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Title: Role of Ubiquitin like protein Ubl-5 (HUB1) in Caenorhabditis elegans

Authors: V., Ane Nishitha (/jspui/browse?type=author&value=V.%2C+Ane+Nishitha)

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Abstract: Hub1, the non-canonical ubiquitin like protein is involved in alternative splicing of genes by interacting with the HIND (Hub-1 interacting Domain) containing proteins. In multicellular organisms, the pre-mRNA targets that require Hub1 for splicing are not yet known. Here in the multicellular nematode *C. elegans*, we report that Hub1 is required for the efficient splicing of the gene *tos-1* (target of splicing). In *C. elegans* there are two putative proteins Prp38 and Snu66 that harbor HIND like sequence. However, the HIND of Prp-38 did not interact with Hub1 in yeast two hybrid assay. Additionally in *C. elegans*, Hub1 shows temporal expression during the development of the worm and is also essential for viability. Thus Hub1 role in RNA splicing seems to be conserved in this multicellular organism.

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