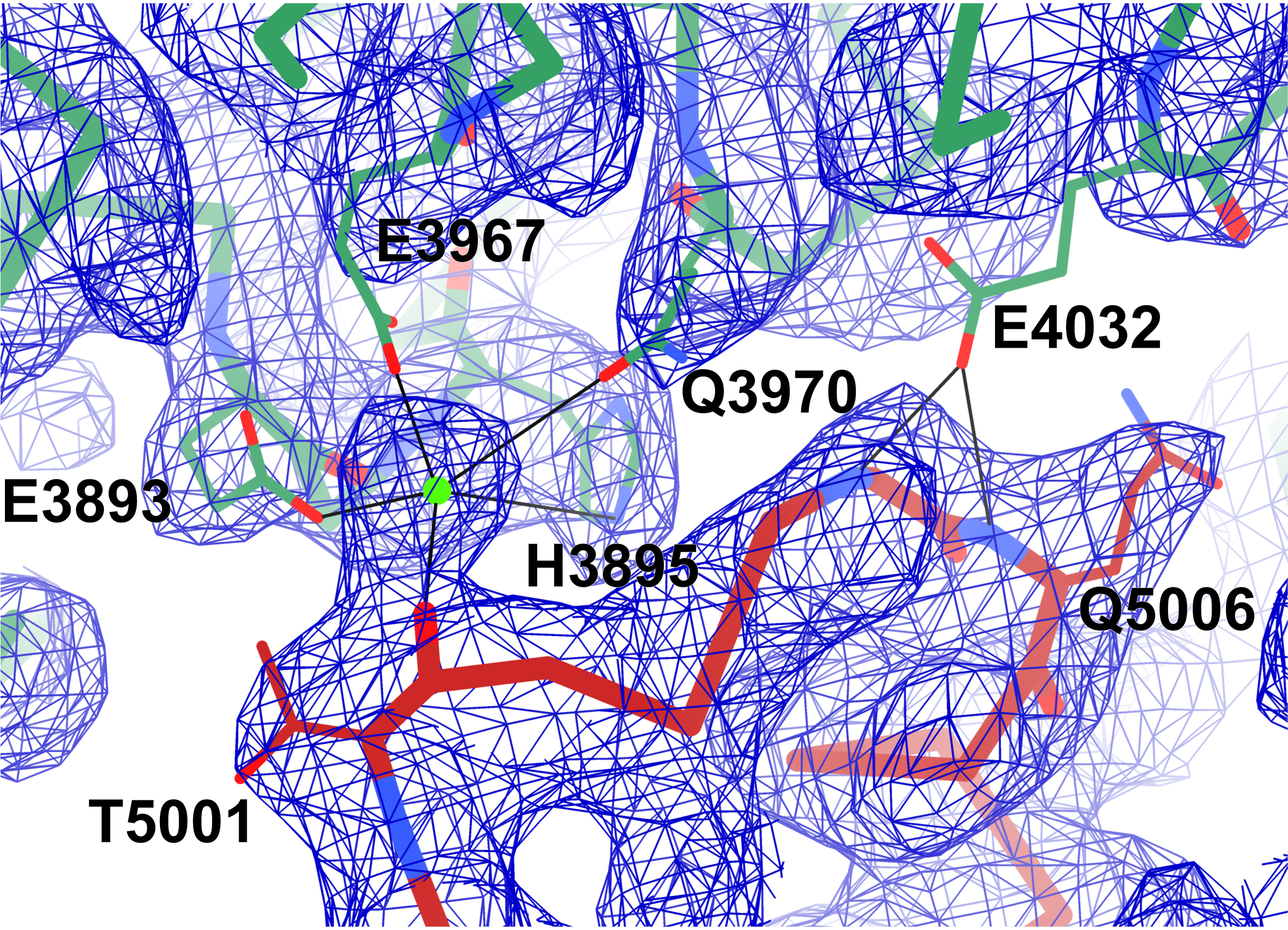
A



B

```
                                                  E3893   H3895
                                                   *       *
RYR1_RABIT(P11716)     3867 NRQNGE-KVMADDEFTQDLFRFLQLLCEGHNNDFQNYLRTQTGNTTTINIIICTVDYLLRLQESISDFYWYYSGKDVIEEQGKRNFSKAMSVAKQVF 3962
RYR1_HUMAN(P21817)     3866 NRQNGE-KVMADDEFTQDLFRFLQLLCEGHNNDFQNYLRTQTGNTTTINIIICTVDYLLRLQESISDFYWYYSGKDVIEEQGKRNFSKAMSVAKQVF 3961
RYR2_HUMAN(Q92736)     3826 ----GE-KVLQDDEFTCDLFRFLQLLCEGHNSDFQNYLRTQTGNNTTVNIIISTVDYLLRVQESISDFYWYYSGKDVIDEQGQRNFSKAIQVAKQVF 3917
RYR3_HUMAN(Q15413)     3718 VRERGE-KVLQNDEFTRDLFRFLQLLCEGHNSDFQNFLRTQMGNTTTVNVIISTVDYLLRLQESISDFYWYYSGKDIIDESGQHNFSKALAVTKQIF 3813
RYR_DROME(Q24498)      4001 ----GE-KNMHDAEFTCALFRFIQLTCEGHNLEWQNYLRTQAGNTTTVNVVICTVDYLLRLQESIMDFYWHYSSKEIIDPAGKANFFKAIEVASQVF 4092
RYR_CAEEL(P91905)      3984 ----GDNQNLNDADFTCSLFRFLQLTCEGHNLEFQNYLRTQPGHTTSVNLINCTVDYLLRLQESVMDFYWHYSSKEVIDEGGKEYFLRAIQVCSQVF 4076
ITPR3_HUMAN(Q14573)    1869 --------------IMQPILRFLQLLCENHNRDLQNFLRCQ-NNKTNYNLVCETLQFLDIMCGSTT------GGLGLL---GLYINEDNVGLVIQTL 1941
ITPR3_RAT(Q63269)      1868 --------------IMRPILRFLQLLCENHNRDLQNFLRCQ-NNKTNYNLVCETLQFLDIMCGSTT------GGLGLL---GLYINEDNVGLVIQTL 1940
ITPR1_HUMAN(Q14643)    1973 --------------IMQPILRFLQLLCENHNRDLQNFLRCQ-NNKTNYNLVCETLQFLDCICGSTT------GGLGLL---GLYINEKNVALINQTL 2045
ITPR1_RAT(P29994)      1965 --------------IMQPILRFLQLLCENHNRDLQNFLRCQ-NNKTNYNLVCETLQFLDCICGSTT------GGLGLL---GLYINEKNVALINQTL 2037
ITPR2_HUMAN(Q14571)    1917 --------------IMQPILRFLQLLCENHNRELQNFLRNQ-NNKTNYNLVCETLQFLDCICGSTT------GGLGLL---GLYINEKNVALVNQNL 1989
ITPR2_RAT(P29995)      1917 --------------IMRPILRFLQLLCENHNRELQNFLRNQ-NNKTNYNLVCETLQFLDCICGSTT------GGLGLL---GLYINEKNVALVNQTL 1989

                                E3967   Q3970                                                   E4032
                                 *       *                                                       *
RYR1_RABIT(P11716)     3963 NSLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMMMKLAQDSSQIELLKELLDLQKDMVVMLLSLLEGNVVNGMIARQMVDMLVESSSNVEMIL 4059
RYR1_HUMAN(P21817)     3962 NSLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMMMKLAQDSSQIELLKELLDLQKDMVVMLLSLLEGNVVNGMIARQMVDMLVESSSNVEMIL 4058
RYR2_HUMAN(Q92736)     3918 NTLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMQMKLSQDSSQIELLKELMDLQKDMVVMLLSMLEGNVVNGTIGKQMVDMLVESSNNVEMIL 4014
RYR3_HUMAN(Q15413)     3814 NSLTEYIQGPCIGNQQSLAHSRLWDAVVGFLHVFANMQMKLSQDSSQIELLKELLDLLQDMVVMLLSLLEGNVVNGTIGKQMVDTLVESSTNVEMIL 3910
RYR_DROME(Q24498)      4093 NTLTEVIQGPCTLNQQALAHSRLWDAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVVNGTIGKQMVDTLVESASNVELIL 4189
RYR_CAEEL(P91905)      4077 NTLTESIQGPCVGNQMTLANSRLWDAINGFFFLFAHMMEKLYKNSTQLELLREFLNLQKDMIVLMLSMLEGNVLNGSIGKQMVDALVESQPSVEKIL 4173
ITPR3_HUMAN(Q14573)    1942 ETLTEYCQGPCHENQTCIV----------------------THESNGIDIITAL--ILNDI--------------SPLCKYRMDLVLQLKDNASKLL 2000
ITPR3_RAT(Q63269)      1941 ETLTEYCQGPCHENQTCIV----------------------THESNGIDIITAL--ILNDI--------------SPLCKYRMDLVLQLKDNASKLL 1999
ITPR1_HUMAN(Q14643)    2046 ESLTEYCQGPCHENQNCIA----------------------THESNGIDIITAL--ILNDI--------------NPLGKKRMDLVLELKNNASKLL 2104
ITPR1_RAT(P29994)      2038 ESLTEYCQGPCHENQNCIA----------------------THESNGIDIITAL--ILNDI--------------NPLGKKRMDLVLELKNNASKLL 2096
ITPR2_HUMAN(Q14571)    1990 ESLTEYCQGPCHENQTCIA----------------------THESNGIDIIIAL--ILNDI--------------NPLGKYRMDLVLQLKNNASKLL 2048
ITPR2_RAT(P29995)      1990 ESLTEYCQGPCHENQTCIA----------------------THESNGIDIIIAL--ILSDI--------------NPLGKYRMDLVLQLKNNASKLL 2048
```