**Table S1:** Involvement of the Channel 1 residues in the formation of the H-bonded networks.

|  |  |  |
| --- | --- | --- |
| residue | <Nwats> | <NHBs> |
| Glu135 | 3.8 | 1.3 |
| Arg134 | 6.5 | 2.2 |
| Asp198 | 4.0 | 2.3 |
| Lys199 | 4.9 | 1.2 |
| Glu70c | 7.0 | 3.6 |
| Glu57c | 5.5 | 2.6 |
| Lys53c | 3.4 | 0.5 |

<Nwats> is the average number of water molecules around each residue sidechain. <NHBs> is the average number of HBs formed between each residue and nearby water molecules.