

Abstract

The present invention provides a tool which exhibits excellent properties in the quantification of autophagy activity. A unimolecular FRET probe of the present invention includes an acceptor consisting of a fluorescent protein to be enzymatically degraded inside a lysosome or a vacuole; and a donor having an amino acid sequence having a sequence identity of 95% or more with respect to an amino acid sequence represented by SEQ ID NO: 1.