

1 **Table S5.** The list of proteins exclusively identified in the Low-carnosine group
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Protein ID	Protein name	Gene name
A0A1D5P470	Glutathione S-transferase	<i>GSTT1</i>
A0A1D5P893	Poly(rc)-binding protein 2 isoform	<i>PCBP2</i>
A0A1D5PDV6	Ribosomal protein S19	<i>RPS19</i>
A0A1D5PFA5	Myosin, light chain 10, regulatory	<i>MYL10</i>
P15989	Collagen alpha-3(VI) chain	<i>COL6A3</i>
A0A1D5PMT8	60S acidic ribosomal protein P2	<i>RPLP2</i>
A0A1D5PN46	Fructose-bisphosphatase	<i>FBP2</i>
A0A1D5PPF8	Heat shock 70kDa protein 4	<i>HSPA4</i>
A0A1D5PG30	Elongation factor 1-delta isoform	<i>EEF1D</i>
F1NHW5	Cytochrome b-c1 complex subunit 6	<i>UQCRH</i>
E1BVU4	SH3 domain-binding glutamic acid-rich-like protein	<i>SH3BGR</i>
F1NCA2	Glycerol-3-phosphate dehydrogenase	<i>GPD2</i>
F1NY09	Uncharacterized protein	<i>C1H11ORF54</i>
P07630	Carbonic anhydrase 2	<i>CA2</i>

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