



**C**

**Amino acid conservation**

Species	Identity (%)*	Length (aa)
<i>H. sapiens</i>		256
<i>P. troglodytes</i>	99	256
<i>B. taurus</i>	74	256
<i>M. musculus</i>	73	249
<i>G. gallus</i>	61	254
<i>X. tropicalis</i>	51	212
<i>D. rerio</i>	55	365

\* by BLASTp

### S4 Fig. *C21orf2* is highly conserved among diverse species.

(A) ClustalX 2.1 multiple sequence alignment. There are 2 conserved regions: N-terminal region (red box) and C-terminal region (green box). Black bar: predicted mitochondria localization signal. There are two tandem LRR<sub>4</sub> domains (blue bars) followed by an LRRcap domain (brown bar). Arrow heads: position of missense mutations. (B) A schematic structure of human *C21orf2* protein. (C) Amino acid conservation among different species.