CEMORANGE2 GENE FUSIONS FOR SUBCELLULAR IMAGING IN C. ELEGANS

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Plasmids were generated with the NHX-2 promoter, to restrict gene expression to the C. elegans intestinal cells, driving C. elegans genes or targeting peptides, known to target different subcellular organelles, fused to a C. elegans optimized mOrange2 fluorescent protein (CemOrange2). These expression constructs were then injected into wild-type C. elegans to generate transgenic lines for studying protein trafficking, colocalization studies and complex biological questions in the context of a whole organism.

Publication: CemOrange2 fusions facilitate multifluorophore subcellular imaging in *C. elegans*