

For each compartment, mean +/- SEM of the relative expression ($2^{-\Delta C_t}$) obtained of each gene versus HPRT (x100)

Ca ⁺⁺ channels	LA (n=7)		LV (n=7)		Lepi (n=7)		Lendo (n=7)		RA (n=5)		RV (n=5)		PF (n=8)		Repi (n=8)		Rendo (n=8)	
	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM
Cav1.2	578.2	112.0	626.4	71.1	812.2	77.2	538.4	61.4	646.9	77.6	748.6	115.9	454.7	60.3	692.2	61.1	454.7	41.3
Cav1.3	19.6	7.5	1.2	0.3	1.0	0.3	1.0	0.4	7.7	1.8	0.3	0.1	1.2	0.2	1.6	0.6	0.9	0.2
Cav3.1	206.8	49.0	2.6	0.5	2.0	0.8	3.1	1.3	20.6	3.1	1.1	0.3	4.3	1.1	4.5	0.9	3.1	0.5
Cav3.2	10.2	0.9	7.6	0.9	9.1	1.0	9.0	1.1	7.4	0.5	11.1	1.6	8.9	1.5	9.5	0.9	10.2	1.1
Cavα2δ1	215.9	23.5	399.5	89.6	234.7	43.3	355.9	75.1	234.4	21.2	290.5	24.2	283.2	26.3	201.8	14.0	231.8	20.2
Cavα2δ2	68.6	31.5	9.8	1.9	9.9	2.5	8.8	1.4	188.4	39.7	13.6	2.2	30.7	4.2	12.3	2.0	13.1	1.6
Cavβ2	232.2	41.8	161.9	45.2	186.1	24.7	137.4	20.4	88.3	18.0	89.4	13.4	99.3	12.5	280.7	37.8	244.6	39.7
Connexins																		
Cx43	1105.1	167.3	1317.9	182.7	1195.2	177.9	1387.8	172.7	437.7	60.3	897.5	124.7	429.6	53.4	1588.3	258.7	1745.1	250.0
Cx40	589.8	191.3	158.2	45.7	83.6	11.4	146.4	18.0	607.6	186.4	176.5	38.2	388.6	71.4	46.3	7.8	95.3	20.7
Cx45	214.9	36.8	226.3	41.0	163.3	27.3	148.8	32.3	239.5	21.6	225.7	25.8	124.9	8.8	107.7	12.3	98.3	13.6
Na⁺ channels																		
Navβ1	429.7	54.2	133.6	28.5	152.2	29.2	224.3	44.2	622.2	108.0	315.9	63.0	396.6	56.1	163.0	15.0	200.0	24.0
Navβ2	27.3	5.0	36.7	9.8	29.8	6.3	27.7	5.2	54.2	6.9	91.1	20.0	70.0	18.6	33.1	4.6	33.9	6.5
Navβ3	8.5	0.9	10.6	1.6	9.3	1.4	11.4	2.3	6.2	0.9	13.3	1.3	12.3	2.2	4.9	0.5	5.1	0.9
Nav1.1	1.9	0.5	1.3	0.3	1.5	0.8	1.5	0.5	1.5	0.5	2.7	0.7	1.5	0.5	2.4	0.6	3.0	0.8
Nav1.3	7.1	2.3	7.8	2.4	7.6	2.6	5.4	1.7	3.0	0.7	7.1	1.8	6.7	1.2	8.5	2.1	9.1	1.6
Nav1.5	814.2	70.1	529.9	58.7	442.4	77.8	562.4	71.0	588.1	52.5	730.7	98.7	500.6	51.2	351.5	49.7	672.4	68.0
Nav1.7	14.6	1.8	7.2	1.2	9.6	1.3	13.0	1.1	0.4	0.1	1.4	0.1	6.9	0.7	11.0	1.2	11.2	1.5
Nav2.1	375.9	39.6	402.2	134.8	305.5	48.1	360.2	50.4	200.7	31.7	285.8	38.3	236.9	45.5	506.9	49.0	549.6	57.3
K⁺ channel α-subunits																		
Kv1.2	7.2	2.1	3.7	1.1	3.3	0.9	2.8	1.0	2.7	0.4	4.1	1.3	4.1	1.0	5.4	1.3	3.1	0.5
Kv1.3	16.8	3.3	4.2	1.1	4.5	0.5	2.6	0.4	4.1	1.0	1.6	0.3	3.6	0.4	3.9	0.4	2.4	0.3
Kv1.4	4.8	1.0	21.0	2.5	13.4	3.5	27.3	4.3	7.0	1.8	34.0	6.5	35.0	3.8	7.3	1.5	18.6	2.9
Kv1.5	689.6	163.3	32.0	18.5	16.7	3.8	30.3	7.3	652.2	112.2	26.1	5.3	37.2	10.4	20.3	4.5	25.3	2.6
Kv1.6	20.8	3.1	7.9	2.9	6.3	1.3	6.0	1.5	9.4	0.7	3.5	0.8	8.1	1.0	7.0	0.7	4.4	0.8
Kv1.7	33.9	10.6	6.9	2.4	11.4	3.3	6.8	2.3	19.3	4.9	13.9	5.7	15.0	1.1	9.0	2.7	6.7	1.9
Kv2.1	10.8	6.5	14.0	3.7	21.1	11.6	17.4	8.1	5.8	3.1	8.9	8.3	12.8	1.4	18.2	10.2	11.7	5.4
Kv3.3	4.8	1.1	3.4	0.6	2.9	0.5	3.0	0.5	2.9	0.4	1.7	0.5	0.8	0.2	2.5	0.3	2.9	0.4
Kv3.4	24.1	1.3	22.3	4.5	27.1	2.6	24.1	3.7	42.7	2.3	30.0	4.8	26.5	2.4	22.4	1.7	22.7	2.3
Kv4.1	5.4	1.0	2.7	0.8	2.2	0.4	2.9	0.4	7.0	0.9	4.0	1.1	9.5	1.7	3.1	0.5	2.4	0.5
Kv4.2	13.6	3.9	5.2	1.9	6.5	0.5	5.0	1.8	2.0	0.7	1.5	0.7	3.7	1.0	9.5	2.0	3.8	0.6
Kv4.3	98.5	10.6	60.3	6.9	61.1	9.2	71.1	6.9	148.1	20.3	91.0	14.8	181.0	20.4	39.9	5.4	40.6	5.0
Herg	303.5	24.3	232.8	38.5	246.1	41.9	232.1	38.5	379.0	40.3	400.3	36.4	403.3	55.6	156.6	14.8	189.9	16.0
KvLQT1	166.4	23.7	113.1	14.3	178.3	19.7	135.1	12.2	80.0	9.8	116.2	9.1	101.7	5.4	225.4	20.5	206.1	26.5

K ⁺ channel β -subunits	LA (n=7)		LV (n=7)		Lepi (n=7)		Lendo (n=7)		RA (n=5)		RV (n=5)		PF (n=8)		Repi (n=8)		Rendo (n=8)	
	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM
SUR1	6.5	0.7	4.9	0.7	7.5	1.5	5.8	1.7	2.1	0.3	1.7	0.4	1.4	0.3	6.5	1.1	4.6	0.8
SUR2	498.6	42.7	631.4	109.7	690.5	88.9	636.0	81.7	55.3	5.9	99.6	20.2	134.0	11.1	877.5	64.9	754.5	47.3
Kv β 1	17.0	3.6	17.0	5.5	13.7	3.3	13.3	3.2	14.9	3.3	25.3	3.3	12.7	1.8	17.7	3.5	14.8	2.0
Kv β 2	120.8	24.4	236.9	71.7	150.5	21.9	162.7	21.9	22.8	3.6	46.7	4.6	82.9	10.0	136.7	13.8	174.2	13.2
Kv β 3	2.2	0.5	1.9	0.7	1.7	0.4	1.8	0.3	0.2	0.0	0.2	0.0	2.4	0.3	1.5	0.4	1.0	0.2
MinK	20.4	3.7	18.0	4.2	12.5	2.6	12.6	2.5	28.2	4.1	21.5	1.7	12.0	0.4	16.3	1.7	14.1	1.4
MIRP1	2.4	0.4	1.1	0.3	1.4	0.4	1.9	0.5	2.3	0.5	1.4	0.4	3.0	0.6	2.2	0.8	1.9	0.2
MIRP2	17.2	1.8	15.4	4.5	9.7	1.2	12.3	1.4	23.8	2.1	23.9	1.7	35.0	7.1	11.1	2.0	11.9	3.0
MIRP3	30.9	12.4	12.1	2.6	11.5	2.8	12.8	2.5	57.5	12.6	25.6	4.5	34.5	4.6	12.3	1.8	12.6	2.2
MIRP4	2.1	0.6	1.1	0.3	1.0	0.2	1.3	0.3	3.3	0.5	2.4	0.4	0.8	0.2	2.1	0.5	1.6	0.2
KChIP2	639.1	60.4	268.7	87.0	467.6	111.2	14.6	4.6	611.3	82.8	703.7	195.4	13.5	4.0	448.3	68.3	151.0	25.9
KChAP	55.6	5.3	50.2	5.5	46.7	3.8	47.7	4.8	44.3	3.7	40.1	1.4	66.8	6.5	50.0	3.2	46.6	3.2

Kir channels

Kir2.1	45.3	9.9	144.9	30.6	132.8	20.4	131.7	19.3	49.8	7.3	200.6	25.8	72.6	10.2	125.9	18.6	165.5	22.9
Kir2.2	304.1	37.0	177.7	29.7	187.9	38.6	163.2	43.2	116.5	25.3	125.0	21.6	46.8	6.6	83.0	5.4	61.4	7.8
Kir2.3	88.0	11.2	163.6	29.8	109.9	25.9	132.7	21.8	213.1	41.2	106.1	25.8	61.6	10.8	51.7	12.2	75.8	7.0
Kir3.1	303.2	31.1	7.1	3.0	3.9	2.2	16.8	6.5	158.4	23.8	3.9	1.3	48.4	9.2	3.6	1.0	14.8	4.3
Kir3.4	63.1	6.1	38.4	22.8	70.1	27.3	58.9	34.3	39.2	6.8	20.4	33.4	24.6	5.9	41.2	13.5	46.1	27.5
Kir6.1	167.5	19.0	298.5	42.9	527.0	66.2	384.6	31.3	49.7	7.6	158.3	15.7	63.6	9.8	633.3	96.3	557.6	54.3
Kir6.2	85.5	10.1	65.9	12.6	72.0	13.5	57.6	9.4	125.1	18.8	172.1	40.2	55.9	4.5	72.0	13.7	68.6	12.9
TWIK1	688.5	75.8	122.1	19.6	133.1	24.8	148.6	38.3	745.2	114.7	216.2	30.9	350.3	42.8	127.4	15.8	116.7	17.6
TASK1	109.8	14.5	9.3	2.4	8.9	2.0	12.7	3.2	129.4	33.6	8.9	2.3	14.1	2.1	6.7	2.2	7.1	2.4
TASK2	5.9	0.6	2.8	0.6	2.2	0.4	3.8	0.8	7.0	1.6	5.3	0.6	9.8	1.8	3.4	0.9	3.1	0.6

HCN channels

HCN1	270.2	51.0	5.4	2.5	2.9	0.7	6.2	2.8	70.3	9.6	0.4	0.1	8.2	3.1	0.8	0.3	0.6	0.2
HCN2	61.2	13.9	90.7	24.3	44.0	9.5	61.1	14.6	158.7	41.2	24.7	6.0	11.4	2.3	12.5	4.5	22.6	4.0
HCN3	3.8	0.4	3.2	0.6	3.8	0.7	3.1	0.6	4.2	0.7	5.7	1.6	8.9	1.2	3.7	0.5	3.5	0.5
HCN4	158.5	26.2	85.5	12.9	78.7	19.9	87.0	10.7	214.4	31.9	75.9	17.9	98.2	11.1	71.2	10.8	85.3	12.3

Cl⁻ channels

CIC2	7.8	1.4	7.4	0.8	15.2	3.7	8.8	1.4	10.7	1.2	13.2	1.1	18.6	2.8	9.6	1.1	9.7	1.3
CIC3	352.3	53.8	265.1	22.6	319.8	59.6	264.6	28.5	130.0	10.7	152.9	21.4	95.3	4.0	592.8	53.7	483.7	42.1
CIC6	242.4	10.1	192.9	14.7	220.3	14.3	194.7	12.0	132.2	11.2	146.2	12.4	175.2	18.4	204.2	15.3	177.6	12.6
CIC7	112.8	12.2	111.5	15.5	159.6	13.9	155.0	9.3	159.9	19.2	183.0	33.9	164.4	19.9	122.7	14.6	128.6	21.2

Ca ²⁺ handling	LA (n=7)		LV (n=7)		Lepi (n=7)		Lendo (n=7)		RA (n=5)		RV (n=5)		PF (n=8)		Repi (n=8)		Rendo (n=8)	
	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM	mean	SEM
Na/K ATPase α1	658.7	70.9	739.8	125.2	641.8	99.4	793.1	157.5	1009.9	231.9	1272.1	201.0	1502.0	264.9	443.7	41.5	500.0	90.3
Na/K ATPase α3	2261.6	147.7	1749.2	339.3	1807.6	331.8	1613.8	321.0	4100.0	167.4	5446.4	526.2	1345.1	194.9	2621.8	338.4	2713.6	347.1
Na/K ATPase β1	1546.4	110.2	1944.0	269.6	1743.9	131.6	2025.7	191.0	1518.6	97.1	2218.9	187.5	1630.9	137.6	2189.0	116.4	2627.9	214.6
SERCA2	13393.9	613.2	7863.9	1575.3	9637.8	1323.4	5785.7	688.3	7800.6	746.2	8695.5	839.7	2687.4	193.8	11434.6	620.8	9108.3	603.8
SERCA3	41.1	3.8	38.0	6.7	28.9	4.1	34.6	3.7	79.2	6.5	61.4	4.4	81.4	13.7	24.5	2.0	24.8	1.9
PMCA1	86.4	5.5	89.8	15.3	86.2	12.2	82.4	7.0	48.7	6.2	54.7	4.3	55.8	5.7	71.5	6.0	65.6	4.5
PMCA4	716.2	55.6	1235.0	276.3	1047.1	162.4	1129.1	174.8	719.5	76.2	873.7	127.5	933.7	146.4	832.2	102.2	768.3	106.2
NCX1	1050.7	54.0	1050.0	226.2	1309.0	100.6	1031.7	163.8	1400.6	54.7	2207.9	277.9	1188.9	139.2	1123.3	76.9	1066.8	57.7

pumps / exchangers

CALM1	1477.5	132.5	1258.6	106.3	1355.3	113.0	1360.0	210.4	122.5	11.4	182.1	7.5	477.7	37.7	1260.3	93.7	1253.2	151.8
CALM3	2489.1	232.9	2363.2	143.6	2841.1	265.3	2351.6	212.5	1017.4	56.2	1348.6	118.8	1299.1	78.5	3559.4	186.3	3144.9	193.1
CASQ1	116.5	34.4	378.2	83.2	215.3	57.0	232.8	41.5	96.8	26.3	129.5	29.1	157.0	35.4	211.6	71.3	169.7	31.7
CASQ2	3009.3	152.8	2921.1	292.6	2822.0	294.5	3198.0	313.9	3524.2	286.4	4147.2	415.6	1916.0	235.7	3047.3	346.9	3518.4	256.5
InsP3R1	142.7	16.0	126.3	20.9	90.5	14.1	137.8	19.1	116.5	12.0	152.9	15.8	246.1	26.0	78.2	10.0	85.9	9.4
InsP3R3	53.0	9.0	65.6	13.6	72.6	6.7	67.1	11.9	69.5	7.9	105.8	18.5	131.2	15.7	57.0	8.9	45.9	7.3
PLB	11752.3	1864.0	16652.8	3082.9	14668.8	2476.3	14031.5	1744.6	4703.3	871.1	9519.4	1008.3	7622.1	1342.8	25046.8	4077.6	22730.4	3008.3
CAM-PRP	129.2	19.3	118.2	14.0	144.4	21.1	115.6	17.0	63.1	6.3	86.9	9.7	71.9	9.2	210.7	26.1	148.2	11.0
RYR2	6819.7	325.6	9245.7	330.8	10305.3	830.3	8998.2	665.7	12940.0	1352.1	25054.3	2570.5	8612.3	396.6	11324.2	1125.7	9216.4	864.9