Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of UBE2G1

Enzyme description:- UBE2G1

Clone number:- DU14054

Source:- BL21 recombinant

Tag:- cleaved from N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression level:- 10mg/L

Calculated molecular mass:-

Monoisotopic	19908 Da
Average Mass	19920 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.14

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

UBE2G1

Protein	UBE2G1
Synonyms	Ubc7, UBE2G
Clone Number	DU14054
Species	Human
Accession Number	Protein: P62253 DNA: NM_003342
Tags	N-terminal GST-tag (cleaved)
Aminoacid sequence of the expressed protein	GPLGS**MTELQSALLLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPD TLYEGGVFKAHLTFPKDYPLRPPKMKFITEIWHPNVDKNGDVCISILHEPGE DKYGYEKPEERWLPIHTVETIMISVISMLADPDGNSPANVDAAKEWREDRNG EFKRKVARCVRKSQETAFE**
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert

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GGATCCATGACGGAGCTGCAGTCGGCACTGCTACTGCGAAGACAGCTGGC
AGAACTCAACAAAAATCCAGTGGAAGGCTTTTCTGCAGGTTTAATAGATG
ACAATGATCTCTACCGATGGGAAGTCCTTATTATTGGCCCTCCAGATACA
CTTTATGAAGGTGGTGTTTTTAAGGCTCATCTTACTTTCCCAAAAGATTA
TCCCCTCCGACCTCCTAAAATGAAATTCATTACAGAAATCTGGCACCCAA
ATGTTGATAAAAATGGTGATGTGTGCATTTCTATTCTTCATGAGCCTGGG
GAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGCTCCCTATCCA
CACTGTGGAAACCATCATGATTAGTGTCATTTCTATGCTGGCAGACCCTA
ATGGAGACTCACCTGCTAATGTTGATGCTGCGAAAGAATGGAGGGAAGAT
AGAAATGGAGAATTTAAAAGAAAAGTTGCCCGCTGTGTAAGAAAAAGCCA
AGAGACTGCTTTTGAGTGAGCGGCCGC
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