

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2Q2

<u>Enzyme description:-</u>	His-UBE2Q2
<u>Clone number:-</u>	DU12801
<u>Source:-</u>	BL21 recombinant
<u>Tag:-</u>	N-terminal His ₆ -tag
<u>Purification method:-</u>	Ni ⁺⁺ -NTA-Sepharose
<u>Expression level:-</u>	9 mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	45234 Da
Average Mass	45262 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	5.02
<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

His-UBE2Q2

<u>Protein</u>	UBE2Q2
<u>Synonyms</u>	
<u>Clone Number</u>	DU12801
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q8WVN8 DNA: NM_173469
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	MGSSHHHHHHSSGLEVLFGPGSMSVSGLKAELKFLASIFDKNHERFRIV SWKLDELHCQFLVPQOGSPHSLPPPLTLHCNITESYPSSSPIWFVDS EDP NLTSVLERLEDTKNNLLRQOLKWLICELCSLYNLPKHLDVEMLDQPLPT GQNGTTEEVTSEEEEEEEEMAEDIEDLDHYEMKEEPI SGKKSEDEGIEK ENLAILEKIRKTRQDHLNGAVSGSVQASDRMKELRDIYRSQSYKTGIY SVELINDSLYDWHVKLQKVD PDSPLHSDLQILKEKEGIEYILLNFSFKDN FPFDPPFVRVVL PVLGGYV LGGGALCMELLTKQGWSSAYSIESVIMQIN ATLVK GKARVQFGANKNOYNLARAQQSYNSIVQIHEKNGWYTPPKEDG
Native sequence	in bold
Protease cleavage	Prescission site underlined
Cloning sites	BamH1 / NotI
<u>DNA sequence of the insert</u>	GGATCCATGTCCGTGTCAGGGCTCAAGGCCGAGCTGAAGTTCCTGGCGTC CATCTTCGACAAGAACCACGAGCGATTCCGCATCGTCAGTTGGAAGCTGG ACGAGCTGCACTGCCAGTTCCTGGTGCCGCAGCAGGGCAGCCCGCACTCG CTGCCGCCGCACTCACGCTCCACTGCAACATCACGGAATCCTATCCATC TTCTTACCAGATATGGTTTGTGGATTCTGAAGACCCAAATCTGACATCAG TTCTGGAACGTCTAGAAGATACTAAGAACAACAATTTGCTTCGTCAGCAA TTGAAGTGGTTGATATGTGAACCTGTCAGTTTATATAACCTTCCTAAGCA CCTGGATGTTGAGATGCTAGATCAACCACTACCCACGGGTCAGAATGGGA CAACAGAAGAAGTGACTTCAGAAGAAGAGGAAGAAGAAGAAGAGATGGCT GAAGATATAGAAGACTTAGATCACTATGAGATGAAGGAAGAAGAGCCTAT TAGTGGGAAAAAGTCAGAGGATGAAGGAATTGAAAAAGAAAATTTGGCAA TATTAGAGAAAATTAGGAAGACTCAAAGGCAAGACCATTTAAATGGTGCA GTGTCTGGGTCAGTGCAAGCTTCAGATAGACTTATGAAAGAGCTCAGGGA CATATACAGATCACAGAGTTATAAAACAGGGATTTATTCAGTGGAACTCA TAAATGACAGTTTATATGACTGGCATGTTAAACTGCAGAAGGTTGACCCT GATAGTCCTTTGCACAGTGATCTTCAGATCTTAAAAGAAAAAGAAGGCAT AGAATATATTTTGCCTTAACCTTCTCTTTTAAAGGATAACTTTCCATTTGATC CTCCATTTGTTTCGAGTGGTGTACCTGTTCTCTCAGGAGGGTATGTATTG GGTGGAGGAGCATTATGTATGGAACCTTCTCACAAAACAGGGCTGGAGCAG TGCCACTCAATAGAATCGGTCATCATGCAAATAAATGCCACCTTAGTCA AAGGCAAAGCCAGAGTGCAGTTTGGAGCAAATAAGAATCAATATAATCTA

GCAAGAGCCCAACAATCCTATAATTCCATTGTACAGATACATGAGAAAA
TGGCTGGTACACCCTCCAAAGGAAGATGGCTAAGCGGCCGC