

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His₆-TUBE UBQL1 536-589 (UBA domain) tetramer = TUBE

Enzyme description:- Ubiquilin 536-589 tetramer

Clone number:- DU20100

Source:- BL21 recombinant

Tag:- N-terminal His₆;

Purification method:- Ni⁺⁺-Sephrose

Expression level:- 15 mg/L

Calculated molecular mass:-

Monoisotopic 27566 Da

Average Mass 27582 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 4.97

Purity:- 90%

Enzyme storage buffer:-

50mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80°C

Assay:-

This protein binds to long K63 poly Ub chains.

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Clone Data Sheet

**His-UBQL1 536-589 tetramer
His-TUBE Tandem Ubiquitin Binding Entity**

<u>Protein</u>	UBQL1 536-589 (UBA-domain) tetramer
<u>Synonyms</u>	UBQL1, DA41, PLIC1
<u>Clone Number</u>	DU20108
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q9UMX0; DNA:NM_053067
<u>Tags</u>	N-terminal His ₆
Aminoacid sequence of the expressed protein	MGSSHHHHHSSG <u>LEVELFOG</u> PGSGGGVNPQ LQNPEVRFQQQLEQLSAMGF LNREANLQAL IATGGDINAA IERLLGSQPS GGGGSGGGVNPQ LQNPEVRF QQQLEQLSAMGF LNREANLQAL IATGGDINAAIERLLGSQPS GGGGSGGGVNPQ LQNPEVRFQQQLEQLSAMGF LNREANLQAL IATGGDINAAIERLLGSQPS GGGGSGGGVNPQ LQNPEVRFQQQLEQLSAMGF LNREANLQAL IATGGDINAAIERLLGSQPS
Native sequence	in bold
Protease cleavage	Pre-scission protease site underlined
Cloning sites	BglIII/BamHI insert (cloned into BamHI site)
<u>DNA sequence of the expression cassette</u>	ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGAAGTTCT GTTCCAGGGGCCCGGATCTGGAGGTGGAGTAAATCCTCAGCTACAGAATC CAGAAGTCAGATTTTCAGCAACAACCTGGAACAACCTCAGTGCAATGGGATTT TTGAACCGTGAAGCAAACCTTGCAAGCTCTAATAGCAACAGGAGGTGATAT CAATGCAGCTATTGAAAGGTTACTGGGCTCCCAGCCATCAGGAGGTGGAG GATCTGGAGGTGGAGTAAATCCTCAGCTACAGAATCCAGAAGTCAGATTT CAGCAACAACCTGGAACAACCTCAGTGCAATGGGATTTTTGAACCGTGAAGC AAACCTTGCAAGCTCTAATAGCAACAGGAGGTGATATCAATGCAGCTATTG AAAGGTTACTGGGCTCCCAGCCATCAGGAGGTGGAGGATCTGGAGGTGGA GTAAATCCTCAGCTACAGAATCCAGAAGTCAGATTTTCAGCAACAACCTGGA ACAACTCAGTGCAATGGGATTTTTGAACCGTGAAGCAAACCTTGCAAGCTC TAATAGCAACAGGAGGTGATATCAATGCAGCTATTGAAAGGTTACTGGGC TCCCAGCCATCAGGAGGTGGAGGATCTGGAGGTGGAGTAAATCCTCAGCT ACAGAATCCAGAAGTCAGATTTTCAGCAACAACCTGGAACAACCTCAGTGCAA TGGGATTTTTGAACCGTGAAGCAAACCTTGCAAGCTCTAATAGCAACAGGA GGTGATATCAATGCAGCTATTGAAAGGTTACTGGGCTCCCAGCCATCATA GGGAGGTGGAGGATCC