

**Table S1.** Selected genes for mRNA quantification (Custom TaqMan® Plates). STP – signal transduction pathway

STP	Gene	Name	NCBI-RefSeq
<b>Angiogenesis and cell survival</b>	<i>Akt1</i>	V-akt murine thymoma viral oncogene homolog 1	NM_009652.4
	<i>Vegfa</i>	Vascular endothelial growth factor A	NM_001287056.1
<b>Cell apoptosis</b>	<i>Bax</i>	BCL2-associated X protein	NM_007527.4
	<i>Fas</i>	Fas (TNF receptor superfamily member 6)	NM_007987.2
	<i>Mapk1</i>	Mitogen-activated protein kinase 1	NM_011949.3
	<i>Mapk14</i>	Mitogen-activated protein kinase 14	NM_011951.3
	<i>Trp53</i>	Transformation related protein 53	NM_011640.3
<b>Calcium Kinetics</b>	<i>Atp2a2</i>	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	NM_001110140.3
	<i>Casq2</i>	Calsequestrin 2	NM_001355663.1
	<i>Pln</i>	Phospholamban	NM_001141927.1
	<i>RyR-2</i>	Ryanodine receptor 2, cardiac	NM_023868.2
	<i>Slc8a1</i>	Solute carrier family 8 (sodium/calcium exchanger), member 1	NM_011406.3
<b>Oxidative stress</b>	<i>Cat</i>	Catalase	NM_009804.2
	<i>Gpx4</i>	Glutathione peroxidase 4	NM_008162.4
	<i>Hspa1a/b</i>	Heat shock protein 1A	NM_010479.2
		Heat shock protein 1B	NM_010478.2
	<i>Sod1</i>	Superoxide dismutase 1, soluble	NM_011434.2
<b>Cardiac hypertrophy</b>	<i>Ace</i>	Angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	NM_207624.6
	<i>Ace2</i>	Angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	NM_001130513.1
	<i>Agtr1a</i>	Angiotensin II receptor, type 1a	NM_177322.3
	<i>Cabin1</i>	Calcineurin binding protein 1	NM_172549.3
	<i>Chp2</i>	Calcineurin-like EF hand protein 2	NM_027363.1
	<i>Edn1</i>	Endothelin 1	NM_010104.4
	<i>Igf1</i>	Insulin-like growth factor 1	NM_010512.5
	<i>Map3k2</i>	Mitogen-activated protein kinase kinase kinase 2	NM_011946.3
	<i>Myh6</i>	Myosin, heavy polypeptide 6, cardiac muscle, alpha	NM_001164171.1
	<i>Myh7</i>	Myosin, heavy polypeptide 7, cardiac muscle, beta	NM_080728.3
	<i>Nfatc3</i>	Nucl. factor of activated T cells, cytoplasmic, calcineurin dependent 3	NM_010901.3
	<i>Nppa</i>	Natriuretic peptide type A	NM_008725.3
	<i>Nppb</i>	Natriuretic peptide type B	NM_008726.6
	<i>Prkca</i>	Protein kinase C, alpha	NM_011101.3
	<i>Prkcb</i>	Protein kinase C, beta	NM_008855.2
	<i>Prkcg</i>	Protein kinase C, gamma	NM_011102.4
<b>Inflammation</b>	<i>IL-6</i>	Interleukin 6	NM_031168.2
	<i>Tnfrsf1a</i>	Tumor necrosis factor receptor superfamily, member 1a	NM_011609.4
	<i>Tnf</i>	Tumor necrosis factor	NM_013693.3
<b>Extracellular Matrix</b>	<i>Col1a1</i>	Collagen, type I, alpha 1	NM_007742.4
	<i>Col3a1</i>	Collagen, type III, alpha 1	NM_009930.2
	<i>Mmp9</i>	Matrix metalloproteinase 9	NM_013599.5
	<i>Tgfb1</i>	Transforming growth factor, beta 1	NM_011577.2
	<i>Tnc</i>	Tenascin C	NM_001369211.1
<b>Cellular metabolism</b>	<i>Gapdh</i>	Glyceraldehyde-3-phosphate dehydrogenase	NM_001289726.2
	<i>Hk1</i>	Hexokinase 1	NM_001146100.1
	<i>Ndufa3</i>	NADH:ubiquinone oxidoreductase subunit A3	NM_025348.3
	<i>Pfkfb</i>	Phosphofructokinase, muscle	NM_001163487.1
	<i>Slc2a1</i>	Solute carrier family 2 (facilitated glucose transporter), member 1	NM_011400.3
	<i>Taz</i>	Tafazzin, phospholipid-lysophospholipid transacylase	NM_001173547.2
	<i>Ucp-2</i>	Uncoupling protein 2 (mitochondrial, proton carrier)	NM_011671.5