



ISO

| Inhibited Component | Measured Component | Experiment | Not-tuned Model | Tuned Model |
|---------------------|--------------------|------------|-----------------|-------------|
| aAR | aMHC | | LH | LH |
| | ANP | | | |
| Akt | bMHC | | | |
| | ANP | ML | | |
| AT1R | CREB | | | LL |
| | ERK12 | ML | | LL |
| | JNK | LL | | LL |
| | MEK12 | ML | | LL |
| p38 | p38 | LL | | LL |
| | Raf1 | ML | | LL |
| | ANP | | | |
| | BNP | | | |
| Calcium | ERK12 | | | |
| | sACT | | | |
| | Akt | | | |
| | aMHC | | | |
| CaMK | ANP | ML | | |
| | bMHC | | | |
| | BNP | | | |
| | Calcium | | | |
| CaMK | Calcium | LL | | |
| | CArea | | | |
| | ERK12 | | | |
| | sACT | | | |
| cAMP | ERK12 | | | |
| | ERK12 | ML | | LL |
| CaN | NFAT | | | |
| | CArea | | | |
| | ERK12 | | | |
| | Raf1 | | | |
| CaN | ANP | LL | | |
| | Calcium | LL | | |
| | CArea | LL | | |
| | ERK12 | ML | | |

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|---------------------|--------------------|------------|-----------------|-------------|
| GBG | ERK12 | | | |
| | HDAC | CArea | | |
| MEK12 | CREB | | | |
| | AC | cAMP | | |
| NFkB | CArea | | | |
| | Gaq11 | ERK12 | | LL |
| CaM | ERK12 | | | |
| | p38 | ANP | | |
| Akt | Akt | | | |
| | Akt | HL | HL | HL |
| | Akt | ML | HL | HL |
| | ANP | | | |
| PI3K | ANP | HL | | |
| | ERK12 | | | |
| | aMHC | | | |
| | aMHC | | HL | LH |
| bMHC | ANP | | | |
| | BNP | | | |
| | ERK12 | | | |
| | ERK12 | ML | | LL |
| PKA | SERCA | | | |
| | ERK12 | | | |
| | CArea | | | |
| | NFAT | LL | | |
| PKC | ERK12 | | | |
| | ERK12 | ML | | LL |
| | ERK12 | ML | HL | HL |
| | NFAT | | | |
| PKD | ANP | | | |
| | ANP | ML | | |
| | CArea | | | |
| | Calcium | | | |



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|--------------------|------------|-----------------|-------------|
| AC | | | |
| AC | MH | HH | LH |
| AC | HH | HH | HH |
| AC | HH | HH | HH |
| AC | HH | HH | HH |
| AC | HH | HH | HH |
| AC | HH | HH | HH |
| AC | HH | HH | HH |
| Akt | | | |
| Akt | MH | HH | MH |
| Akt | MH | HH | MH |
| ATF2 | LH | HH | LH |
| Calcium | | | |
| Calcium | MH | HH | MH |
| Calcium | MH | MH | LH |
| Calcium | MH | HH | MH |
| Calcium | MH | HH | MH |
| CaM | | | |
| CaMK | | | |
| CaMK | LH | HH | HH |
| cAMP | | | |
| cAMP | LH | HH | LH |
| cAMP | HH | HH | HH |
| cAMP | HH | HH | HH |
| cAMP | HH | HH | HH |
| CaN | | | |
| CaN | LH | HH | HH |
| CaN | LH | HH | HH |
| cFos | | | |
| cJun | | HH | LH |
| CREB | | | |
| CREB | MH | HH | LH |
| CREB | MH | HH | LH |
| CREB | MH | HH | MH |
| CREB | MH | HH | MH |
| ELK1 | | | |
| ELK1 | LH | HH | LH |
| Ras | | | |
| Ras | MH | HH | MH |

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| Measured Component | Experiment | Not-tuned Model | Tuned Model |
|--------------------|------------|-----------------|-------------|
| ERK12 | | | |
| ERK12 | MH | HH | MH |
| ERK12 | MH | HH | MH |
| ERK12 | LH | HH | MH |
| GATA4 | | | |
| GATA4 | LH | HH | MH |
| GBG | | | |
| GSK3B | | | |
| GSK3B | LL | HL | LL |
| HDAC | | | |
| JAK | | | |
| JAK | LH | | |
| JNK | | | |
| JNK | MH | HH | MH |
| MEK12 | | | |
| MEK12 | MH | HH | MH |
| NFAT | | | |
| NFAT | LH | HH | LH |
| NFAT | LH | HH | LH |
| p38 | | | |
| p38 | MH | HH | MH |
| p38 | LH | HH | MH |
| p70s6k | | | |
| p70s6k | MH | HH | MH |
| PI3K | | | |
| PI3K | MH | HH | MH |
| PKA | | | |
| PKA | HH | HH | HH |
| PKC | | | |
| PKC | LH | LH | LH |
| PKD | | | |
| PKD | LH | LH | LH |
| Rac1 | | | |
| Raf1 | | | |
| Raf1 | MH | HL | MH |
| STAT | | | |
| STAT | LH | | |



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| Measured Component | Experiment | Not-tuned Model | Tuned Model |
|--------------------|------------|-----------------|-------------|
| aMHC | | | |
| aMHC | LL | | LL |
| aMHC | LL | HL | LL |
| aMHC | LL | HL | ML |
| ANP | | | |
| ANP | MH | HH | LH |
| ANP | LH | HH | LH |
| ANP | LH | HH | LH |
| ANP | MH | HH | LH |
| bMHC | | | |
| bMHC | LH | HH | LH |
| bMHC | LH | HH | LH |
| bMHC | LH | HH | LH |
| bMHC | MH | HH | LH |
| BNP | | | |
| BNP | MH | HH | LH |
| BNP | ML | | |
| CArea | | | |
| CArea | LH | HH | LH |
| CArea | LH | HH | LH |
| CArea | LH | HH | LH |
| CArea | LH | HH | LH |
| sACT | | | |
| sACT | LH | HH | LH |
| SERCA | | | |
| SERCA | LL | HL | LL |

ISO

Overexpressed Component

PE

PDK1

Akt

GSK3B

| Measured Component | Experiment | Not-tuned Model | Tuned Model |
|--------------------|------------|-----------------|-------------|
| PKD | MH | HH | H |
| ANP | MH | | |
| ANP | LH | | |
| ANP | ML | | |

