.K335T (0.0044%)  
p.A657T (0.0044%)  
p.R425\* (0.0044%)  
p.R109\* (0.0044%)  
p.Q773\* (0.0044%)  
p.C573Efs\*6 (0.0044%)  
p.V458= (0.0044%)  
p.T42R (0.0044%)  
p.R515Q (0.0022%)  
p.R486H (0.0022%)  
p.M202Ifs\*5 (0.0022%)  
p.Q320E (0.0022%)  
p.S246L (0.0022%)  
p.V454G (0.0022%)  
p.H444R (0.0022%)  
p.D556N (0.0022%)  
p.Y121= (0.0022%)  
p.A730= (0.0022%)  
p.R661P (0.0022%)  
p.S23N (0.0022%)  
p.R360H (0.0022%)  
p.Q26H (0.0022%)  
p.V349= (0.0022%)  
p.L291= (0.0022%)  
p.S318N (0.0022%)  
p.L547= (0.0022%)  
p.S37P (0.0022%)  
p.R325Q (0.0022%)  
p.K68T (0.0022%)  
p.M88V (0.0022%)  
p.H83R (0.0022%)  
p.N387K (0.0022%)  
p.Q130= (0.0022%)  
p.G34V (0.0022%)  
p.K528R (0.0022%)  
p.A740V (0.0022%)  
p.K418Q (0.0022%)  
p.M98V (0.0022%)  
p.R449C (0.0022%)  
p.S348= (0.0022%)  
p.H369Y (0.0022%)  
p.S37Y (0.0022%)  
p.A125V (0.0022%)  
p.S33T (0.0022%)  
p.V796L (0.0088%)  
p.S18\* (0.0066%)  
p.A902V (0.0044%)  
p.R187= (0.0044%)  
p.A995P (0.0044%)  
p.R218H (0.0022%)  
p.L953= (0.0022%)  
p.R100Q (0.0022%)  
p.F1212L (0.0022%)  
p.I461= (0.0022%)  
p.A798V (0.0022%)  
p.Q152H (0.0022%)  
p.V184= (0.0022%)  
p.Y496F (0.0022%)  
p.Y775F (0.0022%)  
p.E306= (0.0022%)  
p.F99L (0.0022%)  
p.S582C (0.0022%)  
p.M479I (0.0022%)  
p.S308R (0.0022%)  
p.M180V (0.0022%)  
p.I883M (0.0022%)  
p.V442M (0.0022%)  
p.T576A (0.0022%)  
p.F303L (0.0022%)  
p.K925R (0.0022%)  
p.S279G (0.0022%)  
p.P150T (0.0022%)  
p.D1165H (0.0022%)  
p.V299= (0.0022%)  
p.R1244\* (0.0022%)  
p.E1120K (0.0022%)  
p.I883N (0.0022%)  
p.E742= (0.0022%)  
p.R1253H (0.0022%)  
p.K474Efs\*26 (0.0088%)  
p.R321C (0.0066%)  
p.D17V (0.0066%)  
p.P291Qfs\*51 (0.0044%)  
p.C660Lfs\*69 (0.0044%)  
p.P289Afs\*28 (0.0044%)  
p.Q481\* (0.0044%)  
p.E529G (0.0044%)  
p.T178A (0.0044%)  
p.R158W (0.0044%)  
p.R618C (0.0044%)  
p.P202Lfs\*122 (0.0044%)  
p.A313V (0.0044%)  
p.C520Y (0.0044%)  
p.G181E (0.0044%)  
p.P353T (0.0044%)  
p.E230K (0.0044%)  
p.R131Q (0.0044%)  
p.K273E (0.0044%)  
p.V259F (0.0044%)  
p.P473L (0.0044%)  
p.Y357= (0.0044%)  
p.E390\_Q391delinsKK (0.0044%)  
p.S19P (0.0044%)  
p.Q444= (0.0044%)  
p.R594del (0.0044%)  
p.R253K (0.0022%)  
p.R220S (0.0022%)  
p.Q388E (0.0022%)  
p.V445G (0.0022%)  
p.L496= (0.0022%)  
p.V105Cfs\*22 (0.0022%)  
p.Y218C (0.0022%)  
p.T285M (0.0022%)  
p.G434A (0.0022%)  
p.R178T (0.0022%)  
p.T346I (0.0022%)  
p.T260M (0.0022%)  
p.F181= (0.0022%)  
p.P379L (0.0022%)  
p.K120N (0.0022%)  
p.S3L (0.0022%)  
p.P379H (0.0022%)  
p.G34E (0.0022%)  
p.L16V (0.0022%)  
p.E476del (0.0022%)  
p.H126Q (0.0022%)  
p.N21K (0.0022%)  
p.R338H (0.0022%)  
p.R229Q (0.0022%)  
p.R54Lfs\*97 (0.0022%)  
p.P237L (0.0022%)  
p.V448A (0.0022%)  
p.E507G (0.0022%)  
p.V104Wfs\*52 (0.0022%)  
p.E495= (0.0022%)  
p.L490F (0.0022%)  
p.R168C (0.0022%)  
p.I186V (0.0022%)  
p.A562T (0.0022%)  
p.K222Q (0.0022%)  
p.T476M (0.0022%)  
p.G81\* (0.0022%)  
p.T190Pfs\*128 (0.0022%)  
p.R92L (0.0022%)  
p.N387= (0.0022%)  
p.G395= (0.0022%)  
p.A174V (0.0022%)  
p.S581N (0.0022%)  
p.N560T (0.0022%)  
p.L108V (0.0044%)  
p.T57I (0.0044%)  
p.D103E (0.0044%)  
p.K112E (0.0022%)  
p.R109K (0.0022%)  
p.D217A (0.0022%)  
p.Q294E (0.0044%)  
p.E154K (0.0044%)  
p.A413Sfs\*12 (0.0044%)  
p.K151N (0.0044%)  
p.P280S (0.0044%)  
p.L242V (0.0044%)  
p.R465W (0.0044%)  
p.P27= (0.0022%)  
p.A437= (0.0022%)  
p.T85P (0.0022%)  
p.F163L (0.0022%)  
p.G336S (0.0022%)  
p.S445= (0.0022%)  
p.I300V (0.0022%)  
p.S186Kfs\*2 (0.0022%)  
p.A148= (0.0022%)  
p.R451H (0.0022%)  
p.R187G (0.0022%)  
p.F162Y (0.0022%)  
p.L97R (0.0022%)  
p.S173= (0.0022%)  
p.T277M (0.0022%)  
p.V657I (0.0022%)  
p.P263= (0.0022%)  
p.V125= (0.0022%)  
p.Q215= (0.0022%)  
p.Q333\* (0.0022%)  
p.A584= (0.0022%)  
p.E397Q (0.0022%)  
p.E106Q (0.0132%)  
p.R132C (0.0132%)  
p.R53L (0.011%)  
p.R386C (0.011%)  
p.D82N (0.0088%)  
p.E193K (0.0066%)  
p.V41L (0.0066%)  
p.Q94H (0.0066%)  
p.E134Q (0.0044%)  
p.T144A (0.0044%)  
p.E51K (0.0044%)  
p.L104I (0.0044%)  
p.R146T (0.0044%)  
p.I241M (0.0044%)  
p.R554Dfs\*57 (0.0044%)  
p.P122S (0.0044%)  
p.E89Q (0.0044%)  
p.Q562H (0.0044%)  
p.M222I (0.0044%)  
p.M38I (0.0044%)  
p.R383W (0.0044%)  
p.T259M (0.0044%)  
p.K65Tfs\*26 (0.0044%)  
p.E346Q (0.0044%)  
p.A247D (0.0044%)  
p.R90W (0.0022%)  
p.V590I (0.0022%)  
p.E697\* (0.0022%)  
p.T588= (0.0022%)  
p.Y215\* (0.0022%)  
p.E294V (0.0022%)  
p.W443Rfs\*32 (0.0022%)  
p.T689N (0.0022%)  
p.I609V (0.0022%)  
p.S209L (0.0022%)  
p.C111= (0.0022%)  
p.A96Lfs\*7 (0.0022%)  
p.V90= (0.0022%)  
p.L104F (0.0022%)  
p.R135T (0.0022%)  
p.R644Q (0.0022%)  
p.T108A (0.0022%)  
p.V271I (0.0022%)  
p.L62= (0.0022%)  
p.S58= (0.0022%)  
p.W51\* (0.0022%)  
p.E112A (0.0022%)  
p.R153K (0.0022%)  
p.R479C (0.0022%)  
p.H801L (0.0022%)  
p.H22Q (0.0022%)  
p.Y57\* (0.0022%)  
p.C97S (0.0022%)  
p.S573= (0.0022%)  
p.A377G (0.0022%)  
p.E51= (0.0022%)  
p.E187D (0.0022%)  
p.D178H (0.0022%)  
p.E95\* (0.0022%)  
p.E51Q (0.0022%)  
p.L711M (0.0022%)  
p.E534del (0.0022%)  
p.R117Q (0.0022%)  
p.N43T (0.0022%)  
p.V623L (0.0022%)  
p.N569S (0.0022%)  
p.R135Sfs\*? (0.0022%)  
p.E98K (0.0022%)  
p.G880A (0.0022%)  
p.P507R (0.0022%)  
p.Y116F (0.0022%)  
p.F79L (0.0022%)  
p.E138A (0.0022%)  
p.D162N (0.0022%)  
p.F597L (0.0022%)  
p.L60Tfs\*19 (0.0022%)  
p.E695\* (0.0022%)  
p.S67P (0.0022%)  
p.S857\* (0.0022%)  
p.K452\* (0.0022%)  
p.D543Y (0.0022%)  
p.L25I (0.0022%)  
p.E495D (0.0022%)  
p.R41G (0.0022%)  
p.V118M (0.0022%)  
p.L61\* (0.0022%)  
p.A164V (0.0022%)  
p.N533= (0.0022%)  
p.R73P (0.0022%)  
p.E565Q (0.0022%)  
p.V194M (0.0022%)  
p.N379S (0.0022%)  
p.S88F (0.0022%)  
p.R132L (0.011%)  
p.I10= (0.0066%)  
p.D79N (0.0088%)  
p.E84Q (0.0066%)  
p.L88F (0.0066%)  
p.K81N (0.0044%)  
p.R338T (0.0044%)  
p.H345L (0.0022%)  
p.L312= (0.0044%)  
p.G263V (0.0044%)  
p.T327A (0.0044%)  
p.K228= (0.0044%)  
p.A184S (0.0044%)  
p.R132G (0.0044%)  
p.C504G (0.0044%)  
p.V404E (0.0044%)  
p.A483G (0.0044%)  
p.D160E (0.0044%)  
p.V125G (0.0044%)  
p.G797D (0.0022%)  
p.D940N (0.0022%)  
p.H273Y (0.0022%)  
p.L201V (0.0022%)  
p.H1418N (0.0022%)  
p.M259I (0.0022%)  
p.L250R (0.0022%)  
p.K15E (0.0022%)  
p.A160Efs\*106 (0.0022%)  
p.G284= (0.0022%)  
p.C1299= (0.0022%)  
p.K1288= (0.0022%)  
p.T1295= (0.0022%)  
p.I1287= (0.0022%)  
p.T219Sfs\*2 (0.0022%)  
p.E531K (0.0022%)  
p.D1153H (0.0022%)  
p.E366K (0.0022%)  
p.G842D (0.0022%)  
p.K217N (0.0022%)  
p.G518= (0.0022%)  
p.T98N (0.0022%)  
p.E1207D (0.0022%)  
p.R574C (0.0022%)  
p.G947D (0.0022%)  
p.Q138E (0.0022%)  
p.P640T (0.0022%)  
p.E187V (0.0022%)  
p.L88= (0.0022%)  
p.S184C (0.0022%)  
p.G605= (0.0022%)  
p.G767S (0.0022%)  
p.G1073S (0.0022%)  
p.G1382D (0.0022%)  
p.V960= (0.0022%)  
p.A864T (0.0022%)  
p.A340T (0.0022%)  
p.T478\* (0.0022%)  
p.S670N (0.0022%)  
p.A179D (0.0022%)  
p.H1110\_G1118del (0.0022%)  
p.I422T (0.0022%)  
p.I189V (0.0022%)  
p.G200R (0.0022%)  
p.G788S (0.0022%)  
p.G629D (0.0022%)  
p.T1419= (0.0022%)  
p.Y235C (0.0022%)  
p.A1087= (0.0022%)  
p.E1006Q (0.0044%)  
p.E538K (0.0044%)  
p.F412S (0.0044%)  
p.R349Q (0.0022%)  
p.A559G (0.0022%)  
p.D989Mfs\*13 (0.0022%)  
p.S564\* (0.0022%)  
p.S928G (0.0022%)  
p.E27K (0.0022%)  
p.G831S (0.0022%)  
p.P355L (0.0022%)  
p.Q443H (0.0022%)  
p.Q460E (0.0022%)  
p.L669P (0.0022%)  
p.E857K (0.0022%)  
p.E624= (0.0022%)  
p.P351= (0.0022%)  
p.S1010F (0.0022%)  
p.M300Cfs\*31 (0.0022%)  
p.A313S (0.011%)  
p.T722= (0.0088%)  
p.D729N (0.0066%)  
p.R482C (0.0066%)  
p.A487S (0.0066%)  
p.L467P (0.0066%)  
p.S460F (0.0066%)  
p.E15K (0.0066%)  
p.P134L (0.0066%)  
p.G348\* (0.0022%)  
p.Q56E (0.0044%)  
p.R318Q (0.0044%)  
p.R76Efs\*5 (0.0022%)  
p.G604A (0.0044%)  
p.F236Y (0.0044%)  
p.G448R (0.0044%)  
p.D481A (0.0044%)  
p.R201H (0.0044%)  
p.E546Q (0.0044%)  
p.C106\* (0.0044%)  
p.V9L (0.0044%)  
p.A486G (0.0022%)  
p.F204= (0.0022%)  
p.S185Y (0.0022%)  
p.I211= (0.0022%)  
p.H64Y (0.0022%)  
p.E63D (0.0022%)  
p.Y105H (0.0022%)  
p.A352T (0.0022%)  
p.E250Q (0.0022%)  
p.T684M (0.0022%)  
p.V203M (0.0022%)  
p.F388= (0.0022%)  
p.V348I (0.0022%)  
p.P710= (0.0022%)  
p.P472L (0.0022%)  
p.P537L (0.0022%)  
p.V233M (0.0022%)  
p.D141N (0.0022%)  
p.F567S (0.0022%)  
p.K3N (0.0022%)  
p.K380N (0.0022%)  
p.M426I (0.0022%)  
p.E453D (0.0022%)  
p.M345I (0.0022%)  
p.D437V (0.0022%)  
p.E468G (0.0022%)  
p.A393P (0.0022%)  
p.W168\* (0.0022%)  
p.I260V (0.0022%)  
p.P715= (0.0022%)  
p.R116Q (0.0022%)  
p.R6= (0.0022%)  
p.S405= (0.0022%)  
p.S737\* (0.0022%)  
p.C143Y (0.0022%)  
p.W226\* (0.0022%)  
p.P14L (0.0022%)  
p.S477C (0.0022%)  
p.L143M (0.0022%)  
p.T151N (0.0022%)  
p.C517Y (0.0022%)  
p.R243G (0.0022%)  
p.Q456H (0.0022%)  
p.I141L (0.0022%)  
p.M381R (0.0022%)  
p.S159A (0.0022%)  
p.K442E (0.0022%)  
p.S213\* (0.0022%)  
p.S258W (0.0022%)  
p.S249F (0.0022%)  
p.R420\* (0.0022%)  
p.V232A (0.0022%)  
p.A539P (0.0022%)  
p.V477Rfs\*16 (0.0022%)  
p.I131= (0.0022%)  
p.S429F (0.0022%)  
p.R485\* (0.0022%)  
p.N276S (0.0022%)  
p.F276C (0.0022%)  
p.T341A (0.0022%)  
p.E449\* (0.0044%)  
p.R16= (0.0088%)  
p.P86Q (0.0088%)  
p.R320Q (0.0088%)  
p.D165N (0.0066%)  
p.I18T (0.0066%)  
p.S360T (0.0066%)  
p.Q26E (0.0066%)  
p.S408\* (0.0066%)  
p.L471= (0.0044%)  
p.R352\* (0.0044%)  
p.S77= (0.0044%)  
p.I485S (0.0044%)  
p.M110L (0.0044%)  
p.Y491\* (0.0044%)  
p.N238Rfs\*33 (0.0044%)  
p.Y334dup (0.0044%)  
p.Q66\* (0.0044%)  
p.T314\_P322del (0.0044%)  
p.C613F (0.0044%)  
p.L365Pfs\*50 (0.0044%)  
p.I175T (0.0044%)  
p.V275Gfs\*3 (0.0044%)  
p.Y537= (0.0022%)  
p.S77L (0.0022%)  
p.G658E (0.0022%)  
p.R470C (0.0022%)  
p.S53I (0.0022%)  
p.H59Y (0.0022%)  
p.T778I (0.0022%)  
p.R169C (0.0022%)  
p.H113P (0.0022%)  
p.I24M (0.0022%)  
p.R68W (0.0022%)  
p.D144= (0.0022%)  
p.T234I (0.0022%)  
p.F292= (0.0022%)  
p.E733Q (0.0022%)  
p.L118= (0.0022%)  
p.A359V (0.0022%)  
p.E83K (0.0022%)  
p.G158R (0.0022%)  
p.E291G (0.0022%)  
p.V163= (0.0022%)  
p.T48Sfs\*2 (0.0022%)  
p.V453Sfs\*27 (0.0022%)  
p.L452Wfs\*6 (0.0022%)  
p.A129Vfs\*30 (0.0022%)  
p.E759K (0.0022%)  
p.S332L (0.0022%)  
p.P329S (0.0022%)  
p.G252E (0.0022%)  
p.C23Y (0.0022%)  
p.V186= (0.0022%)  
p.S132C (0.0022%)  
p.L321\* (0.0022%)  
p.H147R (0.0022%)  
p.E242A (0.0022%)  
p.I159M (0.0022%)  
p.A159T (0.0022%)  
p.D479H (0.0022%)  
p.D100G (0.0022%)  
p.A7= (0.0022%)  
p.N26S (0.0022%)  
p.E25K (0.0022%)  
p.T179= (0.0022%)  
p.I100V (0.0022%)  
p.R45Tfs\*10 (0.0022%)  
p.L20F (0.0022%)  
p.E141K (0.0022%)  
p.G564E (0.0022%)  
p.S338L (0.0022%)  
p.T260= (0.0022%)  
p.L153dup (0.0022%)  
p.D364Y (0.0022%)  
p.V242A (0.0022%)  
p.V164Dfs\*5 (0.0022%)  
p.D269Afs\*9 (0.0022%)  
p.L153\_H154insS (0.0022%)  
p.Q82= (0.0022%)  
p.P24Rfs\*4 (0.0022%)  
p.R42\* (0.0022%)  
p.A522V (0.0022%)  
p.D256G (0.0022%)  
p.D278= (0.0022%)  
p.A95G (0.0044%)  
p.K89N (0.0044%)  
p.H330R (0.0044%)  
p.S469L (0.0044%)  
p.G438C (0.0044%)  
p.Q477\* (0.0044%)  
p.R462P (0.0044%)  
p.R433C (0.0044%)  
p.R421Q (0.0022%)  
p.R464C (0.0022%)  
p.Q114R (0.0022%)  
p.D220A (0.0022%)  
p.R352= (0.0022%)  
p.F256L (0.0022%)  
p.M211V (0.0022%)  
p.P303S (0.0022%)  
p.N288= (0.0022%)  
p.L286= (0.0022%)  
p.D50E (0.0022%)  
p.R401H (0.0022%)  
p.S447\_R448dup (0.0022%)  
p.K409Q (0.0132%)  
p.E99del (0.011%)  
p.M10K (0.011%)  
p.G320S (0.0088%)  
p.N186Y (0.0066%)  
p.D137G (0.0044%)  
p.P221Lfs\*88 (0.0044%)  
p.P353R (0.0044%)  
p.D104Y (0.0044%)  
p.C274G (0.0044%)  
p.D441Y (0.0044%)  
p.N191Tfs\*3 (0.0044%)  
p.K228Q (0.0044%)  
p.C130R (0.0044%)  
p.G78del (0.0044%)  
p.C398\* (0.0044%)  
p.E378Q (0.0022%)  
p.P376A (0.0022%)  
p.R383T (0.0022%)  
p.N87Kfs\*40 (0.0022%)  
p.Y284\* (0.0022%)  
p.E201\* (0.0022%)  
p.L413= (0.0022%)  
p.N271Sfs\*10 (0.0022%)  
p.H396L (0.0022%)  
p.N525K (0.0022%)  
p.G78R (0.0022%)  
p.W147\* (0.0022%)  
p.R176\* (0.0022%)  
p.D441N (0.0022%)  
p.S468= (0.0022%)  
p.Q237= (0.0022%)  
p.F571Lfs\*11 (0.0022%)  
p.Y110H (0.0022%)  
p.E141Qfs\*81 (0.0022%)  
p.D441G (0.0022%)  
p.T711K (0.0022%)  
p.L524V (0.0022%)  
p.T393N (0.0022%)  
p.L173= (0.0022%)  
p.W95Lfs\*37 (0.0022%)  
p.V103A (0.0022%)  
p.P145S (0.0022%)  
p.H135Y (0.0022%)  
p.A487T (0.0022%)  
p.H331P (0.0022%)  
p.R102G (0.0022%)  
p.Y10Ifs\*2 (0.0022%)  
p.I181V (0.0022%)  
p.P27L (0.0022%)  
p.C725R (0.0022%)  
p.A134S (0.011%)  
p.E390Q (0.0066%)  
p.V181L (0.0066%)  
p.A370V (0.0066%)  
p.A580T (0.0066%)  
p.P88A (0.0066%)  
p.I263Wfs\*44 (0.0066%)  
p.R149W (0.0066%)  
p.E270K (0.0066%)  
p.P157A (0.0044%)  
p.R257H (0.0044%)  
p.R142= (0.0044%)  
p.A130= (0.0044%)  
p.E389K (0.0044%)  
p.I71M (0.0044%)  
p.S455C (0.0044%)  
p.E390D (0.0044%)  
p.E245Q (0.0044%)  
p.E377K (0.0044%)  
p.R335C (0.0044%)  
p.N281K (0.0044%)  
p.A334V (0.0044%)  
p.D37del (0.0044%)  
p.Q213\* (0.0044%)  
p.C155Sfs\*30 (0.0044%)  
p.P308H (0.0044%)  
p.S366L (0.0044%)  
p.G218A (0.0044%)  
p.D175N (0.0044%)  
p.F95V (0.0044%)  
p.R558K (0.0044%)  
p.I65del (0.0044%)  
p.A144V (0.0044%)  
p.I621T (0.0044%)  
p.I514F (0.0044%)  
p.R369S (0.0022%)  
p.G455A (0.0022%)  
p.R43Q (0.0022%)  
p.I334N (0.0022%)  
p.T540P (0.0022%)  
p.E25Q (0.0022%)  
p.S630R (0.0022%)  
p.P608= (0.0022%)  
p.T180S (0.0022%)  
p.L498V (0.0022%)  
p.L490= (0.0022%)  
p.H520Lfs\*24 (0.0022%)  
p.D642N (0.0022%)  
p.I197= (0.0022%)  
p.E398\* (0.0022%)  
p.D231Sfs\*14 (0.0022%)  
p.E199Q (0.0022%)  
p.S271Y (0.0022%)  
p.E586Q (0.0022%)  
p.L596= (0.0022%)  
p.N203= (0.0022%)  
p.Y94F (0.0022%)  
p.A611D (0.0022%)  
p.I152= (0.0022%)  
p.E257Q (0.0022%)  
p.W176\* (0.0022%)  
p.Y252H (0.0022%)  
p.Q187R (0.0022%)  
p.E754G (0.0022%)  
p.S44L (0.0022%)  
p.E187K (0.0022%)  
p.T352S (0.0022%)  
p.T62I (0.0022%)  
p.S298R (0.0022%)  
p.D638G (0.0022%)  
p.L222F (0.0022%)  
p.T395I (0.0022%)  
p.T421= (0.0022%)  
p.V92M (0.0022%)  
p.D33N (0.0022%)  
p.T670= (0.0022%)  
p.R199S (0.0022%)  
p.R346W (0.0022%)  
p.S2F (0.0022%)  
p.S415F (0.0022%)  
p.Q149R (0.0022%)  
p.D175G (0.0022%)  
p.I444M (0.0022%)  
p.Y415H (0.0022%)  
p.D36A (0.0022%)  
p.R511W (0.0022%)  
p.F517L (0.0022%)  
p.R525K (0.0022%)  
p.G9D (0.0022%)  
p.P226H (0.0022%)  
p.\*761Rext\*7 (0.0022%)  
p.I64\* (0.0022%)  
p.W269Gfs\*8 (0.0022%)  
p.A320G (0.0022%)  
p.N649S (0.0022%)  
p.A680V (0.0022%)  
p.T484M (0.0022%)  
p.D349N (0.0022%)  
p.R531K (0.011%)  
p.D79H (0.0066%)  
p.L355R (0.0066%)  
p.R100C (0.0066%)  
p.A478V (0.0044%)  
p.L383= (0.0044%)  
p.D217N (0.0044%)  
p.Q754\* (0.0044%)  
p.S138P (0.0044%)  
p.K571N (0.0022%)  
p.K255N (0.0022%)  
p.E584D (0.0022%)  
p.R487\* (0.0022%)  
p.Q264H (0.0022%)  
p.R53W (0.0022%)  
p.G431E (0.0022%)  
p.T314A (0.0022%)  
p.A695S (0.0022%)  
p.H66Y (0.0022%)  
p.E140K (0.0022%)  
p.D654H (0.0022%)  
p.L193= (0.0022%)  
p.A156T (0.0022%)  
p.F570= (0.0022%)  
p.K583Nfs\*16 (0.0022%)  
p.I424N (0.0022%)  
p.E178D (0.0022%)  
p.D67V (0.0022%)  
p.F753L (0.0022%)  
p.K214= (0.0022%)  
p.P829A (0.0022%)  
p.T202M (0.0022%)  
p.Q340E (0.0022%)  
p.V714M (0.0022%)  
p.P476A (0.0022%)  
p.L355= (0.0022%)  
p.D658N (0.0022%)  
p.P367T (0.0022%)  
p.Q94P (0.0022%)  
p.Q368Pfs\*9 (0.0022%)  
p.V498L (0.0022%)  
p.Q706H (0.0022%)  
p.L64= (0.0022%)  
p.G53W (0.0022%)  
p.S82\* (0.0066%)  
p.Y125C (0.0066%)  
p.G872S (0.0044%)  
p.T166= (0.0044%)  
p.Q540= (0.0044%)  
p.V199Pfs\*7 (0.0044%)  
p.E509Q (0.0022%)  
p.V292L (0.0022%)  
p.R753Q (0.0022%)  
p.D140A (0.0022%)  
p.K48= (0.0022%)  
p.F314S (0.0022%)  
p.T999M (0.0022%)  
p.V523G (0.0022%)  
p.K551= (0.0022%)  
p.M1211I (0.0022%)  
p.N479S (0.0022%)  
p.V53A (0.0022%)  
p.R148\* (0.0022%)  
p.T198I (0.0022%)  
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p.P611= (0.0022%)  
p.K304E (0.0022%)  
p.M140V (0.0022%)  
p.P45Lfs\*8 (0.0022%)  
p.P787S (0.0022%)  
p.Q535= (0.0022%)  
p.Q550dup (0.0022%)  
p.Q544= (0.0022%)  
p.T338M (0.0022%)  
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p.R289C (0.0022%)  
p.Q788E (0.0022%)  
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p.F45= (0.0022%)  
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p.Q532= (0.0022%)  
p.M30R (0.0022%)  
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p.Q231= (0.0022%)  
p.G382R (0.0088%)  
p.I145M (0.0088%)  
p.Q307H (0.0088%)  
p.E122\* (0.0066%)  
p.P768L (0.0066%)  
p.M317T (0.0066%)  
p.S41\* (0.0066%)  
p.S443\* (0.0022%)  
p.G367S (0.0044%)  
p.Q192H (0.0044%)  
p.G362V (0.0044%)  
p.I16M (0.0044%)  
p.P521R (0.0044%)  
p.A641S (0.0044%)  
p.P338T (0.0022%)  
p.Y449N (0.0044%)  
p.K405Qfs\*93 (0.0044%)  
p.D210N (0.0044%)  
p.I322V (0.0044%)  
p.A174T (0.0044%)  
p.V102I (0.0044%)  
p.R332K (0.0044%)  
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p.N286S (0.0044%)  
p.R175C (0.0044%)  
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p.V456A (0.0022%)  
p.P182= (0.0022%)  
p.D637N (0.0022%)  
p.H645L (0.0022%)  
p.A319= (0.0022%)  
p.A331= (0.0022%)  
p.S13C (0.0022%)  
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p.E349= (0.0022%)  
p.K652E (0.0022%)  
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p.N182Y (0.0022%)  
p.M164V (0.0022%)  
p.H713= (0.0022%)  
p.V456= (0.0022%)  
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p.R119C (0.0022%)  
p.R398C (0.0022%)  
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p.V262A (0.0022%)  
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p.G236= (0.0022%)  
p.N720S (0.0022%)  
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p.G35E (0.0066%)  
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p.R316C (0.0022%)  
p.P116L (0.0022%)  
p.A477S (0.0022%)  
p.N271Tfs\*17 (0.0022%)  
p.M633Dfs\*30 (0.0022%)  
p.R623W (0.0022%)  
p.A249D (0.0022%)  
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p.Y1082H (0.0022%)  
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p.T982M (0.0022%)  
p.E558K (0.0022%)  
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p.R284= (0.0022%)  
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p.D155H (0.0022%)  
p.D791N (0.0022%)  
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p.I204M (0.0022%)  
p.L218= (0.0022%)  
p.L892\* (0.0022%)  
p.P444T (0.0022%)  
p.C1058= (0.0022%)  
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p.G453S (0.0066%)  
p.G635S (0.0044%)  
p.K1125N (0.0022%)  
p.L559I (0.0022%)  
p.Q1088\* (0.0022%)  
p.L500= (0.0022%)  
p.S563= (0.0022%)  
p.Q945R (0.0022%)  
p.V321L (0.0022%)  
p.Q27H (0.0022%)  
p.L53\* (0.0022%)  
p.G636E (0.0022%)  
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p.S102\* (0.0022%)  
p.Q417= (0.0022%)  
p.E895K (0.0022%)  
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p.E161= (0.0022%)  
p.D441H (0.0022%)  
p.S177\* (0.0022%)  
p.H472Y (0.0022%)  
p.L53Ffs\*13 (0.0022%)  
p.V133= (0.0022%)  
p.Q902= (0.0022%)  
p.H307= (0.0022%)  
p.S484F (0.0022%)  
p.W263S (0.0022%)  
p.L1070= (0.0022%)  
p.G316V (0.0022%)  
p.A86V (0.0022%)  
p.Q295E (0.0022%)  
p.E278del (0.0022%)  
p.G625R (0.0022%)  
p.Y104C (0.0022%)  
p.W82C (0.0022%)  
p.G54\* (0.0022%)  
p.S382L (0.0022%)  
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p.I179T (0.0022%)  
p.Q238\* (0.0022%)  
p.S347L (0.0022%)  
p.Q415H (0.0022%)  
p.S155L (0.0044%)  
p.G325R (0.0066%)  
p.K592Qfs\*12 (0.0066%)  
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p.K315N (0.0066%)  
p.V121M (0.0066%)  
p.S343= (0.0044%)  
p.V276A (0.0044%)  
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p.T402S (0.0044%)  
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p.G486= (0.0044%)  
p.P401T (0.0044%)  
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p.P828= (0.0022%)  
p.E328\* (0.0022%)  
p.F399= (0.0022%)  
p.L196M (0.0022%)  
p.A1139= (0.0022%)  
p.Y164= (0.0022%)  
p.G503= (0.0022%)  
p.S596R (0.0022%)  
p.G554= (0.0022%)  
p.V197A (0.0022%)  
p.G47= (0.0022%)  
p.G368C (0.0022%)  
p.Y49H (0.0022%)  
p.L440= (0.0022%)  
p.K134\* (0.0022%)  
p.A1004= (0.0022%)  
p.W849C (0.0022%)  
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p.G183R (0.0022%)  
p.A53T (0.0022%)  
p.R82C (0.0022%)  
p.G239W (0.0022%)  
p.R113C (0.0022%)  
p.G579= (0.0022%)  
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p.D853H (0.0022%)  
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p.S49F (0.0022%)  
p.I376= (0.0022%)  
p.H377Y (0.0022%)  
p.A1129V (0.0022%)  
p.Q158H (0.0022%)  
p.R253W (0.0022%)  
p.P812Q (0.0022%)  
p.G520D (0.0022%)  
p.L26Q (0.0022%)  
p.G1154A (0.0022%)  
p.S356C (0.0022%)  
p.P474= (0.0022%)  
p.G596D (0.0022%)  
p.S457T (0.0022%)  
p.A132= (0.0022%)  
p.P410T (0.0022%)  
p.A58= (0.0022%)  
p.S918= (0.0022%)  
p.S918P (0.0022%)  
p.S178C (0.0022%)  
p.E268K (0.0022%)  
p.S917I (0.0022%)  
p.G215E (0.0022%)  
p.Y1046F (0.0022%)  
p.N414H (0.0022%)  
p.G359= (0.0022%)  
p.A425V (0.0022%)  
p.P833T (0.0022%)  
p.K418= (0.0022%)  
p.Y98= (0.0022%)  
p.L386P (0.0022%)  
p.G476= (0.0022%)  
p.Q77H (0.0022%)  
p.Q34E (0.0022%)  
p.G485D (0.0022%)  
p.T135I (0.0022%)  
p.P272L (0.0022%)  
p.R191C (0.0022%)  
p.A25P (0.0088%)  
p.Y199D (0.0066%)  
p.L157= (0.0044%)  
p.D54E (0.0044%)  
p.D138E (0.0044%)  
p.A432= (0.0022%)  
p.Q35= (0.0022%)  
p.V144M (0.0022%)  
p.Y366= (0.0022%)  
p.P356= (0.0022%)  
p.P347= (0.0022%)  
p.N202= (0.0022%)  
p.H57R (0.0022%)  
p.E176G (0.0022%)  
p.Y384= (0.0022%)  
p.L31= (0.0022%)  
p.R115Q (0.0022%)  
p.E471= (0.0022%)  
p.A190T (0.0022%)  
p.G107E (0.0022%)  
p.I77Dfs\*2 (0.0022%)  
p.M227T (0.0022%)  
p.N106S (0.0022%)  
p.G20R (0.0022%)  
p.S221= (0.0022%)  
p.V124F (0.0022%)  
p.L84= (0.0022%)  
p.K282N (0.0066%)  
p.D296N (0.0044%)  
p.\*360Lext\*48 (0.0044%)  
p.R256W (0.0044%)  
p.A520= (0.0044%)  
p.D798H (0.0022%)  
p.E221Q (0.0022%)  
p.E432Q (0.0022%)  
p.H644P (0.0022%)  
p.Q893E (0.0022%)  
p.D454A (0.0022%)  
p.R114W (0.0022%)  
p.S130G (0.0022%)  
p.S154= (0.0022%)  
p.I659= (0.0022%)  
p.E662K (0.0022%)  
p.L112P (0.0022%)  
p.I832T (0.0022%)  
p.L684= (0.0022%)  
p.M194R (0.0022%)  
p.L732= (0.0022%)  
p.D688N (0.0022%)  
p.F614S (0.0022%)  
p.A793T (0.0022%)  
p.D35N (0.0022%)  
p.S482R (0.0022%)  
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p.L273= (0.0022%)  
p.R196C (0.0022%)  
p.P334= (0.0022%)  
p.S49C (0.0022%)  
p.Y656= (0.0022%)  
p.S255L (0.0022%)  
p.E34del (0.0022%)  
p.Q742E (0.0022%)  
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p.R687= (0.0022%)  
p.V258L (0.0022%)  
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p.R92G (0.0044%)  
p.E207Q (0.0044%)  
p.E349K (0.0044%)  
p.V283M (0.0044%)  
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p.N340D (0.0044%)  
p.F57L (0.0044%)  
p.E126= (0.0022%)  
p.D103= (0.0022%)  
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p.K115N (0.0022%)  
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p.L12V (0.0022%)  
p.L333= (0.0022%)  
p.E836Q (0.0022%)  
p.A790= (0.0022%)  
p.V35A (0.0022%)  
p.D3E (0.0022%)  
p.L283S (0.0022%)  
p.T273I (0.0022%)  
p.R358C (0.0022%)  
p.Q919\* (0.0022%)  
p.T416M (0.0022%)  
p.P157L (0.0022%)  
p.L218F (0.0022%)  
p.A338= (0.0022%)  
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p.W462L (0.0022%)  
p.H235Y (0.0022%)  
p.E328K (0.0022%)  
p.M77I (0.0022%)  
p.P419= (0.0022%)  
p.E422\* (0.0022%)  
p.S341L (0.0022%)  
p.P498L (0.0022%)  
p.T277= (0.0022%)  
p.E6K (0.0022%)  
p.A226V (0.0022%)  
p.N344S (0.0022%)  
p.M622Wfs\*8 (0.0022%)  
p.N335= (0.0022%)  
p.Q148E (0.0022%)  
p.L726= (0.0022%)  
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p.L674= (0.0022%)  
p.P298L (0.0022%)  
p.G529D (0.0022%)  
p.F506= (0.0022%)  
p.S210Qfs\*6 (0.0022%)  
p.H243Q (0.0022%)  
p.A372= (0.0022%)  
p.G83S (0.0022%)  
p.R193\* (0.0022%)  
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p.K31\* (0.0022%)  
p.G616R (0.0022%)  
p.E731D (0.0022%)  
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p.R172G (0.0066%)  
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p.M473I (0.0022%)  
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p.F130= (0.0022%)  
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p.Q169E (0.0022%)  
p.T138N (0.0022%)  
p.D52Tfs\*69 (0.0022%)  
p.R190T (0.0022%)  
p.G482Dfs\*44 (0.0022%)  
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p.R172K (0.0022%)  
p.G1405S (0.0022%)  
p.A321= (0.0022%)  
p.A373T (0.0022%)  
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p.S8= (0.0022%)  
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p.S215L (0.0022%)  
p.L787= (0.0022%)  
p.P195= (0.0022%)  
p.V1484= (0.0022%)  
p.G1362A (0.0022%)  
p.G822A (0.0022%)  
p.L49M (0.0022%)  
p.A251= (0.0022%)  
p.R179I (0.0022%)  
p.E850Q (0.0022%)  
p.R533Q (0.0022%)  
p.G389C (0.0022%)  
p.G480A (0.0022%)  
p.C7= (0.0022%)  
p.G867V (0.0022%)  
p.P320= (0.0022%)  
p.S448= (0.0022%)  
p.G216E (0.0022%)  
p.P269= (0.0022%)  
p.L98F (0.0022%)  
p.Q122R (0.0022%)  
p.M228I (0.0022%)  
p.R190= (0.0022%)  
p.Y462del (0.0022%)  
p.P285T (0.0022%)  
p.N299Kfs\*11 (0.0088%)  
p.R197G (0.0044%)  
p.P92Q (0.0044%)  
p.P207Q (0.0044%)  
p.E9K (0.0044%)  
p.M278I (0.0044%)  
p.Q230\* (0.0044%)  
p.S37Hfs\*69 (0.0044%)  
p.H52Vfs\*30 (0.0044%)  
p.L32= (0.0044%)  
p.Q153H (0.0044%)  
p.K112Rfs\*2 (0.0044%)  
p.I111N (0.0044%)  
p.K112N (0.0044%)  
p.C189\_A190delinsWH (0.0044%)  
p.M323Ifs\*2 (0.0044%)  
p.E293Dfs\*16 (0.0044%)  
p.P233S (0.0022%)  
p.K311Sfs\*6 (0.0022%)  
p.Q36H (0.0022%)  
p.S37R (0.0022%)  
p.L233= (0.0022%)  
p.R257= (0.0022%)  
p.E120\* (0.0022%)  
p.R260C (0.0022%)  
p.Q82Rfs\*22 (0.0022%)  
p.E256G (0.0022%)  
p.S43C (0.0022%)  
p.C99\* (0.0022%)  
p.A190= (0.0022%)  
p.H52Wfs\*30 (0.0022%)  
p.M215Cfs\*29 (0.0022%)  
p.F97V (0.0022%)  
p.S738P (0.0088%)  
p.L248M (0.0044%)  
p.S192F (0.0044%)  
p.Q239\* (0.0044%)  
p.K731R (0.0044%)  
p.P767L (0.0044%)  
p.P748L (0.0044%)  
p.D367Efs\*17 (0.0044%)  
p.S129\* (0.0044%)  
p.T176M (0.0044%)  
p.G226= (0.0044%)  
p.S122T (0.0044%)  
p.S594N (0.0044%)  
p.P470T (0.0044%)  
p.A164T (0.0022%)  
p.C349S (0.0022%)  
p.M84L (0.0022%)  
p.S54T (0.0022%)  
p.Q328H (0.0022%)  
p.T826S (0.0022%)  
p.N740K (0.0022%)  
p.K180N (0.0022%)  
p.S469Afs\*22 (0.0022%)  
p.N453H (0.0022%)  
p.D43Y (0.0022%)  
p.N571D (0.0022%)  
p.F414= (0.0022%)  
p.R118P (0.0022%)  
p.S160T (0.0022%)  
p.V167= (0.0022%)  
p.A372T (0.0022%)  
p.I48N (0.0022%)  
p.G81E (0.0022%)  
p.A411V (0.0022%)  
p.P191A (0.0022%)  
p.N371= (0.0022%)  
p.T142I (0.0022%)  
p.Y102C (0.0022%)  
p.R231= (0.0022%)  
p.T303I (0.0022%)  
p.P161A (0.0022%)  
p.Q78R (0.0066%)  
p.S333L (0.0044%)  
p.V189M (0.0044%)  
p.Q31E (0.0044%)  
p.I312L (0.0044%)  
p.D54= (0.0044%)  
p.D54G (0.0044%)  
p.R30K (0.0044%)  
p.K559N (0.0044%)  
p.I318Mfs\*120 (0.0044%)  
p.E209A (0.0044%)  
p.P404A (0.0044%)  
p.A173T (0.0022%)  
p.A141= (0.0022%)  
p.G24R (0.0022%)  
p.S217L (0.0022%)  
p.H423= (0.0022%)  
p.L225= (0.0022%)  
p.D57A (0.0022%)  
p.L7= (0.0022%)  
p.Q355E (0.0022%)  
p.P63S (0.0022%)  
p.D375V (0.0022%)  
p.A182V (0.0022%)  
p.T74A (0.0022%)  
p.P185S (0.0022%)  
p.S157I (0.0022%)  
p.S337C (0.0022%)  
p.R97= (0.0022%)  
p.R59G (0.0022%)  
p.E306\* (0.0022%)  
p.R239C (0.0022%)  
p.E47K (0.0022%)  
p.I24L (0.0022%)  
p.Q22K (0.0022%)  
p.G80E (0.0022%)  
p.H429Pfs\*27 (0.0022%)  
p.W191G (0.0022%)  
p.S65N (0.0022%)  
p.E277Q (0.0022%)  
p.K292E (0.0022%)  
p.Y76Hfs\*10 (0.0022%)  
p.A328V (0.0022%)  
p.A24= (0.0022%)  
p.K529N (0.0022%)  
p.R205H (0.0022%)  
p.D357G (0.0022%)  
p.S11Lfs\*43 (0.0088%)  
p.D325N (0.0066%)  
p.G26V (0.0066%)  
p.E617Q (0.0044%)  
p.K317N (0.0044%)  
p.D272Y (0.0022%)  
p.V995Ffs\*14 (0.0044%)  
p.H566= (0.0044%)  
p.E92A (0.0044%)  
p.E92\* (0.0044%)  
p.R430H (0.0044%)  
p.G292A (0.0044%)  
p.G393R (0.0044%)  
p.T620= (0.0022%)  
p.L507R (0.0022%)  
p.L164= (0.0022%)  
p.S880L (0.0022%)  
p.S70L (0.0022%)  
p.R570T (0.0022%)  
p.G343A (0.0022%)  
p.N305= (0.0022%)  
p.Q333E (0.0022%)  
p.R327L (0.0022%)  
p.G680S (0.0022%)  
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p.R350G (0.0022%)  
p.E124K (0.0022%)  
p.L998= (0.0022%)  
p.E124Q (0.0022%)  
p.R775Q (0.0022%)  
p.I168T (0.0022%)  
p.Q578E (0.0022%)  
p.S849= (0.0022%)  
p.E42Q (0.0022%)  
p.Q441\* (0.0022%)  
p.H888Q (0.0022%)  
p.Y290C (0.0022%)  
p.A922= (0.0022%)  
p.Q472= (0.0022%)  
p.C588W (0.0022%)  
p.G523R (0.0022%)  
p.R469K (0.0022%)  
p.V109= (0.0022%)  
p.A540P (0.0022%)  
p.Q188\* (0.0022%)  
p.G257\* (0.0022%)  
p.M855\* (0.0022%)  
p.S580Y (0.0022%)  
p.A500S (0.0022%)  
p.V1052= (0.0022%)  
p.V76= (0.0022%)  
p.R646W (0.0022%)  
p.M634I (0.0022%)  
p.S11Y (0.0022%)  
p.R620Q (0.0022%)  
p.D596Tfs\*102 (0.0022%)  
p.E543= (0.0022%)  
p.Q11Kfs\*66 (0.0022%)  
p.R431Q (0.0022%)  
p.G501A (0.0022%)  
p.G346S (0.0022%)  
p.G567V (0.0022%)  
p.G493E (0.0022%)  
p.S116= (0.0022%)  
p.K25Rfs\*11 (0.0044%)  
p.Q697\* (0.0022%)  
p.K508Q (0.0022%)  
p.V247A (0.0022%)  
p.E70Q (0.0022%)  
p.E544D (0.0022%)  
p.G268E (0.0022%)  
p.V817A (0.0022%)  
p.V1017G (0.0022%)  
p.P438= (0.0022%)  
p.T215P (0.0022%)  
p.E512K (0.0022%)  
p.S203G (0.0022%)  
p.L725F (0.0022%)  
p.K226R (0.0022%)  
p.Y144N (0.0022%)  
p.F214Sfs\*65 (0.0022%)  
p.Q93E (0.0022%)  
p.L230= (0.0022%)  
p.H235P (0.0022%)  
p.P463A (0.0022%)  
p.K143= (0.0022%)  
p.K153T (0.0022%)  
p.S222\* (0.0022%)  
p.C518Y (0.0022%)  
p.S407Wfs\*5 (0.0022%)  
p.G408D (0.0022%)  
p.I284Tfs\*37 (0.0022%)  
p.E13D (0.0066%)  
p.R150W (0.0044%)  
p.Q831H (0.0044%)  
p.S389F (0.0044%)  
p.R127C (0.0044%)  
p.S179F (0.0044%)  
p.S196F (0.0044%)  
p.L274R (0.0044%)  
p.S183Y (0.0044%)  
p.L18= (0.0044%)  
p.D9N (0.0044%)  
p.S86N (0.0022%)  
p.R55= (0.0022%)  
p.I646M (0.0022%)  
p.N349Lfs\*17 (0.0022%)  
p.P96L (0.0022%)  
p.S26\* (0.0022%)  
p.S679C (0.0022%)  
p.S813= (0.0022%)  
p.E216D (0.0022%)  
p.L802= (0.0022%)  
p.S58L (0.0022%)  
p.L552= (0.0022%)  
p.Q328\* (0.0022%)  
p.F492= (0.0022%)  
p.R272C (0.0022%)  
p.E35Q (0.0022%)  
p.S451N (0.0022%)  
p.K52N (0.0022%)  
p.G174= (0.0022%)  
p.G172S (0.0022%)  
p.Q281Pfs\*92 (0.0022%)  
p.G246D (0.0022%)  
p.A249G (0.0022%)  
p.K284= (0.0022%)  
p.G111R (0.0022%)  
p.S136C (0.0022%)  
p.D484\_N485del (0.0022%)  
p.K172R (0.0022%)  
p.L148= (0.0022%)  
p.E69= (0.0022%)  
p.A528S (0.0022%)  
p.L745V (0.0022%)  
p.D622Y (0.0022%)  
p.S389Y (0.0022%)  
p.S546T (0.0022%)  
p.F509Wfs\*32 (0.0022%)  
p.L29F (0.0022%)  
p.V129L (0.0022%)  
p.S75N (0.0022%)  
p.P29T (0.0066%)  
p.M240V (0.0066%)  
p.G141A (0.0022%)  
p.V268= (0.0044%)  
p.T260P (0.0044%)  
p.E72K (0.0044%)  
p.S42= (0.0044%)  
p.V275I (0.0044%)  
p.G79S (0.0044%)  
p.F375= (0.0022%)  
p.Y173= (0.0022%)  
p.V183G (0.0022%)  
p.R141\* (0.0022%)  
p.R516= (0.0022%)  
p.S520= (0.0022%)  
p.T507= (0.0022%)  
p.R516S (0.0022%)  
p.K523= (0.0022%)  
p.D49Y (0.0022%)  
p.S392C (0.0022%)  
p.L326= (0.0022%)  
p.F237Ifs\*45 (0.0022%)  
p.K524Rfs\*8 (0.0022%)  
p.R102W (0.0022%)  
p.R18H (0.0022%)  
p.R270= (0.0022%)  
p.R331C (0.0022%)  
p.E146Q (0.0022%)  
p.L63= (0.0022%)  
p.S396L (0.0022%)  
p.L238= (0.0022%)  
p.D477E (0.0022%)  
p.A66G (0.0022%)  
p.S392= (0.0022%)  
p.L460R (0.0022%)  
p.E190K (0.0022%)  
p.Y540\* (0.0022%)  
p.K43\* (0.0022%)  
p.P69S (0.0022%)  
p.G136E (0.0022%)  
p.G136R (0.0022%)  
p.V18M (0.0022%)  
p.S432Cfs\*29 (0.0022%)  
p.N401S (0.0022%)  
p.C200Vfs\*26 (0.0022%)  
p.T116S (0.0022%)  
p.N111Y (0.0022%)  
p.R359T (0.0022%)  
p.A178V (0.0022%)  
p.P29S (0.0022%)  
p.A133S (0.0066%)  
p.G300E (0.0066%)  
p.I277M (0.0066%)  
p.E20K (0.0044%)  
p.S69F (0.0044%)  
p.I131N (0.0044%)  
p.K95= (0.0044%)  
p.D50H (0.0044%)  
p.E118K (0.0044%)  
p.G279D (0.0044%)  
p.F153S (0.0044%)  
p.S131C (0.0044%)  
p.T23del (0.0044%)  
p.A68G (0.0044%)  
p.T367I (0.0044%)  
p.S289Y (0.0044%)  
p.K76N (0.0022%)  
p.E352K (0.0022%)  
p.Q219E (0.0022%)  
p.V301= (0.0022%)  
p.M93Rfs\*7 (0.0022%)  
p.S130Y (0.0022%)  
p.\*242Lext\*89 (0.0022%)  
p.E428K (0.0022%)  
p.K404N (0.0022%)  
p.S207L (0.0022%)  
p.S232= (0.0022%)  
p.A325D (0.0022%)  
p.D150E (0.0022%)  
p.T118= (0.0022%)  
p.E126D (0.0022%)  
p.D379G (0.0022%)  
p.I164= (0.0022%)  
p.S71N (0.0022%)  
p.G125D (0.0022%)  
p.Q168H (0.0022%)  
p.R138H (0.0022%)  
p.G311R (0.0022%)  
p.D136H (0.0022%)  
p.W77\* (0.0022%)  
p.R123Afs\*5 (0.0022%)  
p.S200T (0.0022%)  
p.L124Gfs\*17 (0.0022%)  
p.M201Hfs\*8 (0.0022%)  
p.R216C (0.0022%)  
p.F401I (0.0022%)  
p.S75P (0.0022%)  
p.G240S (0.0022%)  
p.E72Q (0.0022%)  
p.V406I (0.0022%)  
p.T259N (0.0022%)  
p.P233T (0.0022%)  
p.E127Q (0.0022%)  
p.G97A (0.0022%)  
p.\*377Wext\*31 (0.0022%)  
p.Q52del (0.0022%)  
p.L84V (0.0022%)  
p.A177Hfs\*13 (0.0022%)  
p.P358L (0.0022%)  
p.E47Gfs\*8 (0.0022%)  
p.L11V (0.0022%)  
p.P291del (0.0022%)  
p.K95N (0.0022%)  
p.P74L (0.0022%)  
p.E272del (0.0022%)  
p.S245Qfs\*8 (0.0044%)  
p.L498= (0.0022%)  
p.D374H (0.0022%)  
p.S1069C (0.0022%)  
p.W437\* (0.0022%)  
p.H522Q (0.0022%)  
p.Q215H (0.0022%)  
p.N431= (0.0022%)  
p.E557Q (0.0022%)  
p.S890F (0.0022%)  
p.S654P (0.0022%)  
p.Q577= (0.0022%)  
p.P594L (0.0022%)  
p.E120= (0.0022%)  
p.S1037F (0.0022%)  
p.S857L (0.0022%)  
p.S129L (0.0022%)  
p.S951L (0.0022%)  
p.E618K (0.0022%)  
p.G229D (0.0022%)  
p.D771= (0.0022%)  
p.D285N (0.0022%)  
p.S120F (0.0022%)  
p.K736N (0.0022%)  
p.L212= (0.0022%)  
p.A392V (0.0022%)  
p.I140V (0.0022%)  
p.P379A (0.0022%)  
p.E696Q (0.0022%)  
p.S545Y (0.0022%)  
p.R810W (0.0022%)  
p.R519Hfs\*144 (0.0022%)  
p.F743Lfs\*24 (0.0022%)  
p.R170W (0.0022%)  
p.E567K (0.0022%)  
p.W188Gfs\*12 (0.0022%)  
p.Q420Xfs\*41 (0.0022%)  
p.R1178Q (0.0022%)  
p.D185E (0.0022%)  
p.E42K (0.0022%)  
p.W868del (0.0022%)  
p.M546Wfs\*20 (0.0022%)  
p.C792\* (0.0022%)  
p.H422Y (0.0022%)  
p.R118Vfs\*29 (0.0022%)  
p.I493T (0.0022%)  
p.D285H (0.0022%)  
p.N985S (0.0022%)  
p.K70= (0.0022%)  
p.R630Q (0.0022%)  
p.P329L (0.0022%)  
p.P274S (0.0022%)  
p.Q30E (0.0022%)  
p.F424L (0.0088%)  
p.E740K (0.0088%)  
p.R27C (0.0066%)  
p.A327T (0.0066%)  
p.H45Q (0.0022%)  
p.Q194E (0.0044%)  
p.G394= (0.0044%)  
p.A353T (0.0044%)  
p.M74V (0.0044%)  
p.L251F (0.0044%)  
p.R649C (0.0044%)  
p.Y43H (0.0044%)  
p.E8\* (0.0044%)  
p.S68= (0.0044%)  
p.H306N (0.0044%)  
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p.R161L (0.0044%)  
p.P231Q (0.0022%)  
p.V50A (0.0044%)  
p.Q62Kfs\*3 (0.0044%)  
p.P81S (0.0044%)  
p.I71S (0.0044%)  
p.A52= (0.0022%)  
p.T311= (0.0022%)  
p.D41Y (0.0022%)  
p.L105I (0.0022%)  
p.L361V (0.0022%)  
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p.E290D (0.0022%)  
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p.R514G (0.0022%)  
p.Y734= (0.0022%)  
p.T56= (0.0022%)  
p.E69del (0.0022%)  
p.F172L (0.0022%)  
p.V20= (0.0022%)  
p.F237= (0.0022%)  
p.T164M (0.0022%)  
p.N125= (0.0022%)  
p.L538= (0.0022%)  
p.R256S (0.0022%)  
p.L48V (0.0022%)  
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p.E150Q (0.0022%)  
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p.V83= (0.0022%)  
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p.F254= (0.0022%)  
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p.A628V (0.0022%)  
p.P94= (0.0022%)  
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p.E651D (0.0022%)  
p.G26D (0.0022%)  
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p.D365= (0.0022%)  
p.A22= (0.0022%)  
p.Q38= (0.0022%)  
p.E17\* (0.0022%)  
p.Q203= (0.0022%)  
p.T53P (0.0022%)  
p.S241= (0.0022%)  
p.V234M (0.0022%)  
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p.D402= (0.0022%)  
p.D5Y (0.0022%)  
p.S57del (0.0022%)  
p.F165L (0.0022%)  
p.S108N (0.0022%)  
p.N150Pfs\*25 (0.0022%)  
p.E78\* (0.0022%)  
p.V155E (0.0022%)  
p.G15R (0.0022%)  
p.D601N (0.0022%)  
p.A47Vfs\*4 (0.0022%)  
p.S44Tfs\*4 (0.0022%)  
p.Y135H (0.0022%)  
p.F166= (0.0022%)  
p.V131M (0.0022%)  
p.D546H (0.0022%)  
p.Y97= (0.0022%)  
p.S87T (0.0022%)  
p.G158E (0.0022%)  
p.N104= (0.0022%)  
p.K510N (0.0022%)  
p.Q131E (0.0088%)  
p.G713= (0.0066%)  
p.T74= (0.0044%)  
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p.Q104= (0.0022%)  
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p.M433I (0.0022%)  
p.S322R (0.0022%)  
p.F869= (0.0022%)  
p.L1065= (0.0022%)  
p.Q330\* (0.0022%)  
p.G496R (0.0022%)  
p.D265H (0.0022%)  
p.G142= (0.0022%)  
p.K649= (0.0022%)  
p.G238Kfs\*4 (0.0022%)  
p.E465= (0.0022%)  
p.L77= (0.0022%)  
p.G264S (0.0022%)  
p.E128\* (0.0022%)  
p.D387Y (0.0022%)  
p.F133Lfs\*20 (0.0022%)  
p.L138\* (0.0022%)  
p.S1118\* (0.0022%)  
p.S131R (0.0022%)  
p.Q473= (0.0022%)  
p.E810D (0.0022%)  
p.R456L (0.0022%)  
p.R456= (0.0022%)  
p.F343L (0.0022%)  
p.E222= (0.0022%)  
p.V118F (0.0022%)  
p.E353Q (0.0022%)  
p.L711= (0.0022%)  
p.I250V (0.0022%)  
p.T599P (0.0022%)  
p.K47= (0.0022%)  
p.K552del (0.0022%)  
p.T537= (0.0022%)  
p.V82G (0.0022%)  
p.M44I (0.0022%)  
p.D123Y (0.0022%)  
p.C127= (0.0022%)  
p.N627H (0.0044%)  
p.P1394= (0.0022%)  
p.Q956H (0.0022%)  
p.P1060= (0.0022%)  
p.V1313G (0.0022%)  
p.I3V (0.0022%)  
p.M38V (0.0022%)  
p.A175D (0.0022%)  
p.R581= (0.0022%)  
p.Q1484= (0.0022%)  
p.P1097R (0.0022%)  
p.F1499L (0.0022%)  
p.P1128Tfs\*42 (0.0022%)  
p.F1324Lfs\*37 (0.0022%)  
p.G109S (0.0022%)  
p.S366N (0.0066%)  
p.D58H (0.0044%)  
p.E67Q (0.0044%)  
p.F82L (0.0044%)  
p.S199L (0.0044%)  
p.G142E (0.0044%)  
p.L15Ffs\*41 (0.0044%)  
p.V69L (0.0022%)  
p.L15F (0.0022%)  
p.Q28\* (0.0022%)  
p.L43P (0.0022%)  
p.S175L (0.0022%)  
p.A8N (0.0022%)  
p.A154G (0.0022%)  
p.F152S (0.0022%)  
p.A16V (0.0022%)  
p.M33R (0.0022%)  
p.Y83F (0.0022%)  
p.S195\_I199del (0.0066%)  
p.E164Q (0.0066%)  
p.K127N (0.0022%)  
p.L42F (0.0044%)  
p.G47R (0.0044%)  
p.T121Sfs\*71 (0.0044%)  
p.V21I (0.0044%)  
p.M36I (0.0044%)  
p.Q127\* (0.0044%)  
p.K141N (0.0022%)  
p.R198I (0.0022%)  
p.E1267Q (0.0022%)  
p.H51Q (0.0022%)  
p.P1128S (0.0022%)  
p.R106S (0.0022%)  
p.T290= (0.0022%)  
p.E109K (0.0022%)  
p.R199C (0.0022%)  
p.C456G (0.0022%)  
p.Q754H (0.0022%)  
p.R583Q (0.0022%)  
p.K304R (0.0022%)  
p.A816= (0.0022%)  
p.V840M (0.0022%)  
p.Q138\* (0.0022%)  
p.P613= (0.0022%)  
p.T1166M (0.0022%)  
p.G102= (0.0022%)  
p.Q738\* (0.0022%)  
p.S919Afs\*25 (0.0022%)  
p.E148K (0.0022%)  
p.D276H (0.0022%)  
p.R411H (0.0022%)  
p.H140Q (0.0022%)  
p.S155T (0.0022%)  
p.R125C (0.0022%)  
p.V69I (0.0022%)  
p.S400\* (0.0022%)  
p.S391L (0.0022%)  
p.Q9Cfs\*32 (0.0022%)  
p.G84S (0.0022%)  
p.C106Y (0.0022%)  
p.L142S (0.0022%)  
p.R169H (0.0022%)  
p.C617Y (0.0022%)  
p.I202= (0.0088%)  
p.P189del (0.0066%)  
p.F31L (0.0044%)  
p.A238P (0.0044%)  
p.P184R (0.0044%)  
p.E685D (0.0022%)  
p.L144V (0.0022%)  
p.G676= (0.0022%)  
p.R571Q (0.0022%)  
p.R593K (0.0022%)  
p.R36\* (0.0022%)  
p.S61T (0.0022%)  
p.G634D (0.0022%)  
p.E64= (0.0022%)  
p.P241S (0.0022%)  
p.R547T (0.0022%)  
p.K603= (0.0022%)  
p.R214W (0.0022%)  
p.A244= (0.0022%)  
p.L28= (0.0022%)  
p.G295V (0.0022%)  
p.M597V (0.0022%)  
p.P323T (0.0022%)  
p.T337A (0.0022%)  
p.N384S (0.0022%)  
p.L457= (0.0022%)  
p.T98Rfs\*62 (0.0022%)  
p.A11S (0.0022%)  
p.K276N (0.0022%)  
p.C385S (0.0022%)  
p.E144G (0.0022%)  
p.P346S (0.0022%)  
p.L106Sfs\*35 (0.0022%)  
p.G104del (0.0022%)  
p.T337S (0.0022%)  
p.A72P (0.011%)  
p.A426G (0.0044%)  
p.V234A (0.0022%)  
p.T499= (0.0022%)  
p.R42G (0.0022%)  
p.Q156H (0.0022%)  
p.T172A (0.0022%)  
p.T378P (0.0022%)  
p.N267= (0.0022%)  
p.R314H (0.0022%)  
p.G62E (0.0022%)  
p.I211V (0.0022%)  
p.A445= (0.0022%)  
p.K131R (0.0022%)  
p.D500H (0.0022%)  
p.Y225= (0.0022%)  
p.H68L (0.0022%)  
p.Y155H (0.0022%)  
p.F296L (0.0022%)  
p.S454Y (0.0022%)  
p.C373F (0.0022%)  
p.G336R (0.0022%)  
p.S137\* (0.0022%)  
p.D462E (0.0022%)  
p.V151= (0.0022%)  
p.Q380\* (0.0022%)  
p.R235P (0.0022%)  
p.S171G (0.0066%)  
p.I8= (0.0022%)  
p.D31H (0.0044%)  
p.T56S (0.0044%)  
p.N170Y (0.0044%)  
p.V464F (0.0044%)  
p.R64Qfs\*16 (0.0044%)  
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p.E247del (0.0022%)  
p.E436V (0.0022%)  
p.R43= (0.0022%)  
p.A100= (0.0022%)  
p.E115= (0.0022%)  
p.R27= (0.0022%)  
p.H456P (0.0022%)  
p.M368I (0.0022%)  
p.A26S (0.0022%)  
p.P236S (0.0022%)  
p.E155\* (0.0022%)  
p.E361K (0.0022%)  
p.T440Pfs\*133 (0.0022%)  
p.G103C (0.0022%)  
p.V30F (0.0022%)  
p.L392= (0.0022%)  
p.L254Pfs\*76 (0.0022%)  
p.E365= (0.0022%)  
p.R304H (0.0022%)  
p.T33I (0.0022%)  
p.L15P (0.0022%)  
p.D17E (0.0022%)  
p.L104= (0.0022%)  
p.S336= (0.0022%)  
p.G201A (0.0022%)  
p.V36Gfs\*27 (0.0022%)  
p.S287C (0.0022%)  
p.G126S (0.0022%)  
p.L203S (0.0022%)  
p.G214= (0.0022%)  
p.L156V (0.0022%)  
p.R77H (0.0022%)  
p.L14Vfs\*9 (0.0022%)  
p.S56R (0.0022%)  
p.N280S (0.0022%)  
p.V368F (0.0022%)  
p.Y147= (0.0022%)  
p.G98R (0.0022%)  
p.F188= (0.0022%)  
p.E318K (0.0022%)  
p.V405A (0.0022%)  
p.Q6H (0.0022%)  
p.V312I (0.0022%)  
p.W197R (0.0022%)  
p.V346del (0.0022%)  
p.Q157R (0.0022%)  
p.R3G (0.0022%)  
p.S193= (0.0022%)  
p.T333N (0.0022%)  
p.I400L (0.0022%)  
p.T5I (0.0022%)  
p.T109P (0.0022%)  
p.P155S (0.0044%)  
p.E192\* (0.0044%)  
p.K272N (0.0044%)  
p.A139D (0.0044%)  
p.E47Q (0.0044%)  
p.Y338F (0.0044%)  
p.D497H (0.0044%)  
p.S290R (0.0044%)  
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p.T470S (0.0022%)  
p.R113W (0.0022%)  
p.P264H (0.0022%)  
p.P265Q (0.0022%)  
p.S360= (0.0022%)  
p.S352= (0.0022%)  
p.E478Q (0.0022%)  
p.R156C (0.0022%)  
p.H68Y (0.0022%)  
p.P48S (0.0022%)  
p.T485P (0.0022%)  
p.V41= (0.0022%)  
p.C241= (0.0022%)  
p.H445D (0.0022%)  
p.V306Gfs\*31 (0.0022%)  
p.S322T (0.0022%)  
p.Q197R (0.0022%)  
p.E464Q (0.0022%)  
p.H63Q (0.0022%)  
p.A93T (0.0022%)  
p.Q277K (0.0022%)  
p.G503E (0.0022%)  
p.L514Afs\*4 (0.0022%)  
p.D537N (0.0022%)  
p.E159A (0.0022%)  
p.P233A (0.0022%)  
p.K476= (0.0022%)  
p.L263= (0.0022%)  
p.V72= (0.0022%)  
p.E62D (0.0022%)  
p.R211\* (0.0022%)  
p.T485= (0.0022%)  
p.H340del (0.0022%)  
p.C588F (0.0022%)  
p.G246del (0.0022%)  
p.V467G (0.0022%)  
p.V105I (0.0022%)  
p.K479Q (0.0022%)  
p.G32= (0.0022%)  
p.D259= (0.0022%)  
p.Q36Afs\*192 (0.0022%)  
p.Y171S (0.0022%)  
p.P397T (0.0022%)  
p.A204T (0.0022%)  
p.N42I (0.0022%)  
p.N149I (0.0022%)  
p.C69F (0.0022%)  
p.Q146K (0.0022%)  
p.Y489F (0.0022%)  
p.L189V (0.0022%)  
p.R233K (0.0022%)  
p.Q335E (0.0022%)  
p.K221E (0.0022%)  
p.K58N (0.0022%)  
p.S32C (0.0044%)  
p.S329L (0.0044%)  
p.P122T (0.0044%)  
p.G288A (0.0044%)  
p.E102Q (0.0044%)  
p.S164R (0.0022%)  
p.H299P (0.0022%)  
p.R135Sfs\*12 (0.0022%)  
p.V118= (0.0022%)  
p.E95del (0.0022%)  
p.E279= (0.0022%)  
p.V81A (0.0022%)  
p.T106N (0.0022%)  
p.A333V (0.0022%)  
p.A306D (0.0022%)  
p.T81A (0.0022%)  
p.K168= (0.0022%)  
p.D136N (0.0022%)  
p.S35W (0.0022%)  
p.D271H (0.0022%)  
p.P67R (0.0022%)  
p.T220M (0.0022%)  
p.L9Pfs\*24 (0.0022%)  
p.E41Gfs\*33 (0.0088%)  
p.E41Rfs\*19 (0.0044%)  
p.E167K (0.0044%)  
p.T127S (0.0044%)  
p.E405\_D408del (0.0044%)  
p.F6= (0.0022%)  
p.E131K (0.0022%)  
p.M33I (0.0022%)  
p.T286P (0.0022%)  
p.M138I (0.0022%)  
p.R89Efs\*44 (0.0022%)  
p.P13= (0.0022%)  
p.F332C (0.0022%)  
p.D227G (0.0022%)  
p.I166= (0.0022%)  
p.K62N (0.0022%)  
p.W107\* (0.0022%)  
p.G315A (0.0022%)  
p.R89Q (0.0022%)  
p.V299A (0.0022%)  
p.E386G (0.0022%)  
p.S194I (0.0022%)  
p.F116L (0.0066%)  
p.R33C (0.0066%)  
p.R33P (0.0022%)  
p.I175N (0.0044%)  
p.M183I (0.0044%)  
p.T227I (0.0044%)  
p.R13P (0.0044%)  
p.A156del (0.0044%)  
p.Q162K (0.0044%)  
p.S259A (0.0022%)  
p.R630= (0.0022%)  
p.S873C (0.0022%)  
p.W212\* (0.0022%)  
p.I58= (0.0022%)  
p.R54C (0.0022%)  
p.G14= (0.0022%)  
p.I199N (0.0022%)  
p.D188N (0.0022%)  
p.L255= (0.0022%)  
p.G297V (0.0022%)  
p.K182del (0.0022%)  
p.Q260\* (0.0022%)  
p.S135\* (0.0022%)  
p.S656Y (0.0022%)  
p.Y153= (0.0022%)  
p.E50Q (0.0022%)  
p.T387S (0.0022%)  
p.G209R (0.0022%)  
p.E62K (0.0022%)  
p.G37E (0.0022%)  
p.Q899R (0.0022%)  
p.S146R (0.0022%)  
p.P240L (0.0022%)  
p.R105= (0.0022%)  
p.L172I (0.0022%)  
p.Y38Sfs\*45 (0.0022%)  
p.E36Dfs\*34 (0.0022%)  
p.E35Gfs\*48 (0.0022%)  
p.R33Hfs\*51 (0.0022%)  
p.D629H (0.0022%)  
p.R77= (0.0022%)  
p.R114= (0.0022%)  
p.A296= (0.0022%)  
p.Y5\* (0.0022%)  
p.E141Rfs\*68 (0.0022%)  
p.A97G (0.0022%)  
p.S201\* (0.0022%)  
p.F81S (0.0022%)  
p.C194S (0.0022%)  
p.E111K (0.0022%)  
p.I84T (0.0022%)  
p.G417Sfs\*6 (0.0022%)  
p.P854S (0.0022%)  
p.R167C (0.0022%)  
p.C152R (0.0022%)  
p.V105D (0.0022%)  
p.N57Efs\*12 (0.0022%)  
p.R172C (0.0022%)  
p.V148= (0.0066%)  
p.F161L (0.0044%)  
p.R210W (0.0044%)  
p.A309V (0.0044%)  
p.R134Qfs\*49 (0.0044%)  
p.Y26F (0.0022%)  
p.Q252E (0.0022%)  
p.T93= (0.0022%)  
p.S46\* (0.0022%)  
p.C121S (0.0022%)  
p.E176= (0.0022%)  
p.I70L (0.0022%)  
p.R32C (0.0022%)  
p.S370R (0.0022%)  
p.G195W (0.0022%)  
p.L216= (0.0022%)  
p.I97M (0.0022%)  
p.R132Q (0.0022%)  
p.T251= (0.0022%)  
p.T163N (0.0022%)  
p.R230H (0.0022%)  
p.T179P (0.0022%)  
p.R62L (0.0022%)  
p.T218A (0.0022%)  
p.F157S (0.0022%)  
p.R188Q (0.0022%)  
p.D107Cfs\*7 (0.0022%)  
p.S142A (0.0022%)  
p.L40= (0.0066%)  
p.S6P (0.0044%)  
p.K161N (0.0044%)  
p.T163P (0.0044%)  
p.G213E (0.0022%)  
p.Q92H (0.0022%)  
p.G232= (0.0022%)  
p.P39= (0.0022%)  
p.R228C (0.0022%)  
p.G303A (0.0022%)  
p.Y219= (0.0022%)  
p.L315= (0.0022%)  
p.D536= (0.0022%)  
p.I86L (0.0022%)  
p.C6F (0.0022%)  
p.A44= (0.0022%)  
p.A211Pfs\*48 (0.0022%)  
p.G41= (0.0022%)  
p.R479W (0.0022%)  
p.V518G (0.0022%)  
p.R385W (0.0022%)  
p.P211= (0.0022%)  
p.S120I (0.0022%)  
p.K283M (0.0022%)  
p.I130M (0.0066%)  
p.H55Y (0.0066%)  
p.S251N (0.0066%)  
p.G116= (0.0044%)  
p.R46W (0.0044%)  
p.R101Afs\*19 (0.0044%)  
p.L262= (0.0022%)  
p.L307M (0.0022%)  
p.I91= (0.0022%)  
p.Q206K (0.0022%)  
p.V219= (0.0022%)  
p.Q70= (0.0022%)  
p.F306L (0.0022%)  
p.G59D (0.0022%)  
p.I304N (0.0022%)  
p.A304V (0.0022%)  
p.P213R (0.0022%)  
p.N170K (0.0022%)  
p.H298= (0.0022%)  
p.N302Y (0.0022%)  
p.L582F (0.0022%)  
p.P412Lfs\*70 (0.0022%)  
p.L129F (0.0022%)  
p.I227V (0.0022%)  
p.S148R (0.0022%)  
p.V241G (0.0022%)  
p.L86= (0.0022%)  
p.H140R (0.0022%)  
p.W294Lfs\*5 (0.0022%)  
p.Q155\* (0.0022%)  
p.L640= (0.0022%)  
p.I142= (0.0022%)  
p.L492= (0.0022%)  
p.G269= (0.0022%)  
p.A750V (0.0022%)  
p.Y294Ifs\*4 (0.0022%)  
p.S45L (0.0022%)  
p.F60S (0.0022%)  
p.R49K (0.0022%)  
p.S277F (0.0022%)  
p.A81V (0.0022%)  
p.A311= (0.0022%)  
p.D175Y (0.0022%)  
p.A358T (0.0022%)  
p.C32G (0.0022%)  
p.L273P (0.0022%)  
p.Q421\* (0.0022%)  
p.P454S (0.0022%)  
p.K133R (0.0022%)  
p.G184C (0.0022%)  
p.P112= (0.0022%)  
p.G93= (0.0022%)  
p.R96H (0.0022%)  
p.H236\_Q237insL (0.0022%)  
p.R52G (0.0022%)  
p.R160H (0.0022%)  
p.R209C (0.0022%)  
p.A187P (0.0022%)  
p.Y294C (0.0022%)  
p.E233K (0.0044%)  
p.R223Q (0.0044%)  
p.A265S (0.0044%)  
p.V81Gfs\*37 (0.0044%)  
p.G91C (0.0044%)  
p.D28N (0.0022%)  
p.P251= (0.0044%)  
p.D196H (0.0044%)  
p.L186V (0.0044%)  
p.R240Q (0.0022%)  
p.G43E (0.0022%)  
p.G29V (0.0022%)  
p.D84H (0.0022%)  
p.G201R (0.0022%)  
p.G20S (0.0044%)  
p.S415= (0.0044%)  
p.F298L (0.0044%)  
p.H84Y (0.0044%)  
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p.V285F (0.0022%)  
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p.V17= (0.0022%)  
p.P204= (0.0022%)  
p.Q306H (0.0022%)  
p.S111Pfs\*12 (0.0022%)  
p.E278\* (0.0022%)  
p.A135= (0.0022%)  
p.S210L (0.0022%)  
p.T159P (0.0022%)  
p.M165I (0.0022%)  
p.Q143L (0.0022%)  
p.E260= (0.0022%)  
p.L278= (0.0022%)  
p.Q58= (0.0022%)  
p.R186Q (0.0022%)  
p.E281K (0.0022%)  
p.I309V (0.0022%)  
p.E87Q (0.0022%)  
p.D117A (0.0022%)  
p.E182G (0.0022%)  
p.E244del (0.0022%)  
p.W238\* (0.0022%)  
p.Q283= (0.0022%)  
p.E188Q (0.0022%)  
p.A66Cfs\*3 (0.0022%)  
p.S38L (0.0022%)  
p.N326T (0.0022%)  
p.A326V (0.0022%)  
p.S110R (0.0022%)  
p.E238K (0.0022%)  
p.L327= (0.0022%)  
p.D314= (0.0022%)  
p.L319= (0.0022%)  
p.R181G (0.0022%)  
p.S349= (0.0022%)  
p.Q290\* (0.0022%)  
p.K15Rfs\*5 (0.0088%)  
p.G473S (0.0044%)  
p.E474K (0.0044%)  
p.L283= (0.0022%)  
p.L36V (0.0022%)  
p.P300= (0.0022%)  
p.E10K (0.0022%)  
p.H264Afs\*6 (0.0022%)  
p.V51= (0.0022%)  
p.R137W (0.0022%)  
p.H35Y (0.0022%)  
p.E111Rfs\*57 (0.0022%)  
p.I65M (0.0022%)  
p.C298W (0.0022%)  
p.E80G (0.0022%)  
p.Q46= (0.0022%)  
p.A138G (0.0022%)  
p.E333\* (0.0022%)  
p.G461A (0.0022%)  
p.Q122\* (0.0022%)  
p.E68D (0.0022%)  
p.F275= (0.0022%)  
p.S266T (0.0022%)  
p.L491Q (0.0022%)  
p.S260Y (0.0022%)  
p.M62I (0.0044%)  
p.D176H (0.0044%)  
p.V170I (0.0022%)  
p.D113H (0.0022%)  
p.E29= (0.0022%)  
p.M114I (0.0022%)  
p.E220D (0.0022%)  
p.S245F (0.0022%)  
p.E205G (0.0022%)  
p.A142S (0.0022%)  
p.T223M (0.0022%)  
p.N19H (0.0022%)  
p.T115= (0.0022%)  
p.I264= (0.0022%)  
p.I252= (0.0022%)  
p.D55N (0.0022%)  
p.H76= (0.0022%)  
p.P177= (0.0022%)  
p.H202Y (0.0022%)  
p.T159= (0.0022%)  
p.I113= (0.0022%)  
p.L180= (0.0022%)  
p.S244L (0.0022%)  
p.E94\* (0.0022%)  
p.Q664= (0.0022%)  
p.A128V (0.0022%)  
p.M669V (0.0022%)  
p.H187N (0.0022%)  
p.L91= (0.0022%)  
p.P625= (0.0022%)  
p.R110= (0.0022%)  
p.Y15= (0.0022%)  
p.V205= (0.0022%)  
p.H240= (0.0022%)  
p.G259S (0.0022%)  
p.H76Q (0.0022%)  
p.L114= (0.0022%)  
p.Q264Pfs\*25 (0.0044%)  
p.Y22= (0.0022%)  
p.P272H (0.0022%)  
p.S6= (0.0022%)  
p.L70P (0.0022%)  
p.S14L (0.0022%)  
p.D202N (0.0022%)  
p.S32L (0.0022%)  
p.A18V (0.0022%)  
p.S91C (0.0022%)  
p.P53= (0.0022%)  
p.P86= (0.0022%)  
p.R26= (0.0022%)