

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2E1

Enzyme description:- GST-UBE2E1 1-193 (full length)

Clone number:- DU3802

Source:- human recombinant

Tag:- N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression system:- *E.coli*

Calculated molecular mass:-

Monoisotopic 49175 Da

Average Mass 49206 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:-

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

Division of Signal Transduction Therapy

Clone Data Sheet

GST-UBE2E1

<u>Protein</u>	GST-UBE2E1 1-193 (full length)
<u>Synonyms</u>	UbcH6, E2E1
<u>Clone Number</u>	DU3802
<u>Species</u>	Human
<u>Accession Number</u>	Protein: NP_003332
<u>Tags</u>	N-terminal GST-tag
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPPKSD <u>LEVLFQGPLGSPGIPGSTR</u> AAAMS DDDSRA STSSSSSSSSNQTEKETNTPKKKESKVSMSKNSKLLSTSAKRIQKELAD ITLDPPPNC SAGPKGDNIYEW RSTILGPPGSVYEGGVFFLDITFTPEYPF KPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTI SKVLLS ICSL LLTD CNPADPLVGS IATQYMTNRAEHDRMARQWTKRYAT
Native sequence	in bold
Protease cleavage	Prescission Protease site underlined
Cloning sites	NotI
<u>DNA sequence of insert</u>	GCGGCCGCGATGTCGGATGACGATTCGAGGGCCAGCACCAGCTCCTCCTC ATCTTCGTCTTCCAACCAGCAAACCGAGAAAAGAAACAAACACCCCCAAGA AGAAGGAGAGTAAAGTCAGCATGAGCAAAAACTCCAAACTCCTCTCCACC AGCGCCAAGAGAAATTCAGAAGGAGCTGGCGGACATCACTTTAGACCCTCC ACCTAATTGCAGTGCTGGTCCCAAAGGCGATAACATCTATGAATGGAGAT CAACCATTCTAGGGCCTCCAGGATCCGTGTATGAGGGTGGTGTATTCTTT CTCGATATCACTTTTACACCAGAATATCCCTTCAAGCCTCCAAAGGTTAC ATTTCCGACAAGAATCTATCATTTGTAATATTAACAGTCAAGGTGTTATTT GCTTGGACATATTGAAAGATAATTGGAGTCCAGCACTAACCATTTCTAAA GTCCCTCCTTTCTATCTGCTCACTTCTTACAGACTGTAATCCTGCCGACCC CTTGGTGGGAAGTATTGCCACTCAGTATATGACCAACAGAGCAGAACATG ACAGAATGGCCAGACAGTGGACCAAGAGATACGCTACATAAGCGGCCGC