

## *Division of Signal Transduction Therapy*

### **Standard Operation Procedure**

#### **Preparation of Ubiquitin [K29wt]**

<b><u>Enzyme description:-</u></b>	Ubiquitin 1-76 [K29wt]
<b><u>Clone number:-</u></b>	DU24369
<b><u>Source:-</u></b>	human recombinant
<b><u>Tag:-</u></b>	no tag
<b><u>Purification method:-</u></b>	Precipitation of contaminants, Source 15 S
<b><u>Expression system:-</u></b>	E.coli
<b><u>Calculated molecular mass:-</u></b>	
Monoisotopic	8727 Da
Average Mass	8732 Da
[cysteines reduced, methionines have not been oxidised]	
<b><u>Theoretical pI:-</u></b>	7.7
<b><u>Purity:-</u></b>	95%
<b><u>Enzyme storage buffer:-</u></b>	H <sub>2</sub> O
<b><u>Storage temperature:-</u></b>	-80°C
<b><u>Assay:-</u></b>	

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**Clone Data Sheet**

**Ubiquitin 1-76 [K29wt]**

<b><u>Protein</u></b>	Ubiquitin 1-76 [K29wt]
<b><u>Synonyms</u></b>	
<b><u>Clone Number</u></b>	DU24369
<b><u>Species</u></b>	Human
<b><u>Accession Number</u></b>	Protein: P62987
<b><u>Tags</u></b>	no tag
Aminoacid sequence of the expressed protein	<b>MQIFVRTLITGRITILEVEPSDTIENVRAKIQDREGIPPDQORLIFAG RQLEDGRTLSDYNIQRESTLHLVLRGG</b>
Native sequence	In mammalian cells Ubiquitin is expressed as a precursor by several genes and cleaved by a DUB to become the mature 76 residue protein Ubiquitin.
Protease cleavage	N/A
Cloning sites	Nde1 / BamHI
<b><u>DNA sequence of insert</u></b>	CATATGCAAATCTTCGTGAGGACCCCTGACTGGTAGGACCATCACTCTCGAAGTGGAG CCGAGTGACACCATTGAGAATGTCAGGGCAAAGATCCAAGACAGGGAAGGCATCCCT CCTGACCAGCAGAGGTTGATCTTTGCTGGGAGACAGCTGGAAGATGGACGCACCCTG TCTGACTACAACATCCAGAGAGAGTCCACCCTGCACCTGGTCCCTCCGTCTCCGAGGT GGGTGATAAGGATCC