Assembly Instructions

Please allot approximately 45 minutes to assemble protein channels and affix stickers to pieces before use (per kit). Follow these step-by-step instructions to ensure proper assembly. (Multiply the number of proteins and pieces by 3 if you have the 3-Group Kit.)

Channel Assembly

Punch out each gray, foam channel protein while using the letters (A,B,C,D,E) as guides to match up the corresponding gray, sticky-back foam pieces and gray, foam paddles.

1 Aquaporin (D) and 1 K⁺ Leak Channel (E)

Affix 2 top and 2 underside gray, sticky-back foam pieces to each of these channels, as shown in the illustrations to the right. The longer top pieces should be affixed to the side with the deepest imprinted arrow, parallel with the arrow. The shorter underside pieces should be affixed to the back, perpendicular to the arrow. Please note: all gray, sticky-back pieces should line up with the edges of the channels when you attach them.

1 GLUT Carrier Protein (A), 1 Na⁺/K⁺ Pump (C) and 1 Gated K⁺ Channel (B)

The gray, sticky-back foam pieces that correspond with each of these channels go on the underside only (where the imprinted arrow is fainter), perpendicular to the arrow. Once the underside pieces are affixed, flip the channels over and proceed with paddle assembly, following the illustrations and directions below.

Assembled Channels

We have provided optional sticker labels for the channel proteins. You may elect to use either the name labels or the letter labels, or both. They may be placed on the tops or undersides of the pieces.
Please allot approximately 45 minutes to assemble protein channels and affix stickers to pieces before use (per kit). Follow these step-by-step instructions to ensure proper assembly. (Multiply the number of proteins and pieces by 3 if you have the 3-Group Kit.)

### 50 Mini Phospholipids

**Negative Charge**

Affix medium red stickers with black negative charge symbols to the yellow, foam mini phospholipids pieces, as shown in the illustration.

### 5 Glucose and 1 ATP

Affix stickers to the 5 gray, foam glucose pieces and 1 gray, foam ATP piece, as shown in the illustration.

### 30 H₂O

Affix small red stickers to the 30 white, foam H₂O pieces, as shown in the illustration.

### Large Phospholipids

Affix large red, blue and yellow stickers and medium white stickers to the gray, foam phospholipid pieces, as shown in the illustrations below.