

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2E2

Enzyme description:- GST-UBE2E2 1-201 (full length)

Clone number:- DU20060

Source:- human recombinant

Tag:- N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression system:- E.coli

Calculated molecular mass:-

Monoisotopic 49047 Da

Average Mass 49078 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.4

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

Division of Signal Transduction Therapy

Clone Data Sheet

GST-UBE2E2

Protein GST-UBE2E2 1-201 (full length)

Synonyms UbcH8, E2E2

Clone Number DU20060

Species Human

Accession Number Protein: NP_689866, Q96LR5

Tags N-terminal GST

Aminoacid sequence of the expressed protein

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGL
EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAESMLEGAVL
DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH
PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA
WPLQGWQATFGGGDHPPKSDLEVLFQGPLGSM**STEAQRVDDSPSTSGGSS**
DGDQRESVQOEPEREQVQPKKKEGKISSKTAAKLSTSAKRIQKELAEITL
DPPPNCSAGPKGDNIYWRSTILGPPGSVYEGGVFFLDITFSPDYPFKPP
KVTFRTRIYHCNINSQGVICLDILKDNWSPALTIISKVLLSICSLLTDCNP
ADPLVGS IATQYMTNRAEHRMARQWTKRYAT

Native sequence in bold

Protease cleavage Precission Protease site underlined

Cloning sites BamH1 / Not1

DNA sequence of insert

GGATCCATGTCCACTGAGGCACAAAGAGTTGATGACAGTCCAAGCACTAG
TGGAGGAAGTTCGATGGAGATCAACGTGAAAGTGTTTCAGCAAGAACCAG
AAAGAGAACAAGTTCAGCCCAAGAAAAGGAGGGAAAAATATCCAGCAAA
ACCGCTGCTAAATTGTCAACTAGTGCTAAAAGAATTCAGAAGGAACTTGC
AGAAATCACATTGGACCCTCCTCCCAACTGTAGTGCTGGACCCAAAGGAG
ACAACATTTATGAATGGAGGTCAACTATATTGGGACCCCCAGGATCTGTC
TATGAAGGAGGGTGTCTTTCTTGACATTACCTTTTCACCAGACTATCC
GTTTAAACCCCTAAGGTACCTTCCGAACAAGAATCTATCACTGTAATA
TTAACAGCCAAGGTGTGATCTGTCTGGACATCTTAAAGGACAACCTGGAGT
CCGGCTTTAACTATTTCTAAAGTTCTCCTCTCCATCTGCTCACTTCTTAC
AGATTGCAACCCTGCTGACCCTCTGGTGGGCAGCATCGCCACACAGTACA
TGACCAACAGAGCAGAGCATGACCGGATGGCCAGACAGTGGACCAAGCGG
TACGCCACATAGCGGCCGC