## **Description of Additional Supplementary Files Document**

**Supplementary Dataset 1** - AlphaFold prediction model and log files from ColabFold for human P2X1

**Supplementary Dataset 2** - AlphaFold prediction model and log files from ColabFold for human P2X2.

**Supplementary Movie 1** - BX430-dependent structural changes of zfP2X4.