

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2G1

<u>Enzyme description:-</u>	His-UBE2G1
<u>Clone number:-</u>	DU14055
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	N-terminal His ₆ -tag
<u>Purification method:-</u>	Ni ⁺⁺ -NTA-Sepharose
<u>Expression level:-</u>	50mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	23038 Da
Average Mass	23052 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	6.47
<u>Purity:-</u>	90%
<u>Enzyme storage buffer:-</u>	
50mM HEPES pH 7.5, 150mM NaCl, 10% glycerol, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	
Loading with Ubiquitin and UBE1 in the presence of Mg-ATP	

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Clone Data Sheet

His-UBE2G1

<u>Protein</u>	UBE2G1
<u>Synonyms</u>	Ubc7, E2G
<u>Clone Number</u>	DU14055
<u>Species</u>	Human
<u>Accession Number</u>	Protein: P62253 DNA: NM_003342
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	MGSSHHHHHSSGLVPRGSHMASMTGGQ QMGRGSMTELOSALLRRQLAE LNKNPVEGF <u>SAGLIDDNDLYRWEVLI</u> IGPPDTLYEGGVFKAHLTFPKDYP LRPPKMKFITEI WHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLP IHT VETIMISVISMLADPN GDSPANVDA AKEWREDRNGEFKRKVARCVRKSQE TAFE
Native sequence	in bold
Protease cleavage	Thrombin site underlined
Cloning sites	BamH1 / Not1
<u>DNA sequence of insert</u>	GGATCCATGACGGAGCTGCAGTCGGCACTGCTACTGCGAAGACAGCTGGC AGAACTCAACAAAAATCCAGTGGAAAGCTTTTTCTGCAGGTTTAATAGATG ACAATGATCTCTACCGATGGGAAGTCCTTATTATTGGCCCTCCAGATACA CTTTATGAAGGTGGTGTTTTTTAAGGCTCATCTTACTTTCCAAAAGATTA TCCCCTCCGACCTCCTAAAATGAAATTCATTACAGAAATCTGGCACCCAA ATGTTGATAAAAAATGGTGTATGTGTGCATTTCTATTCCTCATGAGCCTGGG GAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGCTCCCTATCCA CACTGTGGAAACCATCATGATTAGTGTGCATTTCTATGCTGGCAGACCCTA ATGGAGACTCACCTGCTAATGTTGATGCTGCGAAAGAATGGAGGGAAGAT AGAAATGGAGAATTTAAAAGAAAAGTTGCCCGCTGTGTAAGAAAAAGCCA AGAGACTGCTTTTGAGTGAGCGGCCGC