

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of FLAG-Ubiquitin

<u>Enzyme description:-</u>	Ubiquitin (1-76 = mature full length)
<u>Clone number:-</u>	DU46789
<u>Source:-</u>	human recombinant
<u>Tag:-</u>	N-terminal FLAG-GG-
<u>Purification method:-</u>	Precipitation of contaminants, Source 15 S
<u>Expression system:-</u>	E.coli
<u>Calculated molecular mass:-</u>	
Monoisotopic	9799 Da
Average Mass	9805 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	5.07
<u>Purity:-</u>	95%
<u>Protein storage buffer:-</u>	
20mM HEPES pH 7.5	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	
Any E3 ligase assay	

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Clone Data Sheet

Ubiquitin 1-76

<u>Protein</u>	Ubiquitin (1-76 = mature full length)
<u>Synonyms</u>	
<u>Clone Number</u>	DU46789
<u>Species</u>	Human
<u>Accession Number</u>	Protein: P62987
<u>Tags</u>	N-terminal FLAG
Aminoacid sequence of the expressed protein	MDYKDDDDKGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRGG
Native sequence	Ubiquitin is expressed as a precursor by several genes and cleaved by USP5 to become mature Ubiquitin (1-76).
Protease cleavage	N/A
Cloning sites	NcoI / NotI
<u>DNA sequence of expression cassette</u>	CCATGGACTACAAGGACGATGACGATAAGGGTGGCATGCAGATCTTCGTGAA GACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATT GAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGC AGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGATGGACGCACCCTGTCTGA CTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTCCTCCGTCTCAGAGGT GGGTGAGCGGCCGC