



## Cell-Based Assays validated on QPatch 16X

Axxam has a long-standing experience in working with electrogenic proteins and a deep understanding of ion channels' biology. Hereafter some assays for both ligand- and voltage-gated ion channels on QPatch 16X.

Cell-Based Assays validated on QPatch 16X			
Sub-family	Symbol	Aliases / Other Designations	GeneID
Ligand gated cationic channels	<b>P2RX2/3</b>	Purinergic receptor P2X, ligand-gated ion channel, 2 / 3	22953 / 5024
	<b>P2RX3</b>	Purinergic receptor P2X, ligand-gated ion channel, 3	5024
	<b>P2RX4</b>	Purinergic receptor P2X, ligand-gated ion channel, 4	5025
Transient receptor potential channels	<b>TRPM2</b>	Transient receptor potential cation channel, subfamily M, member 2	7226
	<b>TRPM8</b>	Transient receptor potential cation channel, subfamily M, member 8	79054
	<b>TRPV1</b>	Transient receptor potential cation channel, subfamily V, member 1	7442
	<b>TRPV4</b>	Transient receptor potential cation channel, subfamily V, member 4	59341
	<b>TRPA1</b>	Transient receptor potential cation channel, subfamily A, member 1	8989
Voltage gated Na <sup>+</sup> channels	<b>SCN5A (Nav1.5)</b>	Na <sup>+</sup> channel, voltage-gated, type V, alpha subunit	6331
	<b>SCN9A (Nav1.7)</b>	Na <sup>+</sup> channel, voltage-gated, type IX, alpha subunit	6335
Voltage gated K <sup>+</sup> channels	<b>KCNA5 (Kv1.5)</b>	K <sup>+</sup> voltage-gated channel, Shaker-related subfamily A, member 5	3741
	<b>KCNB1 (Kv2.1)</b>	K <sup>+</sup> voltage-gated channel, Shab-related subfamily B, member 1	3745
	<b>KCNH2 (Kv11.1)</b>	K <sup>+</sup> voltage-gated channel, eag related subfamily H, member 2	3757
Inwardly rectifying K <sup>+</sup> channels	<b>KCNJ4 (Kir2.3)</b>	K <sup>+</sup> inwardly-rectifying channel, subfamily J, member 4	3761
	<b>KCNJ2 (Kir2.1)</b>	K <sup>+</sup> inwardly-rectifying channel, subfamily J, member 2	3759
Cyclic nucleotide-regulated channels	<b>BCNG2 (HCN2)</b>	hyperpolarization activated cyclic nucleotide gated K <sup>+</sup> channel 2	610

### The QPatch 16X based Automated Patch Clamp unit allows:

- ✓ More than 300 data points per day
- ✓ Medium throughput screening for hit discovery, hit confirmation and **cardiac safety**
- ✓ Compound profiling on ready-to-use Axxam assays or on adapted client assays

*Please note that provision of some of the above listed assays may require third party licenses. All products are for research use only.*