

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2V2

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

Clone number:- DU12415

Source:- BL21 recombinant

Tag:- N-terminal His₆-tag

Purification method:- Ni⁺⁺-NTA-Sepharose

Expression level:- 6mg/L

Calculated molecular mass:-

Monoisotopic 18795 Da

Average Mass 18807 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 7.7

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

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

Division of Signal Transduction Therapy

Clone Data Sheet

His-UBE2V2

Protein UBE2V2
Synonyms UEV2, MMS-2
Clone Number DU12415
Species Human
Accession Number Protein: NP_003341 DNA: NM_003350

Tags N-terminal His₆ tag

Aminoacid sequence of the expressed protein **MGSSHHHHHSSGLEVLFOGPGSM**AVSTGVK**VPRN**FRLL**EELEEG**QKGVG**
DGTVSWG**LEDE**DM**TLTR**WT**GMI**IG**PPRT**NYEN**RI**Y**SLK**VECG**PKY**PEAP
PSVRF**VT**KIN**MNG**IN**SSG**MVDARS**I**P**V**LAK**WQ**NS**YS**IK**VVL**Q**EL**RL**MM**
SKENM**KLP**Q**P**PE**GQ**TY**NN****

Native sequence in bold

Protease cleavage Prescission site underlined

Cloning sites BamH1 / NotI

DNA sequence of insert GGATCCATGGCGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTT
GTTGGAAGAACTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTA
GCTGGGGCCTTGAAGATGATGAAGATATGACACTTACAAGGTGGACAGGC
ATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCT
GAAAGTAGAATGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGAT
TTGTAACAAAAATTAATATGAACGGAATAAATAATTCCAGTGGGATGGTG
GATGCCCGGAGCATAACCAGTGTTAGCAAATGGCAAATTCATATAGCAT
TAAAGTTGTA**CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATA**
TGAAGCTTCCACAGCCACCAGAAGGACAAACATACAACAATTAAGCGGCC
GC