

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-UBE2R2

<u>Enzyme description:-</u>	GST-UBE2R2
<u>Clone number:-</u>	DU4616
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	N-terminal GST-tag
<u>Purification method:-</u>	GSH-Sepharose
<u>Expression level:-</u>	3mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	53955 Da
Average Mass	53988 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	4.61
<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

GST-UBE2R2

Protein UBE2R2
Synonyms Ubc3B, Cdc34B
Clone Number DU4616
Species Human
Accession Number Protein: Q712K3 DNA: NM_017811
Tags N-terminal GST-tag

Aminoacid sequence of the expressed protein **MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAESMLEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVLFOGPLGSMAQQQMTSSQKALMLELKS**LQEEPVEGFRITLVDES**DLYNWEVAIFGPPNTLYEGGYFKAHIKFPIDYPYSPPTFRFLTKMWHPNYIENGDVCSILHPPVDDPQSGELPSEWRNPTQNVRTILLSVISLLNEPNTFSPANVDASVMFRKWRDSKGKDKEYAEIRKQVSATKAEAEKDGVKVPTTLAEYCIKTKVPSNDNSSDLLYDDLYDDDDIDDEDEEEEDADCYDDDDSGNEES**

Native sequence in bold
Protease cleavage Prescission site underlined
Cloning sites BamH1 / NotI

DNA sequence of the expression cassette ATGTCCCCTATACTAGGTTATTGGAAAATTAAGGGCCTTGTGCAACCCACTCGACTTCTTTTGAATATCTTGAAGAAAAATATGAAGAGCATTTGTATGAGCGGATGAAGGTGATAAATGGCGAAACAAAAAGTTTGAATTGGGTTTGAGTTTCCCAATCTTCCTTATTATATTGATGGTGATGTTAAATTAACACAGTCTATGGCCATCATACGTTATATAGCTGACAAGCACAAACATGTTGGGTGGTTGTCCAAAAGAGCGTGCAGAGATTTCAATGCTTGAAGGAGCGGTTTTGATATTAGATACGGTGTTCGAGAATTGCATATAGTAAAGACTTTGAAACTCTCAAAGTTGATTTTCTTAGCAAGCTACCTGAAATGCTGAAAAATGTTCTGAAGATCGTTTATGTCATAAAACATATTTAAATGGTGATCATGTAACCCATCCTGACTTCATGTTGTATGACGCTCTTGATGTTGTTTTATACATGGACCCAAATGTGCCTGGATGCGTTCCCAAAATTAGTTTGTTTTAAAAACGTATTGAAGCTATCCCACAAATTGATAAGTACTTGAAATCCAGCAAGTATATAGCATGGCCTTTGCAGGGCTGGCAAGCCACGTTTGGTGGTGGCGACCATCCTCCAAAATCGGATCTGGAAGTTCTGTTCCAGGGGCCCTGGGATCCATGGCCCCAGCAGCAGATGACCAGCTCGCAGAAGGCCCTGATGCTCGAGCTGAAATCCCTGCAGGAGGAACCGGTGGAGGGCTTCCGGATCACCTGGTGGACGAGTCGACCTCTACAACCTGGGAGGTGGCCATCTTCGGACCCCCAACACCCTCTACGAAGGCGGCTACTTCAAGGCGCATATTAAATTTCTATTGACTACCCCTATTCACCACCTACCTTCAGATTCTTGACCAAAATGTGGCACCCCAACAT

TTATGAGAATGGAGATGTATGCATTTTCGATTCTTCATCCGCCTGTAGATG
ACCCACAGAGTGGAGAACTGCCTTCTGAAAGGTGGAATCCTACTCAGAAT
GTGAGGACTATCCTATTAAGTGTAACTCTCACTGCTTAATGAGCCCAACAC
CTTCTCCCCAGCCAATGTCGATGCTTCAGTTATGTTTCAGGAAATGGAGAG
ACAGTAAAGGAAAAGACAAAGAATATGCTGAAATTATTAGGAAACAAGTT
TCAGCCACTAAGGCCGAAGCAGAGAAGGATGGAGTGAAGGTCCCCACAAC
CCTGGCGGAATACTGCATCAAACTAAAGTGCCTTCCAATGACAACAGCT
CAGATTTGCTTTACGACGACTTGTATGATGACGACATTGATGATGAAGAT
GAGGAGGAGGAAGATGCCGACTGTTATGATGATGATGATTCTGGGAATGA
GGAGTCGTGAGCGGCCGC