

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2D2

Enzyme description:- His-UBE2D2 2-147 (end)

Clone number:- DU20184

Source:- human recombinant

Tag:- N-terminal His₆-tag

Purification method:- Ni⁺⁺-NTA-Sepharose

Expression level:- E.coli

Calculated molecular mass:-

Monoisotopic 19772 Da
Average Mass 19784Da
[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 9.13

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-UBE2D2

<u>Protein</u>	His-UBE2D2 2-147 (end)
<u>Synonyms</u>	UbcH5b, E2D2
<u>Clone Number</u>	DU20184
<u>Species</u>	Human
<u>Accession Number</u>	Protein: P62837 DNA: NM_003339
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	HHHHHSSGLVPRGSHMASMTGGQOMGRGSALKRIHKELNDLARDPPAQC SAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFTT RIYHPNINSNGSICLDILRSQWSPALTIKVLISICSLLCDPNPDDPLVP EIARIYKTDREKYNRIAREWTQKYAM
Native sequence	Start Methionine is missing
Protease cleavage	Thrombin site underlined
Cloning sites	BamH1 / Not1
<u>DNA sequence of insert</u>	<u>GGATCCGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGGCACGGGA</u> CCCTCCAGCACAGTGTTTCAGCAGGTCCTGTTGGAGATGATATGTTCCATT GGCAAGCTACAATAATGGGGCCAAATGACAGTCCCTATCAGGGTGGAGTA TTTTTCTTGACAATTCATTTCCCAACAGATTACCCCTTCAAACCACCTAA GGTTGCATTTACAACAAGAATTTATCATCCAAATATTAACAGTAATGGCA GCATTTGTCTTGATATTCTACGATCACAGTGGTCTCCAGCACTAACTATT TCAAAGTACTCTTGTCATCTGTTCTCTGTTGTGTGATCCCAATCCAGA TGATCCTTTAGTGCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAA AGTACAACAGAAATAGCTCGGGAATGGACTCAGAAGTATGCGATGTAAGCG <u>GCCGC</u>