



SHANGHAI GENOMICS

## Recombinant Human Ubc12

**rHuUbc12**

Catalog number: SG3131-08

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### *Specifications and Use*

- Source** ● *Escherichia coli*.
- Molecular Mass** ● 25kDa
- Purity** ● ≥ 90% as determined by SDS-PAGE and HPLC analyses.
- Formulation** ● 1 × PBS, 1 mM DTT and 10 % glycerol, pH7.4.
- Stability** ● Store at -80°C. Avoid repeated freeze-thaw cycles.
- Usage** ● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.

### **Human Ubc12**

NEDDylation requires the coordinated activities of UbcH12 and the APP-BPI/Uba3 activating enzyme. This E2 enzyme mediates the covalent conjugation of the ubiquitin-like protein Nedd8 to a limited number of cellular proteins such as Cdc53/Cul1 and other members of the Cullin family (which are structural subunits of the Skp1-based and elongin B/C-based families of ubiquitin protein ligases). The NEDD8 pathway is essential for cell viability in fission yeast, and in mammalian cells it is essential for cell cycle progression and morphogenesis.

#### **Protein Sequence:**

MSYYHHHHHDYDIPTTENLYFQGAMDPEFRIWMIKLFSLKQQKKEEESAGGTKGSSKKASAAQL  
RIQKDINELNLPKTCDISFSDPDDLNFKLVICPDEGFYKSGKFVFSFKVGGYPHDPKVKCETMV  
YHPNIDLEGNVCLNILREDWKPVLINSIIYGLQYLFLEPNPEDPLNKEAAEVLQNNRRLFEQNVQRS  
MRGGYIGSTYFERCLK