Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2J2 1-226

Enzyme description:- His-UBE2J2 1-226

Clone number:- DU20695

Source:- BL21 recombinant

Tag:- N-terminal His_6-tag

Purification method:- Ni^{++}-NTA-Sepharose

Expression level:- 10mg/L

Calculated molecular mass:-

Monoisotopic	28968 Da
Average Mass	28986 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 9.25

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

His-UBE2J2 1-226

Protein	UBE2J2 1-226
Synonyms	NCUBE2, PRO2121
Clone Number	DU20695
Species	Human
Accession Number	Protein: NP_919296 DNA: NM_194315
Tags	N-terminal His_6 tag
Aminoacid sequence of the expressed protein	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGS**MSSTSSKRAPTTATQR LKQDYLRIKKDPVPYICAEPLPSNILEWHYVVRGPEMTPYEGGYYHGKLI FPREFPFKPPSIYMITPNGRFKCNTRLCLSITDFHPDTWNPAWSVSTILT GLLSFMVEKGPTLGSIETSDFTKRQLAVQSLAFNLKDKVFCELFPEVVEE IKQKQKAQDELSSRPQTLPLPDVVPDGETHLVQNGIQLLNGHAPGAVPNL AGLQQANRHH**
Native sequence	in bold, missing the C-terminal transmembrane domain.
Protease cleavage	Thrombin site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert

GGATCCATGAGCAGCACCAGCAGTAAGAGGGCTCCGACCACGGCAACCCA
GAGGCTGAAGCAGGACTACCTTCGCATTAAGAAAGACCCGGTGCCTTACA
TCTGTGCCGAGCCCCTCCCTTCGAATATTCTCGAGTGGCACTATGTCGTC
CGAGGCCCAGAGATGACCCCTTATGAAGGTGGCTATTATCATGGAAAACT
AATTTTTCCCAGAGAATTTCCTTTCAAACCTCCCAGTATCTATATGATCA
CTCCCAACGGGAGGTTTAAGTGCAACACCAGGCTGTGTCTTTCTATCACG
GATTTCCACCCGGACACGTGGAACCCGGCCTGGTCTGTCTCCACCATCCT
GACTGGGCTCCTGAGCTTCATGGTGGAGAAGGGCCCCACCCTGGGCAGTA
TAGAGACGTCGGACTTCACGAAAAGACAACTGGCAGTGCAGAGTTTAGCA
TTTAATTTGAAAGATAAAGTCTTTTGTGAATTATTTCCTGAAGTCGTGGA
GGAGATTAAACAAAAACAGAAAGCACAAGACGAACTCAGTAGCAGACCCC
AGACTCTCCCCTTGCCAGACGTGGTTCCAGACGGGGAGACGCACCTCGTC
CAGAACGGGATTCAGCTGCTCAACGGGCATGCGCCGGGGGCCGTCCCAAA
CCTCGCAGGGCTCCAGCAGGCCAACCGGCACCAC*TGA*GCGGCCGC