

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2F

Enzyme description:- GST-UBE2F 1-190 (full length)

Clone number:- DU14051

Source:- human recombinant

Tag:- N-terminal GST-tag

Purification method:- GSH-Sepharose

Expression system:- *E.coli*

Calculated molecular mass:-

Monoisotopic 47870 Da

Average Mass 47900 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.25

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Loading assay with NEDD8 and NAE1/NAE2 in the presence of Mg-ATP

Division of Signal Transduction Therapy

Clone Data Sheet

GST-UBE2F

<u>Protein</u>	GST-UBE2F 1-190 (full length)
<u>Synonyms</u>	
<u>Clone Number</u>	DU14051
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q969M7 DNA: NM_080678
<u>Tags</u>	N-terminal GST-tag
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGL EFPNLPYYIDGDVKLTQSMAIRYIADKHNMLGGCPKERAEISMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIA WPLQGWQATFGGGDHPPKSD <u>LEVLFQGPLGSMLTLASKLKRDDGLKGSRT</u> AATASDSTRRVSVRDKLLVKEVAELEANLPCTCKVHFDPNKLHCFQLTV TPDEGY YQGGK FQFETEVPDAYNMVPPKVKCLTKIWHPNITETGEICLSL LREHSIDGTGWAPTRTLKDVVWGLNSLFTDLLNFDDPLNIEAAEHHLRDK EDFRNKVDDYIKRYAR
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BamH1 / Not1
<u>DNA sequence of insert</u>	GGATCCATGCTAACGCTAGCAAGTAAACTGAAGCGTGACGATGGTCTCAA AGGGTCCCAGGACGGCAGCCACAGCGTCCGACTCGACTCGGAGGGTTTCTG TGAGAGACAAATTGCTTGTTAAAGAGGTTGCAGAACTTGAAGCTAATTTA CCTTGTACATGTAAAGTGCATTTTCCTGATCCAAACAAGCTTCATTGTTT TCAGCTAACAGTAACCCAGATGAGGGTTACTACCAGGGTGGAAAATTTT AGTTTGAACTGAAGTTCCCGATGCGTACAACATGGTGCTCCCAAAGTG AAATGCCTGACCAAGATCTGGCACCCCAACATCACAGAGACAGGGGAAAT ATGTCTGAGTTTATTGAGAGAACATTC AATTGATGGCACTGGCTGGGCTC CCACAAGAACATTAAAGGATGTCGTTTGGGGATTAAACTCTTTGTTTACT GATCTTTTGAATTTTATGATGATCCACTGAATATTGAAGCTGCAGAACATCA TTTGCGGGACAAGGAGGACTTCCGGAATAAAGTGGATGACTACATCAAAC GTTATGCCAGATGAGCGGCCGC