Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of UBE2G2

Enzyme description:- UBE2G2

Clone number:- DU20174

Source:- BL21 recombinant

Tag:- cleaved from N-terminal His_6-tag

Purification method:- Ni^{++}-NTA-Sepharose, Thrombin treatment

Expression level:- 3mg/L

Calculated molecular mass:-

Monoisotopic	20083 Da
Average Mass	20096 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.67

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80ºC

Assay:-

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

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Clone Data Sheet

UBE2G2

Protein	UBE2G2
Synonyms	
Clone Number	DU20174
Species	Human
Accession Number	Protein: NP_003334 DNA: NM_003343
Tags	N-terminal His_6 tag (cleaved)
Aminoacid sequence of the expressed protein	GSHMASMTGGQQ**MGRGSAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFE WEALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTCEMFHPNIYPDGRV CISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDA SKMWRDDREQFYKIAKQIVQKSLGL**
Native sequence	in bold
Protease cleavage	Thrombin site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert

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GGATCCGCGGGGACCGCGCTCAAGAGGCTGATGGCCGAGTACAAACAATT
AACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGA
ACTTTTTTGAATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTT
GAGTTTGGTGTTTTTCCTGCCATCCTGAGTTTCCCACTTGATTACCCGTT
AAGTCCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCT
ACCCTGATGGGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGAC
CCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCCTGTGCAGAGTGT
GGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACG
AAAGTGGAGCTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAG
CAGTTCTATAAGATTGCCAAGCAGATCGTCCAGAAGTCTCTGGGACTGTG
AGCGGCCGC
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