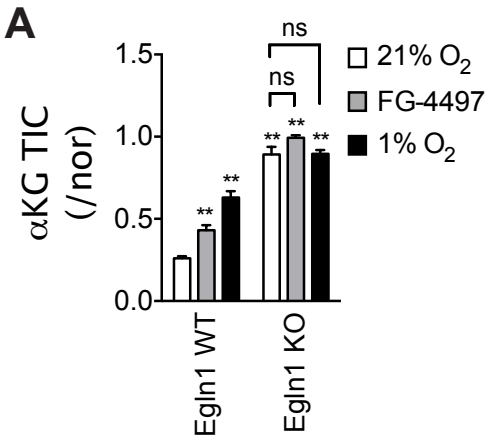
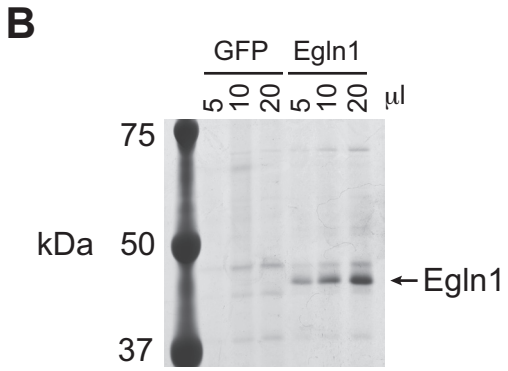
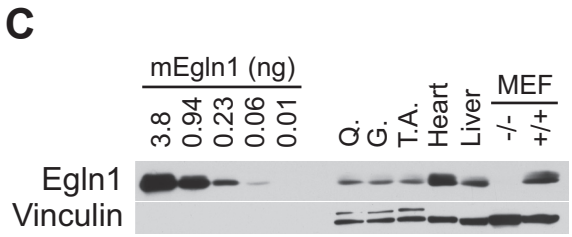
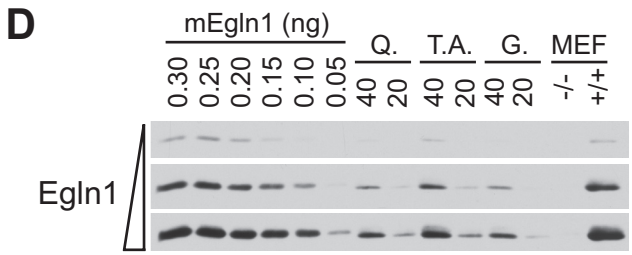






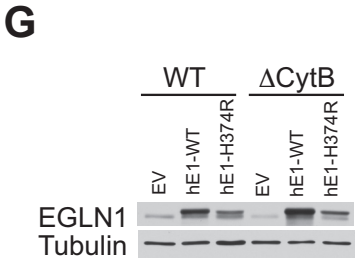


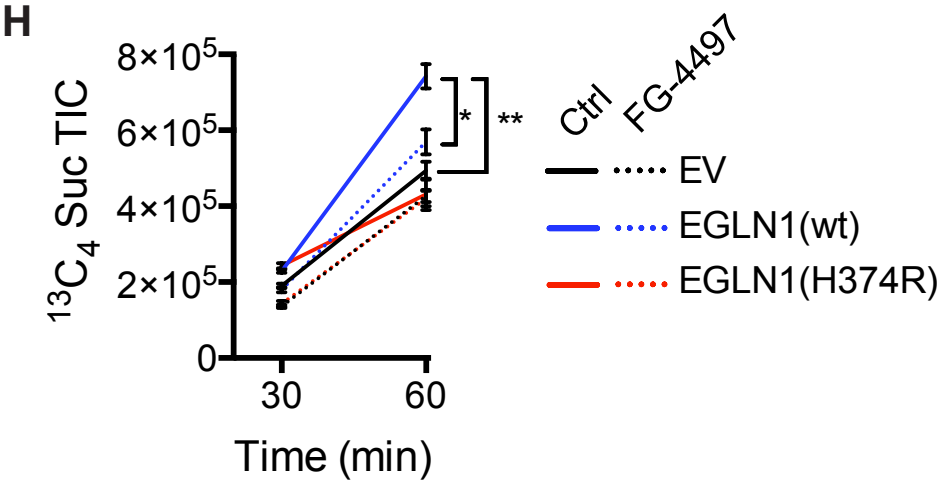
E

$$1\text{ g wet muscle} \times \frac{75\text{ mg soluble protein}^{a}}{1\text{ g wet muscle}} \times \frac{10^{3}\mu\text{g soluble protein}}{1\text{ mg soluble protein}} \times \frac{0.15\text{ ng EglN1}^{b}}{40\ \mu\text{g soluble protein}} \times \frac{1\text{ nmol EglN1}^{c}}{46{,}000\text{ ng EglN1}} \times \frac{10^{3}\text{ pmol}}{1\text{ nmol}} = 6.11\text{ pmol}$$

F

$$\frac{6.11\text{ pmol EglN1}^{a}}{1\text{ g wet muscle}} \times \frac{45\text{ pmol }\alpha\text{KG decarboxylation}^{b}}{\text{pmol EglN1}\cdot\text{min}} = 274\ \frac{\text{pmol }\alpha\text{KG decarboxylation}}{\text{min}}$$





I

$$1\text{ g tissue} \times \frac{10^{9}\text{ cells}^{a}}{\text{g tissue}} \times \frac{4400\text{ ions}^{b}}{0.5\text{x}10^{6}\text{ cells}\cdot 10\text{ min}} \times \frac{1\text{ pmol}^{c}}{4900\text{ ions}} = 180\ \frac{\text{pmol }\alpha\text{KG decarboxylation}}{\text{min}}$$