*Division of Signal Transduction Therapy*

# Standard Operation Procedure

# Preparation of UBE2E1

**Enzyme description:-** UBE2E1 1-193 (full length)

**Clone number:-** DU12803

**Source:-** human recombinant

**Tag:-** cleaved from N-terminal $His_6$-tag

**Purification method:-** $Ni^{++}$-NTA-Sepharose, protease treatment

**Expression system:-** E.coli

**Calculated molecular mass:-**

| | |
|---|---|
| Monoisotopic | 22858 Da |
| Average Mass | 22872 Da |

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 9.07

**Purity:-** 90%

**Enzyme storage buffer:-**

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

**Storage temperature:-** -80ºC

**Assay:-**

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

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## Clone Data Sheet

## UBE2E1

| | |
|---|---|
| **Protein** | UBE2E1 1-193 (full length) |
| **Synonyms** | UbcH6, E2E1 |
| **Clone Number** | DU12803 |
| **Species** | Human |
| **Accession Number** | Protein: NP_003332 |
| **Tags** | N-terminal $His_6$ tag |
| Aminoacid sequence of the expressed protein | GPGSPEFPGVDSKAAA**MSDDDSRASTSSSSSSSNQQTEKETNTPKKKE SKVSMSKNSKLLSTSAKRIQKELADITLDPPPNCSAGPKGDNIYEWRST ILGPPGSVYEGGVFFLDITFTPEYPFKPPKVTFRTRIYHCNINSQGVIC LDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIATQYMTNRAEH DRMARQWTKRYAT** |
| Native sequence | in bold |
| Protease cleavage | Prescission Protease site underlined |
| Cloning sites | Not1 |

**DNA sequence of insert**

```
GCGGCCGCGATGTCGGATGACGATTCGAGGGCCAGCACCAGCTCCTCCTC
ATCTTCGTCTTCCAACCAGCAAACCGAGAAAGAAACAAACACCCCCAAGA
AGAAGGAGAGTAAAGTCAGCATGAGCAAAAACTCCAAACTCCTCTCCACC
AGCGCCAAGAGAATTCAGAAGGAGCTGGCGGACATCACTTTAGACCCTCC
ACCTAATTGCAGTGCTGGTCCCAAAGGCGATAACATCTATGAATGGAGAT
CAACCATTCTAGGGCCTCCAGGATCCGTGTATGAGGGTGGTGTATTCTTT
CTCGATATCACTTTTACACCAGAATATCCCTTCAAGCCTCCAAAGGTTAC
ATTTCGGACAAGAATCTATCATTGTAATATTAACAGTCAAGGTGTTATTT
GCTTGGACATATTGAAAGATAATTGGAGTCCAGCACTAACCATTTCTAAA
GTCCTCCTTTCTATCTGCTCACTTCTTACAGACTGTAATCCTGCCGACCC
CTTGGTGGGAAGTATTGCCACTCAGTATATGACCAACAGAGCAGAACATG
ACAGAATGGCCAGACAGTGGACCAAGAGATACGCTACATAAGCGGCCGC
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