

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of UBQLN2 P506T

<u>Enzyme description:-</u>	UBQLN2 (1-624 = full length) P506T
<u>Clone number:-</u>	DU41041
<u>Source:-</u>	Recombinant
<u>Tag:-</u>	cleaved from N-terminal His-SUMO1
<u>Purification method:-</u>	Ni ⁺⁺ -Sephadex, SENP1 treatment, SEC
<u>Expression level:-</u>	0.5mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	65745
Average Mass	65784
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	5.05
<u>Purity:-</u>	90%
<u>Enzyme storage buffer:-</u>	
50 mM HEPES pH 7.5, 150mM NaCl, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

Protein name UBQLN2 P506T

<u>Protein</u>	His-SUMO1-UBQLN2 1-624 (full length) P506T
<u>Synonyms</u>	Chap1, DSK2 homolog, hPLIC-2
<u>Clone Number</u>	DU41041
<u>Species</u>	human
<u>Accession Number</u>	Q9UHD9
<u>Tags</u>	N-terminal His-SUMO1-
Aminoacid sequence of the expressed protein	MGHHHHHSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFVKVMTTHL KKLKESYCRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQT GGSMAENGESSGPPRPSRGPAAAQGSAAAPAEPKIKVTVKTPKEKEEFAV PENSSVQQFKEAISKRFKSQTDQLVLIFAGKILKDQDTLIQHGIHDGLTVH LVIKSONRPOGQSTQPSNAAGTNTTSASTPRSNSTPISTNSNPFGLGSLGG LAGLSSLGLSSTNFSELOSOMQQQLMASPEMMIQIMENPFVQSMLSNPDLM RQLIMANPQMQLIQRNPEISHLLNNPDIMRQTLEIARNPAMMQEMMRNQD LALSNLESIPGGYNALRRMYTDIQEPMLNAAQEQFGGNPFASVGSSSSSSSE GTQPSRTENRDPLPNWAPPATQSSATTSTTTSTGSGSGNSSSNATGNTV AAANYVASIFSTPGMQSLLQQITENPQLIQNMLSAPYMRSMQSLSONPDL AAQMMLNSPLFTANPQLQEQMRPQLPAFLQMQNPDTLSAMSNPRAMQALM QIQQLQTLATEAPGLIPSFTPGVGVGLGTAIGPVGPVTPIGPIGPIVTF TPIGPIGPIGPTGPAAPPSTGSGGPTGPTVSSAAPSETTSPTSESGPNQQ FIQQMVQALAGANAPQLPNPEVRFQQOLEQLNAMGFLNREANLQAL IATGG DINAAIERLLGSQPS
Native sequence	in bold, additional serine at the N-terminus
Protease cleavage	Cleaved with SENP1 at the C-terminus of SUMO1
Cloning sites	BamH1 / Not1

**DNA sequence of
the expression
cassette**

atgggtcatcatcaccatcaccattctgaccaggaggcaaaaccttcaact
gaggacttgggggataagaaggaaggtgaatatattaactcaaagtcatt
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