### A.

![Diagram of Nesprin-2 protein structure with primers and isoforms indicated.]

### B.

#### Nesprin-2 Multiple Tissue PCR Primers

<table>
<thead>
<tr>
<th>Isoform</th>
<th>Primer</th>
<th>Sequence 5'-3'</th>
<th>Position 5'-3'</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD</td>
<td>CHD-f</td>
<td>TCAAAGAATGGCATCTAGTCCTGAG</td>
<td>194-218</td>
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<tr>
<td></td>
<td>CHD-r</td>
<td>ATTGTCAAAAGTGGGCTGATCCTG</td>
<td>2252-2229</td>
</tr>
<tr>
<td>KLS</td>
<td>KLS-f</td>
<td>CGGAGGCAGAAGGCTCATGTCACCAGTC</td>
<td>20244-20271</td>
</tr>
<tr>
<td></td>
<td>KLS-r</td>
<td>TGTGGGGGTTGCCCACCATTGTT</td>
<td>20852-20832</td>
</tr>
<tr>
<td>ΔTM</td>
<td>ΔTM-f</td>
<td>CGGAGGCAGAAGGCTCATGTCACCACGT</td>
<td>20244-20271</td>
</tr>
<tr>
<td></td>
<td>ΔTM-r</td>
<td>GAGTGTGAGAGGAAGTCAATGCAACTGG</td>
<td>20298-20325</td>
</tr>
<tr>
<td>2α₁</td>
<td>2α₁-f</td>
<td>GCAGAAGCCTATGAGTTGATTATTCTA</td>
<td>1-28</td>
</tr>
<tr>
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<td>2α₁-r</td>
<td>TGTGGGGGTTGCCCATTGTT</td>
<td>1760-1740</td>
</tr>
<tr>
<td>2α₂</td>
<td>2α₂-f</td>
<td>GACAGCCCTTCTCTGGCCAGCATCATC</td>
<td>855-882</td>
</tr>
<tr>
<td></td>
<td>2α₂-r</td>
<td>TGTGGGGGTTGCCCATTGTT</td>
<td>2177-2157</td>
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<tr>
<td>2β₂</td>
<td>2β₂-f</td>
<td>AGGGGATGGCATTGTGTTAAG</td>
<td>67-86</td>
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<td>2β₂-r</td>
<td>TGTGGGGGTTGCCCATTGTT</td>
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<tr>
<td>2α₂ΔTM</td>
<td>2α₂ΔTMT-f</td>
<td>GACAGCCCTTCTCTGGCCAGCATCATC</td>
<td>855-882</td>
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<tr>
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<td>2α₂ΔTMT-r</td>
<td>TTAATAGGGCCAACGTTG G G TTCAG</td>
<td>2140-2113</td>
</tr>
</tbody>
</table>
Supplementary Figure: Nesprin-2 isoform expression.

A. Diagram showing the relative positions of the primers used to define the isoform expression patterns of nesprin-2 in different tissues. Grey bars show common coding sequence with red bars showing sequences exclusive to the 5’ and 3’ UTRs of specific isoforms. Primer sequences used are shown in B. Nucleotides correspond to position in each isoform sequence. Isoform sequences are deposited in the genbank database.

C. Representative ethidium bromide stained gels showing expression of nesprin-2 isoforms (generated using isoform specific primers and RT-PCR) in a number of human tissues. Note the muscle specificity of isoforms designated 2α₁ and 2α₂ΔTM.