

Gene Symbol	Gene Name		NCBI Gene Ref	Chromosome	Assay ID	Target Exons	Category
18S RNA	18S RNA	Eukaryotic 18s rRNA	X03205	9	4342379-18S	N/A	endogenous control
ABCC8	SUR1	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	NM_000352,U63421	11	Hs00165861_m1	16	K ⁺ channel
ABCC9	SUR2	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	NM_005691,NM_02	12	Hs00245832_m1	28	K ⁺ channel
ATP1A1	Na/K-ATPase α 1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	NM_001001586,NM	1	Hs00167556_m1	15	Na ⁺ /K ⁺ ATPase
ATP1A3	Na/K-ATPase α 3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	NM_152296,BC0092	19	Hs00265163_m1	N/A	Na ⁺ /K ⁺ ATPase
ATP1B1	Na/K-ATPase β 1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	NM_001001787,NM	1	Hs00426868_g1	5	Na ⁺ /K ⁺ ATPase
ATP2A2	SERCA2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	NM_001681,M23115	12	Hs00155939_m1	20	Ca ⁺⁺ regulator
ATP2A3	SERCA3	ATPase, Ca ⁺⁺ transporting, ubiquitous	NM_174953,NM_17	17	Hs00193090_m1	17	Ca ⁺⁺ regulator
ATP2B1	PMCA1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1	NM_001001323,NM	12	Hs00155949_m1	11	Ca ⁺⁺ regulator
ATP2B4	PMCA4	ATPase, Ca ⁺⁺ transporting, plasma membrane 4	NM_001001396,NM	1	Hs00608066_m1	1	Ca ⁺⁺ regulator
CACNA1C	Cav1.2	calcium channel, voltage-dependent, L type, alpha 1C subunit	NM_000719,L29529	12	Hs00167681_m1	2	Ca ⁺⁺ channel
CACNA1D	Cav1.3	calcium channel, voltage-dependent, L type, alpha 1D subunit	NM_000720,M83566	3	Hs00167753_m1	47	Ca ⁺⁺ channel
CACNA1G	Cav3.1	calcium channel, voltage-dependent, alpha 1G subunit	NM_018896,NM_19	17	Hs00367969_m1	4	Ca ⁺⁺ channel
CACNA1H	Cav3.2	calcium channel, voltage-dependent, alpha 1H subunit	NM_021098,AF0519	16	Hs00234934_m1	1	Ca ⁺⁺ channel
CACNA2D1	Cav α 2 δ 1	calcium channel, voltage-dependent, alpha 2/delta subunit 1	NM_000722,M76559	7	Hs00167808_m1	13	Ca ⁺⁺ channel
CACNA2D2	Cav α 2 δ 2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	NM_006030,AB0111	3	Hs00195772_m1	6	Ca ⁺⁺ channel
CACNB2	Cav β 2	calcium channel, voltage-dependent, beta 2 subunit	NM_201593,NM_20	10	Hs00167861_m1	9	Ca ⁺⁺ channel
CACNG4	Cav γ 4	calcium channel, voltage-dependent, gamma subunit 4	NM_014405,AF1626	17	Hs00205244_m1	2	Ca ⁺⁺ channel
CACNG5	Cav γ 5	calcium channel, voltage-dependent, gamma subunit 5	NM_145811,NM_14	17	Hs00274241_m1	1	Ca ⁺⁺ channel
CACNG6	Cav γ 6	calcium channel, voltage-dependent, gamma subunit 6	NM_145814,NM_14	19	Hs00230428_m1	N/A	Ca ⁺⁺ channel
CALM1	CALM1	calmodulin 1 (phosphorylase kinase, delta)	NM_006888,BX5376	14	Hs00300085_s1	6	Ca ⁺⁺ regulator
CALM3	CALM3	calmodulin 3 (phosphorylase kinase, delta)	NM_005184,J04046	19	Hs00270914_m1	1	Ca ⁺⁺ regulator
CASQ1	CASQ1	calsequestrin 1 (fast-twitch, skeletal muscle)	NM_001231,S73775	1	Hs00154281_m1	6	Ca ⁺⁺ regulator
CASQ2	CASQ2	calsequestrin 2 (cardiac muscle)	NM_001232,D55655	1	Hs00415779_m1	N/A	Ca ⁺⁺ regulator
CFTR	CFTR	cystic fibrosis transmembrane conductance regulator, ATP-binding cassette	NM_000492,M28666	7	Hs00357011_m1	21	Cl ⁻ channel
CLCN2	CIC2	chloride channel 2	NM_004366,AF0260	3	Hs00189078_m1	1	Cl ⁻ channel
CLCN3	CIC3	chloride channel 3	NM_001829,X78520	4	Hs00156527_m1	12	Cl ⁻ channel
CLCN6	CIC6	chloride channel 6	NM_001286,NM_02	1	Hs00154518_m1	4	Cl ⁻ channel
CLCN7	CIC7	chloride channel 7	NM_001287,Z67743	16	Hs00241850_m1	1	Cl ⁻ channel
G6PD	G6PD	glucose-6-phosphate dehydrogenase	NM_000402,M21248	X	Hs00166169_m1	2	endogenous control
GJA1	Cx43	gap junction protein, alpha 1, 43kDa (connexin 43)	NM_000165,M65188	6	Hs00748445_s1	10	Connexin
GJA5	Cx40	gap junction protein, alpha 5, 40kDa (connexin 40)	NM_181703,NM_00	1	Hs00270952_s1	1	Connexin
GJA7	Cx45	gap junction protein, alpha 7, 45kDa (connexin 45)	NM_005497,AK1243	17	Hs00271416_s1	8	Connexin
HCN1	HCN1	hyperpolarization activated cyclic nucleotide-gated potassium channel 1	NM_021072,AF0648	5	Hs00395037_m1	1	Cation channel
HCN2	HCN2	hyperpolarization activated cyclic nucleotide-gated potassium channel 2	NM_001194,AJ0125	19	Hs00606903_m1	2	Cation channel
HCN3	HCN3	hyperpolarization activated cyclic nucleotide-gated potassium channel 3	NM_020897,AB0409	1	Hs00380018_m1	3	Cation channel
HCN4	HCN4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4	NM_005477,AJ1324	15	Hs00175760_m1	1	Cation channel
HPRT1	HPRT	hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)	NM_000194,M31642	X	Hs99999909_m1	N/A	endogenous control
ISYNA1	ISYNA1	myo-inositol 1-phosphate synthase A1	NM_016368,AF2205	19	Hs00375021_g1	5	endogenous control

ITPR1	IP3R1	inositol 1,4,5-triphosphate receptor, type 1	NM_002222,D26070	3	Hs00181881_m1	3	Ca ⁺⁺ regulator
ITPR3	IP3R3	inositol 1,4,5-triphosphate receptor, type 3	NM_002224,D26351	6	Hs00609908_m1	1	Ca ⁺⁺ regulator
KCNA1	Kv1.1	potassium voltage-gated channel, shaker-related subfamily, member 1	NM_000217,L02750	12	Hs00264798_s1	8	K ⁺ channel
KCNA2	Kv1.2	potassium voltage-gated channel, shaker-related subfamily, member 2	NM_004974,L02752	1	Hs00270656_s1	8	K ⁺ channel
KCNA3	Kv1.3	potassium voltage-gated channel, shaker-related subfamily, member 3	NM_002232,M85217	1	Hs00704943_s1	22	K ⁺ channel
KCNA4	Kv1.4	potassium voltage-gated channel, shaker-related subfamily, member 4	NM_002233,M55514	11	Hs00357903_s1	1	K ⁺ channel
KCNA5	Kv1.5	potassium voltage-gated channel, shaker-related subfamily, member 5	NM_002234,M83254	12	Hs00266898_s1	7	K ⁺ channel
KCNA6	Kv1.6	potassium voltage-gated channel, shaker-related subfamily, member 6	NM_002235,X17622	12	Hs00266903_s1	4	K ⁺ channel
KCNA7	Kv1.7	potassium voltage-gated channel, shaker-related subfamily, member 7	NM_031886,AF3158	19	Hs00361015_m1	1	K ⁺ channel
KCNAB1	Kvβ1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	NM_172159,NM_172130	3	Hs00185764_m1	4	K ⁺ channel
KCNAB2	Kvβ2	potassium voltage-gated channel, shaker-related subfamily, beta member 2	NM_172130,NM_004732	1	Hs00186308_m1	4	K ⁺ channel
KCNAB3	Kvβ3	potassium voltage-gated channel, shaker-related subfamily, beta member 3	NM_004732,AF0164	17	Hs00190986_m1	6	K ⁺ channel
KCNB1	Kv2.1	potassium voltage-gated channel, Shab-related subfamily, member 1	NM_004975,L02840	20	Hs00270657_m1	1	K ⁺ channel
KCNB2	Kv2.2	potassium voltage-gated channel, Shab-related subfamily, member 2	NM_004770,NM_004976	8	Hs00191116_m1	1	K ⁺ channel
KCNC1	Kv3.1	potassium voltage-gated channel, Shaw-related subfamily, member 1	NM_004976,NM_004977	11	Hs00428197_m1	1	K ⁺ channel
KCNC2	Kv3.2	potassium voltage-gated channel, Shaw-related subfamily, member 2	NM_139137,NM_139138	12	Hs00373568_m1	3	K ⁺ channel
KCNC3	Kv3.3	potassium voltage-gated channel, Shaw-related subfamily, member 3	NM_004977,AF0559	19	Hs00192108_m1	7	K ⁺ channel
KCNC4	Kv3.4	potassium voltage-gated channel, Shaw-related subfamily, member 4	NM_153763,NM_004979	1	Hs00428198_m1	1	K ⁺ channel
KCND1	Kv4.1	potassium voltage-gated channel, Shal-related subfamily, member 1	NM_004979,AJ0058	X	Hs00192113_m1	5	K ⁺ channel
KCND2	Kv4.2	potassium voltage-gated channel, Shal-related subfamily, member 2	NM_012281,AB0289	7	Hs00273378_m1	4	K ⁺ channel
KCND3	Kv4.3	potassium voltage-gated channel, Shal-related subfamily, member 3	NM_004980,NM_004981	1	Hs00270661_m1	5	K ⁺ channel
KCNE1	MinK	potassium voltage-gated channel, Isk-related family, member 1	NM_000219,L28168	21	Hs00264799_s1	1	K ⁺ channel
KCNE1L	MIRP4	KCNE1-like	NM_012282,AJ0127	X	Hs00273381_s1	2	K ⁺ channel
KCNE2	MIRP1	potassium voltage-gated channel, Isk-related family, member 2	NM_172201,AF0710	21	Hs00270822_s1	1	K ⁺ channel
KCNE3	MIRP2	potassium voltage-gated channel, Isk-related family, member 3	NM_005472,BC0322	11	Hs00538801_m1	1	K ⁺ channel
KCNE4	MIRP3	potassium voltage-gated channel, Isk-related family, member 4	NM_080671,BC0144	2	Hs00758199_g1	1	K ⁺ channel
KCNH2	Herg	potassium voltage-gated channel, subfamily H (eag-related), member 2	NM_172056,NM_001731	7	Hs00165120_m1	3	K ⁺ channel
KCNIP2	KChIP2	Kv channel interacting protein 2	NM_173191,NM_173192	10	Hs00601709_g1	8	K ⁺ channel
KCNJ1	Kir1.1	potassium inwardly-rectifying channel, subfamily J, member 1	NM_000220,NM_000221	11	Hs00165012_m1	1	K ⁺ channel
KCNJ11	Kir6.2	potassium inwardly-rectifying channel, subfamily J, member 11	NM_000525,BC0644	11	Hs00265026_s1	6	K ⁺ channel
KCNJ12	Kir2.2	potassium inwardly-rectifying channel, subfamily J, member 12	NM_021012,L36069	17	Hs00266926_s1	N/A	K ⁺ channel
KCNJ2	Kir2.1	potassium inwardly-rectifying channel, subfamily J, member 2	NM_000891,U12507	17	Hs00265315_m1	1	K ⁺ channel
KCNJ3	Kir3.1	potassium inwardly-rectifying channel, subfamily J, member 3	NM_002239,U50964	2	Hs00158421_m1	1	K ⁺ channel
KCNJ4	Kir2.3	potassium inwardly-rectifying channel, subfamily J, member 4	NM_152868,NM_000089	22	Hs00705379_s1	18	K ⁺ channel
KCNJ5	Kir3.4	potassium inwardly-rectifying channel, subfamily J, member 5	NM_000890,D50134	11	Hs00168476_m1	2	K ⁺ channel
KCNJ8	Kir6.1	potassium inwardly-rectifying channel, subfamily J, member 8	NM_004982,D50312	12	Hs00270663_m1	1	K ⁺ channel
KCNK1	TWIK1	potassium channel, subfamily K, member 1	NM_002245,U33632	1	Hs00158428_m1	2	K ⁺ channel
KCNK3	TASK1	potassium channel, subfamily K, member 3	NM_002246,AF0068	2	Hs00605529_m1	1	K ⁺ channel
KCNK5	TASK2	potassium channel, subfamily K, member 5	NM_003740,AF0848	6	Hs00186652_m1	1	K ⁺ channel
KCNQ1	KvLQT1	potassium voltage-gated channel, KQT-like subfamily, member 1	NM_181797,NM_181798	11	Hs00165003_m1	15	K ⁺ channel
MYH7	β-MHC	myosin, heavy polypeptide 7, cardiac muscle, beta	NM_000257,M58018	14	Hs00165276_m1	26	Cytoskeletal protein

NPPA	ANP	natriuretic peptide precursor A	NM_006172,M30262	1	Hs00383230_g1	1	Signaling molecule
NPPB	BNP	natriuretic peptide precursor B	NM_002521,M25296	1	Hs00173590_m1	2	Signaling molecule
PIAS3	KChAP	protein inhibitor of activated STAT, 3	NM_006099,AB0218	1	Hs00180666_m1	7	K ⁺ channel
PLN	PLB	phospholamban	NM_002667,M63603	6	Hs00160179_m1	1	Ca ⁺⁺ regulator
PPP3CA	CAM-PRP	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	NM_000944,L14778	4	Hs00174223_m1	10	Ca ⁺⁺ regulator
RYR2	RYR2	ryanodine receptor 2 (cardiac)	NM_001035,X98330	1	Hs00181461_m1	10	Ca ⁺⁺ regulator
SCN1A	Nav1.1	sodium channel, voltage-gated, type I, alpha	NM_006920,AF2259	2	Hs00374696_m1	17	Na ⁺ channel
SCN1B	Navβ1	sodium channel, voltage-gated, type I, beta	NM_001037,L10338	19	Hs00168897_m1	2	Na ⁺ channel
SCN2B	Navβ2	sodium channel, voltage-gated, type II, beta	NM_004588,AF0077	11	Hs00394952_m1	3	Na ⁺ channel
SCN3A	Nav1.3	sodium channel, voltage-gated, type III, alpha	NM_006922,AF0356	2	Hs00366902_m1	12	Na ⁺ channel
SCN3B	Navβ3	sodium channel, voltage-gated, type III, beta	NM_018400,AB0329	11	Hs00393218_m1	4	Na ⁺ channel
SCN4A	Nav1.4	sodium channel, voltage-gated, type IV, alpha	NM_000334,M81758	17	Hs00165686_m1	5	Na ⁺ channel
SCN5A	Nav1.5	sodium channel, voltage-gated, type V, alpha (long QT syndrome 3)	NM_198056,NM_00	3	Hs00165693_m1	11	Na ⁺ channel
SCN7A	Nav2.1	sodium channel, voltage-gated, type VII, alpha	NM_002976,M91556	2	Hs00161546_m1	10	Na ⁺ channel
SCN9A	Nav1.7	sodium channel, voltage-gated, type IX, alpha	NM_002977,X82835	2	Hs00161567_m1	11	Na ⁺ channel
SLC8A1	NCX1	solute carrier family 8 (sodium/calcium exchanger), member 1	NM_021097,M91368	2	Hs00253432_m1	2	Ca ⁺⁺ regulator

Assay-on-demand

CD4	CD4 antigen	CD4 antigen (p55)	NM_000616,M12807	12	Hs00181217_m1	2	marker of inflammation
CNN1	Calponin 1	calponin 1, basic, smooth muscle	NM_001299,D17408	19	Hs00154543_m1	1	marker of vascular vessels
COL6A1	Procollagen 6, α1	collagen, type VI, alpha 1	NM_001848,M27447	21	Hs00242448_m1	20	marker of fibroblasts
IL6	Il6	interleukin 6 (interferon, beta 2)	NM_000600,X04403	7	Hs00174131_m1	3	marker of inflammation
UCHL1	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	NM_004181,X04741	4	Hs00188233_m1	8	marker of neuronal tissue