

## Stable Human Embryonic Kidney 293 Cells Expressing Rpn11-Htbh

Tech ID: 22352 / UC Case 2012-323-0

### BRIEF DESCRIPTION

The 26S proteasome is the macromolecular machine of the ubiquitin proteasome-dependent degradation pathway that is responsible for most of the nonlysosomal protein degradation in both the nucleus and cytosol. It is involved in many important biological processes such as cell cycle progression, apoptosis, and DNA repair. Human proteasome complexes are conventionally purified by ultracentrifugation and multiple chromatographic techniques, which are time consuming and require a lot of materials. A strategy that allows for fast and effective purification of human proteasomes will be an important research tool.

Researchers at the University of California, Irvine have developed a new affinity purification strategy for rapid and effective isolation of the human 26S proteasome. The 293 cell line is robust and can stably express Rpn11-HTBH. It is a cell line that allows the affinity purification of the human 26S proteasome under both native and denaturing conditions. It allows the purification of the human 26S proteasome complex after in vivo cross-linking.

### SUGGESTED USES

The cell line may be used as a fast, effective, and robust method for purification of the human 26S proteasome complex.

### ADVANTAGES

The 293 cell line is robust and can stably express Rpn11-HTBH. It allows the affinity purification of the human 26S proteasome under both native and denaturing conditions. It allows the purification of the human 26S proteasome complex after in vivo cross-linking.

### CONTACT

Patricia H. Chan  
patricia.chan@uci.edu  
tel: 949-824-6821.



### OTHER INFORMATION

#### KEYWORDS

Rpn11-HTBH, Proteasome, Plasmid, Cell line, Purification

#### CATEGORIZED AS

- » **Biotechnology**
- » Proteomics
- » **Medical**
- » Research Tools
- » **Research Tools**
- » Cell Lines
- » Expression System
- » Nucleic Acids/DNA/RNA

#### RELATED CASES

**UCI** Beall  
Applied Innovation

5270 California Avenue / Irvine, CA  
92697-7700 / Tel: 949.824.2683



© 2012, The Regents of the University of  
California  
[Terms of use](#)  
[Privacy Notice](#)