

## *Division of Signal Transduction Therapy*

### **Standard Operation Procedure**

#### **Preparation of His-UBE2C**

**Enzyme description:-** His-UBE2C = UbcH10 1-179 (full length)

**Clone number:-** DU32146

**Source:-** human recombinant

**Tag:-** N-terminal His<sub>6</sub>-tag

**Purification method:-** Ni<sup>++</sup>-NTA-Sepharose

**Expression system:-** E.coli

**Calculated molecular mass:-**

Monoisotopic 21985 Da

Average Mass 21998 Da

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 7.3

**Purity:-** 90%

**Enzyme storage buffer:-**

50mM HEPES pH 7.5, 150mM NaCl, 10% glycerol, 1mM DTT

**Storage temperature:-** -80°C

**Assay:-**

Loading with Ubiquitin and UBE1 in the presence of Mg-ATP

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**Clone Data Sheet**

**His-UBE2C**

<b><u>Protein</u></b>	His-UBE2C 1-179 (full length)
<b><u>Synonyms</u></b>	UbcH10
<b><u>Clone Number</u></b>	DU32146
<b><u>Species</u></b>	Human
<b><u>Accession Number</u></b>	Protein: NP_009850
<b><u>Tags</u></b>	N-terminal His <sub>6</sub> tag
Aminoacid sequence of the expressed protein	<b>MGSSHHHHHSSGLEVLFGPGSMASQNRDPAATSVAAARKGAEPSG GAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAG TVYEDLRYKLSLEFPSGYPNAPTvkFLTPCYHPNVDTQGNICLDIL KEKWSALYDVRTILLSIQSLLGEPNIDSPLNTHAAELWKNPTAFKKY LQETYSKQVTSQEP</b>
Native sequence	
Protease cleavage	Prescission site underlined
Cloning sites	BamH1 / Not1
<b><u>DNA sequence of insert</u></b>	<b>GGATCCATGGCTTCCCAAACCGCGACCCAGCCGCGCCACTAGCGTCGC CGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCCGGGGTC CGGTGGGCAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGTCT GGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAA ATGGGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACC TGAGGTATAAGCTCTCGCTAGAGTTCCTCAGTGGCTACCCTTACAAT GCGCCACAGTGAAGTTCCTCACGCCCTGCTATCACCCCAACGTGGA CACCCAGGGTAACATATGCCTGGACATCCTGAAGGAAAAGTGGTCTG CCCTGTATGATGTCAGGACCATTTCTGCTCTCCATCCAGAGCCTTCTA GGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCT CTGGAAAAACCCACAGCTTTTAAGAAGTACCTGCAAGAAACCTACT CAAAGCAGGTCACCAGCCAGGAGCCCTGAGCGGCCGC</b>