

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of OTUD1 270-481

Enzyme description:- His-OTUD1 270-481 (Cat. Domain)

Clone number:- DU25080

Source:- bacteria

Tag:- N-terminal His

Purification method:- Ni⁺⁺-Sephadex

Expression level:- 10 mg/L

Calculated molecular mass:-

Monoisotopic 29701 Da

Average Mass 29718 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.22

Purity:- 90% (but doublet)

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Assay buffer:-

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Clone Data Sheet

OTUD1 270-481 (catalytic domain)

<u>Protein</u>	His-OTUD1 aa 270-481
<u>Synonyms</u>	DUBA7, OTDC1
<u>Clone Number</u>	DU25080
<u>Species</u>	Human
<u>Accession Number</u>	DNA: NM_001145373
<u>Tags</u>	N-terminal His ₆ tag
Amino acid sequence of expressed protein	MGSSHHHHHHSSGLEVL <u>FQGPGSPEFPGVEAPSSAAEPVIVSRSDPRDEKLAL</u> YLA EVEKQDKYLQRNKYRFHIIPDGNCLYRAVSKTVYGDQSLHRELREQTVH YIADHLDHFSPLIEGDVGEFI IAAAQDGAWAGYPELLAMGQMLNVNIHLTTGG RLESPTVSTMIHYLGPEDSLRPSIWLSWLSNGHYDAVFDHSYPNPEYDNWCKQ TQVQRKRDEELAKSMAISLSKMYIEQNACSZLDSKAAADPDPAANKAPKRKVG F
Native sequence	in bold
Protease cleavage	Prescission protease cleavage site underlined
Cloning sites	Xho1/Xho1 into Sal1

<u>DNA sequence of insert</u>	GCCCCGAGTAGTGCGGCGGAGCCGGTGATCGTCTCCAGGTCGGATCCCAGAGA CGAGAAGCTGGCCCTATACCTGGCCGAGGTGGAGAAGCAGGACAAGTATCTGC GGCAGAGGAATAAGTACCGATTCCACATCATTCAGACGGCAACTGCCTCTAC CGAGCTGTCAGCAAGACGGTGTATGGGGACCAGAGCCTGCACCGGGAGTTGAG GGAGCAGACGGTGCACTACATCGCCGACCATCTCGACCACTTCAGCCCCCTGA TTGAGGGCGACGTGGGGGAGTTTATCATCGCTGCTGCCCAAGACGGGGCATGG GCCGGGTACCCGGAGTTGCTGGCCATGGGGCAGATGCTGAATGTGAATATCCA TTTAACTACTGGAGGGAGGCTGGAGAGTCCCACGGTGTCTACCATGATTCATT ATTTGGGCCCAGAGGATTCCCTGAGGCCTAGTATTTGGCTCAGTTGGCTCAGT AACGGACACTATGATGCTGTATTTGATCACTCCTATCCTAACCCAGAGTACGA CAACTGGTGCAAACAACTCAAGTGCAAAGGAAACGCGACGAAGAAGTGGCA AATCTATGGCCATATCCTTGTCTAAAATGTATATTGAACAAAATGCATGCTCT TGA
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