Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2V2

Enzyme description:- UBE2V2 (1-145) full length

Clone number:- DU11887

Source:- human recombinant

Tag:- N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression system:- *E.coli*

Calculated molecular mass:-

Monoisotopic	43158 Da
Average Mass	43186 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.09

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80ºC

Assay:-

Production of free K63 linked Ub-chains with Ubiquitin, UBE1 and UBE2N in the presence of Mg-ATP
Assay buffer: 50mM HEPES, pH 7.5, 1mM DTT

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Clone Data Sheet

GST-UBE2V2

Protein	GST-UBE2V2 (1-145) (full length)
Synonyms	UEV2, MMS-2
Clone Number	DU11887
Species	Human
Accession Number	Protein: NP_003341 DNA: NM_003350
Tags	N-terminal GST-tag
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIA WPLQGWQATFGGGDHPPKSDLEVLFQGPLGS**MAVSTGVKVPRNFRLLEEL EEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLKVEC GPKYPEAPPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVL QELRRLMMSKENMKLPQPPEGQTYNN**
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BamH1 / Not1

DNA sequence of insert	GGATCCATGGCGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTT GTTGGAAGAACTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTA GCTGGGGCCTTGAAGATGATGAAGATATGACACTTACAAGGTGGACAGGC ATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCT GAAAGTAGAATGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGAT TTGTAACAAAAATTAATATGAACGGAATAAATAATTCCAGTGGGATGGTG GATGCCCGGAGCATACCAGTGTTAGCAAAATGGCAAAATTCATATAGCAT TAAAGTTGTACTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATA TGAAGCTTCCACAGCCACCAGAAGGACAAACATACAACAATTAAGCGGCC GC