

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2G1

<u>Enzyme description:-</u>	GST-UBE2G1
<u>Clone number:-</u>	DU14054
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	N-terminal GST-tag
<u>Purification method:-</u>	GSH-Sepharose
<u>Expression level:-</u>	7mg/L

Calculated molecular mass:-

Monoisotopic	46303 Da
Average Mass	46332 Da
[cysteines reduced, methionines have not been oxidised]	

Theoretical pI:- 5.69

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Loading with Ubiquitin and UBE1 in the presence of Mg-ATP

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Clone Data Sheet

GST-UBE2G1

<u>Protein</u>	UBE2G1
<u>Synonyms</u>	Ubc7, UBE2G
<u>Clone Number</u>	DU14054
<u>Species</u>	Human
<u>Accession Number</u>	Protein: P62253 DNA: NM_003342
<u>Tags</u>	N-terminal GST-tag
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPHYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAESMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLEVLFOGPLGSMTELO <u>SALLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLTFPKDYPLRPKMKFITEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLP</u> IHTVETIMISVISMLADPDGNSPANVDAAKEWREDRNGEFKRKVARCVRKSQETAF E
Native sequence	in bold
Protease cleavage	Precision protease site underlined
Cloning sites	BamH1 / NotI
<u>DNA sequence of insert</u>	GGATCCATGACGGAGCTGCAGTCGGCACTGCTACTGCGAAGACAGCTGGCAGAAGCTCAACAAAAATCCAGTGGAAGGCTTTTCTGCAGGTTTAATAGATGACAATGATCTCTACCGATGGGAAGTCCTTATTATTGGCCCTCCAGATACACTTTATGAAGGTGGTGTTTTTTAAGGCTCATCTTACTTTCCAAAAGATTATCCCTCCGACCTCTAAAATGAAATTCATTACAGAAATCTGGCACCCAAATGTTGATAAAAAATGGTGATGTGTGCATTTCTATCTTCATGAGCCTGGGGAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGCTCCCTATCCCACTGTGGAAACCATCATGATTAGTGTCAATTTCTATGCTGGCAGACCCTAATGGAGACTCACCTGCTAATGTTGATGCTGCGAAAGAATGGAGGGAAGATAGAAATGGAGAATTTAAAAGAAAAGTTGCCCGCTGTGTAAGAAAAAGCCAAGAGACTGCTTTTGAGTGAGCGGCCGC